

Introduction

The Business Research Unit of the ISCTE-IUL Business School, BRu-UNIDE, is a scientific research entity accredited by the *Fundação para a Ciência e a Tecnologia of the Ministério da Ciência, Tecnologia e Ensino Superior*. The unit is oriented to multidisciplinary research in finance, management, organizational behavior, human resources, economics, econometrics and econophysics, marketing, accounting, and quantitative methods applied to these subjects.

Since it was set up in 1994, the unit has believed that excellence in research will drive excellence in teaching - a firm belief that is still very much alive today. It is in order to consolidate itself as a top level research unit and to provide IUL with the best business and management education in Portugal, that the unit has progressively altered its structure. Groups have been reorganized and renamed and their scope of investigation narrowed in line with researchers' interests and the unit's research vocation.

The following report is the result of the unit's endeavour to make a comprehensive evaluation of its activity during the years of 2007, 2008, 2009, and 2010. The analysis herein encompasses both the unit as a whole and its eight groups in terms of organization, objectives reached, articles published, projects undertaken, conferences attended, Ph.D.'s supervised, and internationalization activities. The following chapters will respect unit logic adopted in 2010 (the eight groups) and each past and present achievement will be placed within the group in which the responsible researcher is currently affiliated.

In 2010 the unit was relocated closer to other research units, and the office is now bigger and has a capacity to host a larger number of staff and researchers (20) who do not have office space in ISCTE-IUL. That same year brought major changes concerning the organics of the unit: the election and appointment of the Director; the appointment of a new and independent International Scientific Advisory Board; the appointment of an Audit Committee; the creation of eight focused research groups and the appointment of their coordinators.

The next section summarizes all report selected indicators relating the unit as a whole. Aggregated data are given to present a general overview. The subsequent chapters make a more detailed analysis both at a macro (again the unit as research center) and micro (each group) level.

Summary

Over the years under analysis, UNIDE has strived to enhance its standard and produce more focused and noteworthy research that is recognized not only within academic fields, but also by industry and policy-makers. Some organic changes have therefore been made – groups were formed with a narrower scope of investigation (from 5 in 2007 to 8 in 2010) and rules approved for the eligibility of members.

1. Organic Composition

Rules for integrated membership of researchers have been tightened. In 2007 researchers' admission was based on Doctoral Degree and this single fact enabled the unit to seek funding from the F.C.T.. However, in 2010, admission (Ph.D.) and tenure rules (either one ISI or three non-ISI international publications; or Ph.D. concluded in the last three years; or participation in funded research project) were established and only those who comply with these are eligible to be members. Therefore, there is a gap between the total number of researchers (132) and the number eligible for funding (90).

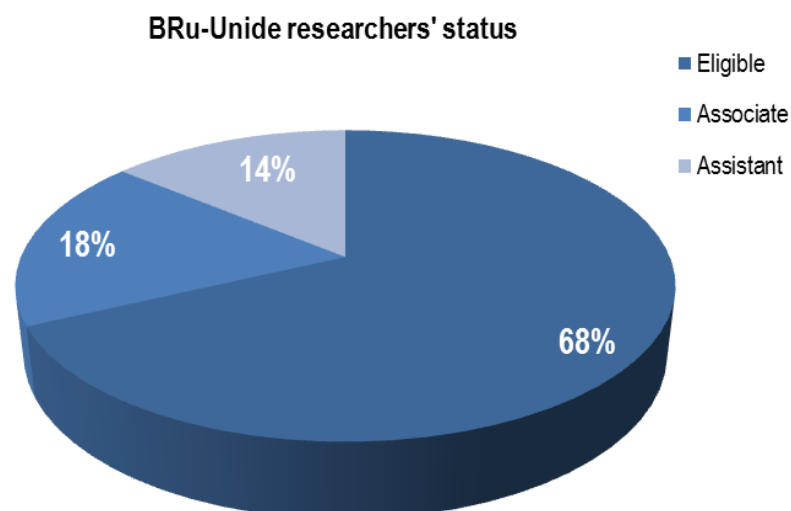


Figure 1 – Status of BRu-unide Researchers.

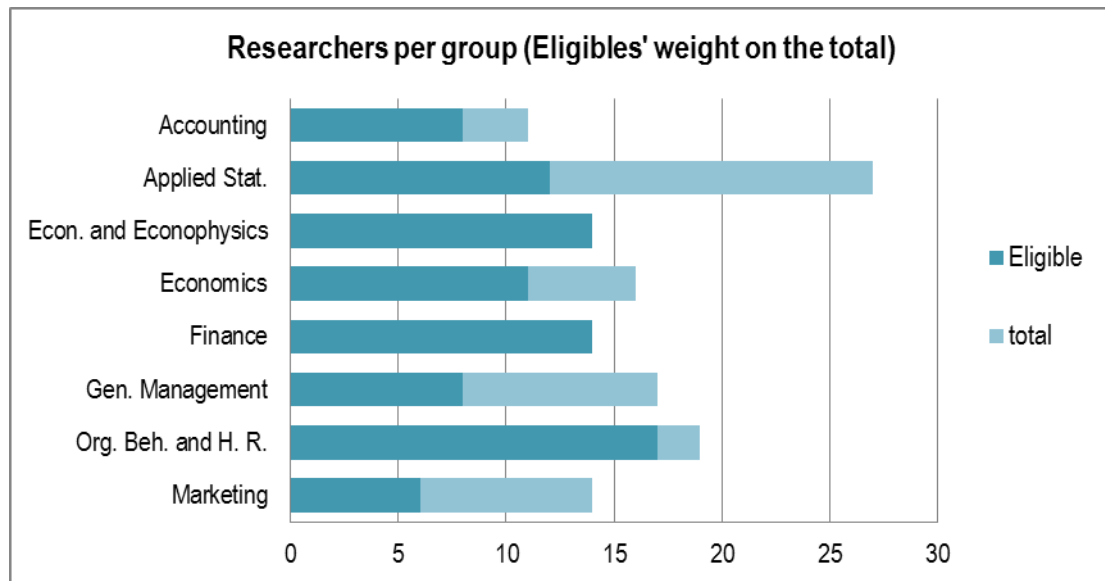


Figure 2 – Researchers per group (eligible researchers in relation to total).

As the graph shows, UNIDE is currently structured into the groups of Accounting; Applied Statistics; Economics; Econometrics and Econophysics; Finance; General Management; Marketing; and Organizational Behavior and Human Resources.

The researchers who form each group belong mainly, but not exclusively, to the Business School faculty. Most have completed their Doctoral and Post-Doctoral studies abroad and have diverse ethnic and geographic origins. The table below provides a detailed description of the background of researchers and is followed by a graph summarizing the information.

	RESEARCHERS FROM OTHER UNIV.		FOREIGNERS:		PH.D.'s CONCLUDED ABROAD	
Accounting	0		1	Turkey	3	Univ. of Lancaster; Manchester Sch. of Acc. and Finan.; Univ. of Texas
Applied Statistics	4	Univ. Porto; Univ. Évora (2 people); E. Sup. Saúde Alcoitão	0		6	Univ. Extremadura (Spain); Univ. of Southampton (2 peop.); Univ. Groningen (Netherlands); Univ. of Manchester; Univ. of Keele (UK)
Econometrics & Econophysics	1	Fac. Psic. Univ. Lisboa	1	UK	3	Univ. of Keele; Pennstate Univ. (USA); Univ. of Birmingham (UK)
Economics	1	ISCAL-IPL; ESCE (Instituto Politécnico de Setúbal)	1	Romania	5	Univ. de Barcelona; MIT-USA; Univ. of Manchester; Univ. of Sussex; Univ. of Oxford

Finance	3	Univ. Carlos III (Spain); ISCAC; I.P. Tomar	4	Italy; Czech Republic; Mozambique	9	Bocconi Univ.; Carnegie Mellon; Univ. of North Carolina; Warwick Univ.; European Univ. Institute (Florence); Univ. of Illinois; Univ. Autònoma de Barcelona; Harvard Univ.; Univ. de Lausanne (Switzerland)
Gen. Management	1	ISCAL-IPL	1	Italy	4	Cranfield Univ.; Univ. College Dublin (Ireland); Bergishen Univ. (Germany); Univ. of Manchester
Org. Behavior and Hum. Res.	0		1	China	3	Tilburg Univ. ; Louvaine La Neuve; Aston Univ.
Marketing	1		1	Bulgaria	6	Warwick Univ.; Hautes Études Commerciales (France); I.A.E. d'AIX Marseilles; Purdue Univ.; Cardiff Univ.; Univ. of Manchester

Figure 3 – Current foreign researchers, those from other Univ., and Ph.D.s concluded abroad.

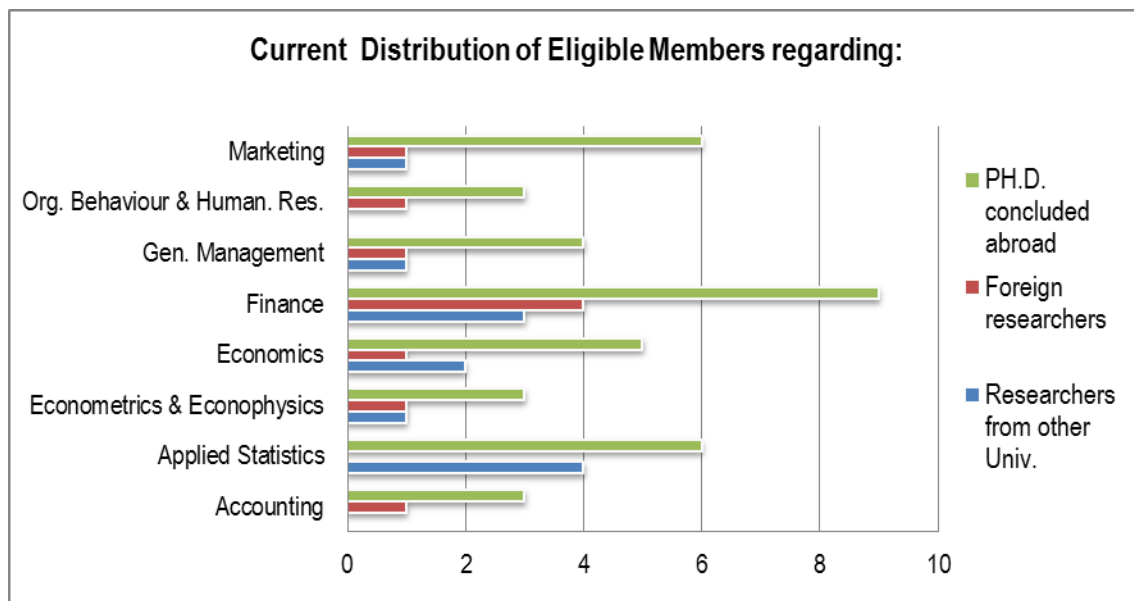


Figure 4 – Graphical distribution of foreign researchers, researchers from other Universities, and Ph.D.s concluded abroad per Group.

2. Research Projects

Regarding research projects funded by the F.C.T., the unit registers twenty-three (23) projects that were active between 2007 and 2010, some submitted before 2007, some concluded during the period under analysis. The following graphic illustrates the distribution of approved funded research projects per year. The subsequent summary board refers to all exhaustively.

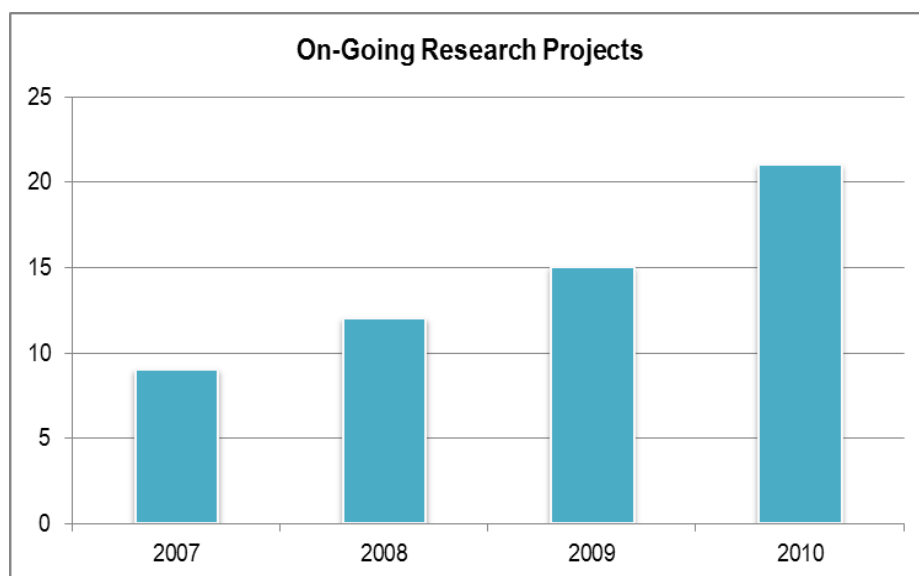


Figure 5 – Distribution of on-going research projects submitted for funding from the F.C.T. from 2007 to 2010.

Project Number	Main Researcher	Title	Amount
PIQS/PSI/50070/2003	Sílvia Silva	"Impactos dos acidentes de trabalho: suas valências ao nível social, organizacional e individual"	74.450,00
PDCT/TRA/58720/2004	João Menezes	"Rail Openshop"	99.792,00
PTDC/PSI/73347/2006	António Caetano	"Análise longitudinal e multi-nível de aspectos micro e macro do comportamento organizacional: bem-estar subjectivo, satisfação no trabalho e no desempenho"	120.000,00
POCI/C/04.01.02/0284/0002/2006	António Caetano	"Factores de Sucesso e Abandono Escolar no Ensino Superior em Portugal: Uma Análise Comparativa"	6.000,00
PTDC/SDE/71193/2006	Sílvia Silva	"Codificação Análise e prevenção de Acidentes de Trabalho"	100.476,00
PTDC/GES/70529/2006	Andreia Basilio (Rui Menezes)	"Exploration of entropy on decision models. Nonlinear dependence, utility and socio-economics welfare analysis"	19.580,00

PTDC/GES/65650/2006	Clara Raposo	"International Corporate Governance and Financial Markets"	198.000,00
PTDC/GES/72859/2006	José Paulo Esperança	"Corporate Governance in Medium Income Countries: the case of Portugal"	163.033,00
PTDC/GES/70167/2006	Luis Lages (Carmen Lages)	"Linking Business-to-Business Relationship Management Inputs with Financial and Objective Outcomes"	73.408,00
PTDC/ECO/68367/2006	Luis Sousa Martins	"New Developments in Cointegration Subject to Structural Changes"	21.000,00
PTDC/GES/72784/2006	Maria de Fátima Salgueiro	"Modeling socio-economic change using longitudinal data"	72.938,00
PTDC/GES/73418/2006	Rui Menezes	"New frontiers in applied quantitative management and finance: nonlinear econometric models, fractional cointegration and econophysics"	63.782,00
PTDC/EGE/ECO/104157/2008	Felipa Dias de Mello Sampayo	"Health and Economic Growth"	29.190,00
PTDC/EGE/ECO/099255/2008	João Pedro Vidal Nunes	"Early exercise decisions under uncertainty and stochastic interest rates"	159.178,00
PTDC/EGE/GES/103223/2008	José Manuel Gonçalves Dias	"Developing and extending regime switching models in finance and accounting"	24.340,00
PTDC/CS-DEM/108033/2008	José Manuel Gonçalves Dias	"Measuring Household Wealth and Living Conditions in Less Developed Countries: a statistical exploration of data from the Demographic and Health Surveys"	23.000,00
PTDC/EAT-HAT/103690/2008	Luís Urbano Oliveira Afonso (Alexandra Fernandes)	"The auction market of ancient and contemporary art in Lisbon and Oporto (2005-2011)"	22.154,00
PTDC/EGE/GES/108997/2008	Ralitzia Nikolaeva	"Investigação da Compra de Produtos Relacionados com Tecnologia nos Países da EU"	64.420,00
PTDC/EGE-ECO/114477/2009	Catarina Roseta Palma	"Pricing and behavioural responses in the water sector"	63.258,00
PTDC/EGE-ECO/114977/2009	Mohamed Azzim Gulamhussen	"Banking: Globalization, Governance and Regulation"	99.980,00
PTDC/EGE-GES/112820/2009	Sofia Correia Brito Ramos	"Performance Persistence and The Smart Money effect in Mutual Funds -International Evidence"	40.000,00
PTDC/EGE-GES/098856/2008	Ana Margarida Passos	"A dimensão temporal da justiça organizacional: os efeitos da perspectiva temporal sobre as percepções e a motivação laboral"	

PTDC/PSI-PTO/102373/2008	Ana Margarida Passos	"Team effectiveness over time and contexts TEoTC"	68.206,00
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Figure 6 – Description of on-going research projects submitted for funding from the F.C.T. from 2007 to 2010: project number, main investigator, title, and amount allocated to research.

3. Publications

One of the unit's greatest achievements is the gradual increase in the quality and quantity of research output. It has grown steadily over the last four years, but most notably in the last year of reference.

In 2007 researchers published 24 articles in ISI indexed journals and 22 in other international peer reviewed. This compares with 41 articles published in ISI indexed journals and 54 in other international peer reviewed in 2010, which clearly demonstrates a remarkable evolution.

Over the last four years, our researchers published an average of 34 articles in ISI indexed journals and 40 in other peer reviewed journals.

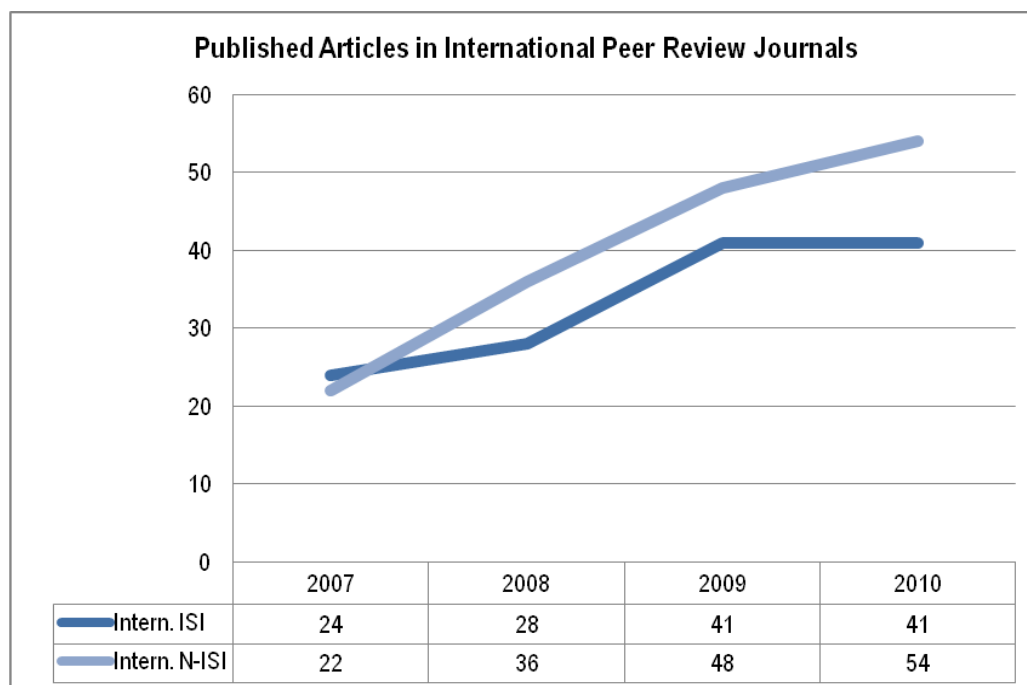


Figure 7 – Evolution of articles published in international journals.

4. Impact of Scientific Production

The impact of the Groups' scientific production is reported using the impartial and meticulous methodology "SJR – cites per doc (2 years)". It is computed using the same formula as journal impact factor TM (Thomson Reuters), an exceedingly prestigious and academically recognized indicator reflecting the average number of citations to articles published in science and social science journals, and therefore used as a proxy for the relative importance of a certain journal within its field. The numbers presented below relate to all publications from 2007 to 2010.

	<u>Average</u> regarding articles w/ SJR	<u>Standard Deviation</u> regarding articles w/ SJR	<u>Total of</u> <u>SJR</u>	<u>Total of</u> <u>published</u> <u>international</u> <u>articles</u>	<u>Number of</u> <u>articles w/</u> <u>SJR</u>
Accounting	0.826	0.678	4.954	15	6
Applied Statistics	1.087	0.459	18.485	32	17
Econometrics and Econoph.	1.094	1.120	28.454	61	26
Economics	1.054	0.878	44.275	59	42
Finance	0.970	0.584	24.257	25	25
General Management	1.209	0.750	32.639	48	27
Org. Behavior and Hum. Res.	1.013	0.479	16.207	34	16
Marketing	1.130	0.688	10.172	20	9
		Total	179.443	294	168

Figure 8 – Table summarizing the impact of Groups' scientific production from 2007 to 2010.

The two right hand columns show that "SJR" is not available for every journal. Indeed, a journal may have an average of citations calculated for one year, but not for the following or previous years. "SJR" is therefore not a fixed indicator but varies from year to year, reflecting the academic community's recognition of the quality of a journal.

The following graph of "SJR" averages and totals per group clearly illustrates the impact of the Groups' scientific production.

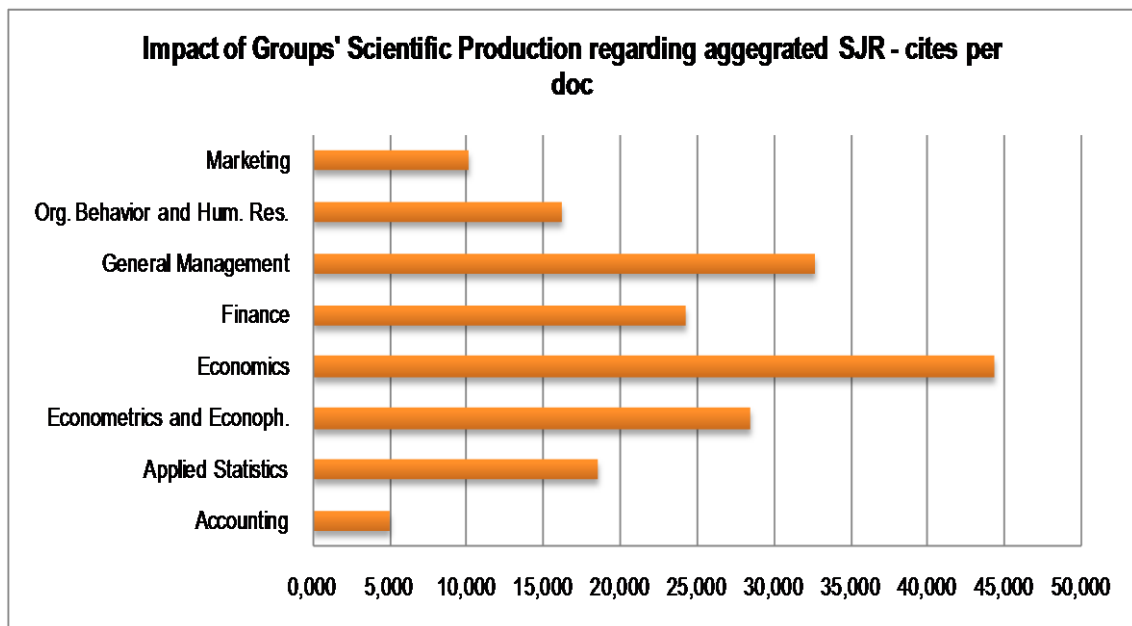


Figure 9 – Impact of groups' scientific production regarding total of SJR.

5. Doctoral Program

Doctoral Programs are vital to the Groups' research life. As described above, the unit firmly believes that excellence in research drives excellence in teaching. Therefore, researchers' commitment to research within the fields of accounting, management, human resources, marketing and finance has led to the dissemination of knowledge. And that willingness and desire to share research findings in line with the highest international standards has attracted the most heterogeneous group of students interested in enrolling a high quality doctoral degree.

Integrated members currently coordinate eight Ph.D. Programs – Accounting; Finance; Operations and Technology Management; Global Management, Strategy and Entrepreneurship; Quantitative Methods; Human Resources Management and Development; and Marketing. These will be analysed in the context of the research groups, regarding both field of study and coordinator responsible. Some Doctoral Programs, namely the Applied Quantitative Methods and the Quantitative Methods for Management, will be further surveyed within the framework of the Applied Statistics Group and the Econometrics and Econophysics Group. And it is so for the fact that there are researchers from both groups coping in these two specific programs.

It is also of vital importance to make note of the organic changes conceived for the Program. Reflecting IUL's self-initiative, the eight Doctoral Programs are now according to the same framework, which means

students must attend six semesters: two devoted to courses and the remaining four to thesis preparation. Although this is a full-time program, it is possible for the student to split lectures over two years, so as to do a part-time schedule. Once prepared, it is preferable to present the thesis as an academic paper. Adjustments were also rooted on researchers' joint collaboration in intellectual knowledge and resource sharing. All students obtain grounded and solid scientific foundations through common courses which are improved by focused courses in line with the students' Program choice.

The following table illustrates the above mentioned standardization process. It reveals all courses that are currently common to more than one Ph.D. Program; it is particularly important to highlight the very close relationship established among the Ph.D. courses of Marketing, Operation and Technology Management, and Organization and Development of Human Resources. Nevertheless, the other three Ph.D. Programs also have courses in common as shown below:

ECTS	MK	GM (GOT + GGEDE)	OBHR (GDRH)	APP./ ECONOMETRICS (MQ)	FIN	ACC	ECONOMICS
6	Research Design I						
6					Microeconomics		Research Seminar in Microeconomics
6	Research Design II						
6	Statistical Methods I						
6	Statistical Methods II						
6				Econometric Methods			Research Seminar in Econometrics
6	Qualit. Data Analysis						
12 (FIN 6+6)	Special. Seminar in (Ph.D. field of studies)				Special. Seminar in Finance I		
					Special. Seminar in Finance II		
6	Free Options						
12	Seminar of scientific develop. in (Ph.D. field of studies)						

Figure 10 – Table summarizing common courses to Ph.D. Programs.

This post-Bologna endeavour to harmonize all Doctoral Programs expresses the Institute's commitment to multidisciplinary studies and high quality teaching. The table and graph below describe the distribution of Ph.D. students admitted and theses concluded per Group and year.

DOCTORAL PROGRAM							
Research Group	Ph.D. Program		2007	2008	2009	2010	Grand Total
Accounting	1.Accounting	Admissions	6	3	8	10	27
		Conclusions	1	1	3	2	7
Applied Statistics/ Econometrics and Econophysics	2.Applied Q.M. 3.Q. M. for Management	Admissions	4	1	2	6	13
		Conclusions	1		2	4	7
Finance	4.Finance	Admissions	3	4	2	7	16
		Conclusions	5	5	3	1	14
General Management	5.Global Manag., Strategy & Entrep./ 6.Operations and Techn. Manag.	Admissions	4	15	21	27	67
		Conclusions	7	8	5	2	22
Organizational Behavior and Human Resources	7.Organiz. and Develop. of HR	Admissions	4	7	8	14	33
		Conclusions	2	1	7	3	13
Marketing	8.Marketing	Admissions	6	6	6	15	33
		Conclusions	3	2	5	5	15

Figure 11 –Admissions and conclusions to the Doctoral Program.

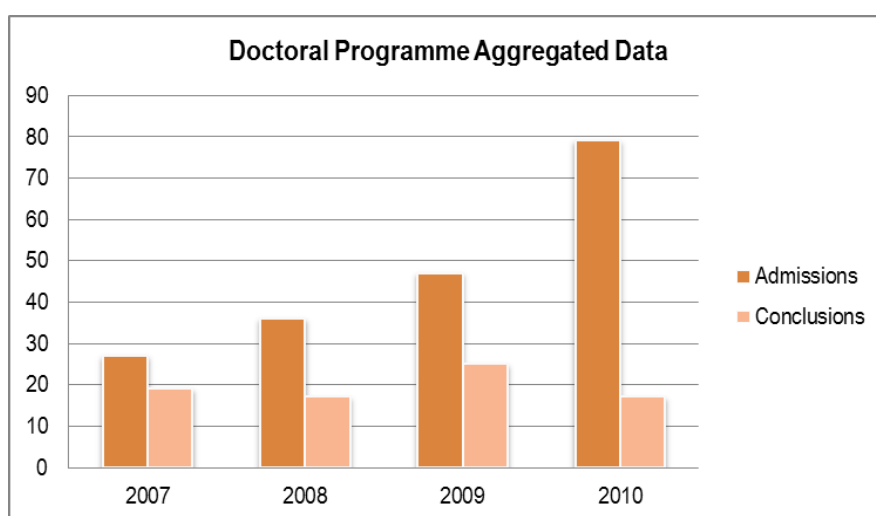


Figure 12. – Admissions and conclusions to the Doctoral Program.

The number of students admitted but did not successfully conclude their Ph.D. should also be noted. The table above is complemented by the information in the following table to illustrate the Program's evolution; in addition to conclusions, the first registers how many students were admitted and the second how many dropped out per Group and per year. The latter is ranked thus highlighting the absence of drop outs in Finance for the reported period, for example.

	Total sum of drop outs, freezing of inscriptions, deadlines expired, Ph.D. exclusions per year of admission.				
PH.D. PER GROUP	2007/08	2008/09	2009/10	2010/11	Total
Marketing	1	0	3	5	9
General Management	1	2	0	3	6
Orga. Behav. and H. Res.	1	0	1	3	5
Applied Stat./ Econom. And Econ.	1	0	1	2	4
Accounting	1	0	1	1	3
Finance	0	0	0	0	0
Total	5	2	6	14	27

Figure 13 – Summary of drop outs, freezing of inscriptions, deadlines expired, Ph.D. exclusions per year of admission.

The following chapter analyses each major indicator in more detail. Other aspects related to organic functioning, greatest achievements, and broader objectives are also addressed. Subsequently, each Group will be analysed individually using the same criteria.

I

The Unit

The Unit

BRu-UNIDE ACTIVITY REPORT

1. Unit Description

BRu-UNIDE (Business Research Unit, BRU) is a functional unit of the ISCTE-IUL Business School oriented to interdepartmental scientific research in finance, management, accounting, economics, econometrics and econophysics, marketing, human resources, organizational behavior, and quantitative methods applied to these subjects. This multidisciplinary approach to research has been one of UNIDE's key strength for two main reasons: first, it develops in-house scientific production across several fields of study; and second, it leverages the unit's academic programs and its industry and firm relations.

The unit is centrally coordinated by the Vice-Rector of IUL and its organization and management respects the status approved by the Rector (18/2009) and published in the official Journal of the State of Portugal on June 9, 2010 (9771/2010).

In terms of internal organization, there are three main governing bodies chaired by the Director:

- The Scientific Council, which comprises all researchers eligible for funding according to the recently approved admission and tenure rules;
- The Scientific Committee, constituted by the Director and four members elected by the Scientific Council;
- The Director, elected by the Scientific Council and appointed by the Rector. The current Director, Mohamed Azzim Gulamhussen, was elected by the Scientific Council and appointed by the Rector on 25 May, 2010.

The Director also represents the unit on three of the Institute's governing bodies:

- The IUL Scientific Council;
- The Scientific Board of all ISCTE-IUL research units, coordinated by the Vice-Rector for research;
- The Scientific Committee of the ISCTE-IUL Business School.

The unit currently has an International Scientific Advisory Board constituted by five Professors from six prestigious Universities from different parts of the world: Alnoor Bhimani (LSE), Colin Cameron (University of California, Davies), Jay Dahya (City University of New York), Jean François Hennart (Tilburg), and Eleanor Westney (York University).

In 2007 the unit housed five groups, some with more than one line of research: MRC - Management Research Center (covering eight lines of research (L1, L2, L4, L5, L9, L10, L13, L16)); StatMath – Business Statistics and Mathematics Research Center (L7); FRC – Finance Research Center (L13 and L14); ARC – Accounting Research Center (L15); and ERC – Economics Research Center (gathering all newly arrived researchers).

Since then, and in order to optimize research and make groups' work more effective, the unit has reorganized its structure and narrowed down the investigation scope of its groups. The unit is now able to pursue more comprehensive scientific production within each group following the conversion of lines of investigation into new research groups.

Currently, UNIDE is structured into the groups of Accounting; Applied Statistics; Economics; Econometrics and Econophysics; Finance; General Management; Marketing; and Organizational Behavior and Human Resources. All scientific production, projects undertaken, conferences attended, papers presented, Ph.D. theses supervised, and activities carried out during the years of 2007, 2008, 2009 and 2010 will be further analysed in this report for these eight groups with regard both field of research and researchers' current group affiliation.

Our researchers belong mainly, but not exclusively, to the Business School faculty. Most have completed their Doctoral and Post-Doctoral studies abroad and have diverse ethnic and geographic origins. The graph below illustrates the current distribution of researchers regarding these matters:

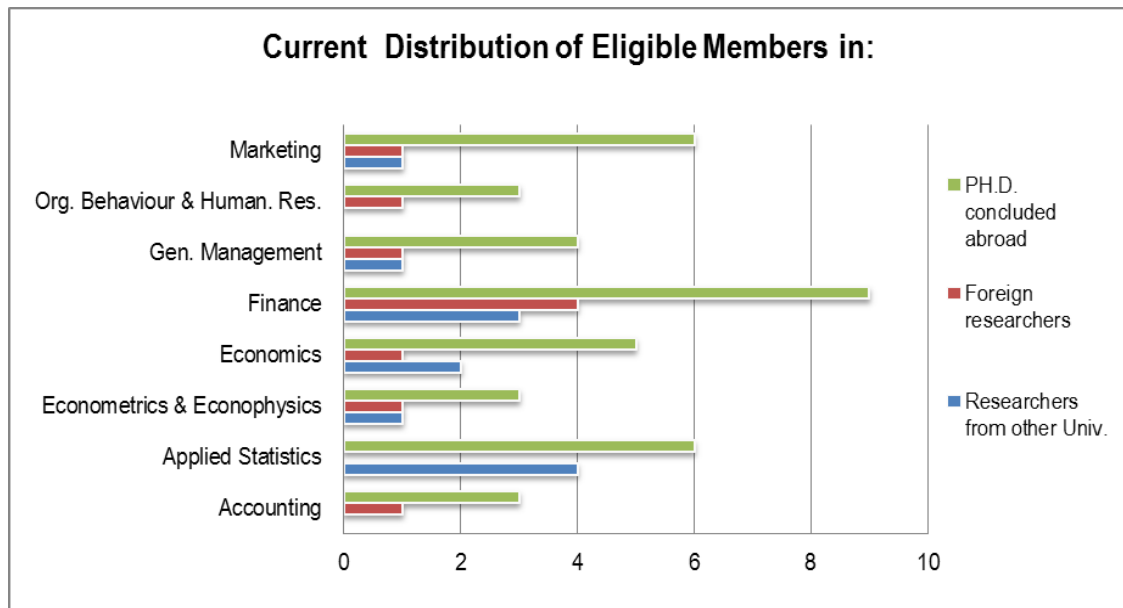


Figure 1 – Distribution of foreign researchers, researchers from other Universities, and Ph.D. concluded abroad.

The unit is structurally funded by the F.C.T., the *Fundação para a Ciência e Tecnologia*, and is evaluated every four years by an international panel appointed by the same public organism. Parallel to this structural funding, our researchers also compete for funding through specific calls for project submission by both the F.C.T. and the European Commission.

The management of the unit is centrally coordinated by the Scientific Committee chaired by the Director, who appoints a coordinator for each group. At least every two months, the Scientific Committee meets and approves all key scientific and financial decisions. However, these decisions require a formal opinion from the Scientific Council. Once obtained, the day-to-day decisions are made by the research coordinators within their groups and submitted to the unit secretariat for the Director's ratification.

2. General Objectives

UNIDE's main objective is to establish itself as a top level research unit in the scientific field of business and economics in Portugal and Europe. There are three interweaving aims:

- To contribute to scientific literature;
- To help provide world-class educational programs through the Business School to domestic and international students;
- To use our research capacity to develop solutions for specific firm and industry problems.

For the first time since UNIDE was set up in 1994, admission (Ph.D.) and tenure rules (either one ISI or three non-ISI international publications; or Ph.D. concluded in the last three years; or participation in funded research project) were established. Since September 2010, only those who comply with these rules are eligible to be members. Therefore, there is a gap between the total number of researchers (132) and the number eligible for funding (90). The graph below presents the distribution of eligible researchers:

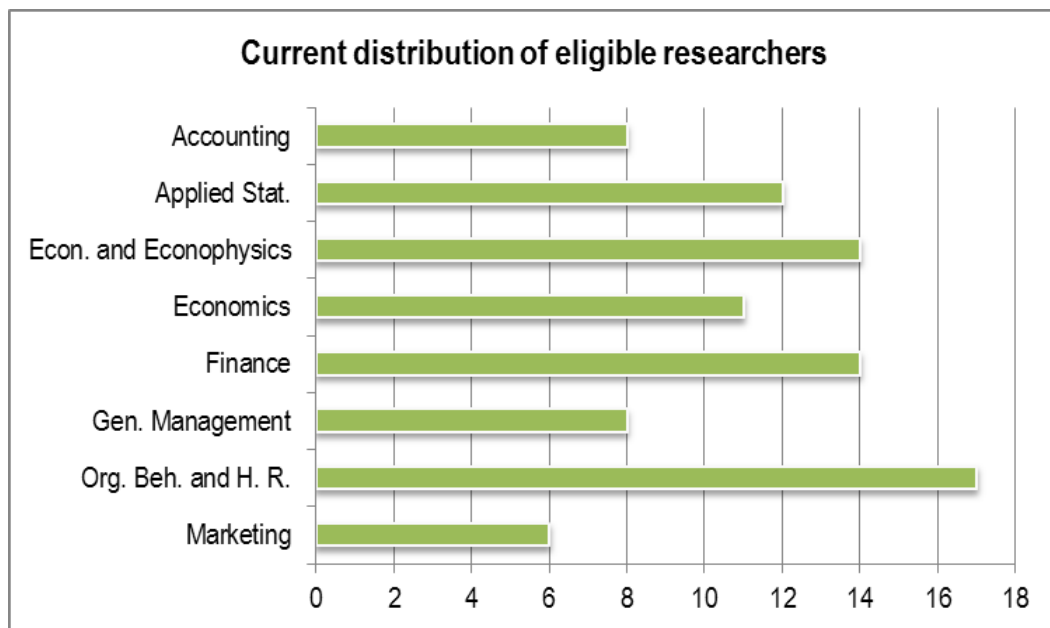


Figure 2 – Current distribution of eligible researchers.

These new rules strive not only to moderate the significant interest researchers demonstrate to become members but also to build high impact international research in these areas in Portugal and Europe. While we strongly encourage publications in ISI indexed journals (especially the Financial Times Top 40 (Top 45 from 2011)), we do not discourage publication in non-ISI indexed journals.

Integrated membership is possible for researchers with one ISI indexed or three non-ISI indexed publications over the past three years; or an on-going funded project; or for who has completed their Ph.D. in the last three years.

Over the years to come, it is very likely that the admission and tenure rules will have to be tightened to continue moderating the size of the unit and quality of the research output. Associate membership and assistant membership are also possible and involve the analysis of the curriculum vitae of every proponent.

Our aims can be summarized as follows:

- Establish ourselves as a center of excellence in business and economics, both domestically and internationally, by continuing to produce publishable research in Top journals;
- Secure domestic and international grants, in addition to the structural funding that we obtain from the F.C.T., to execute our research agenda and increase the pace towards our recognition as a center of excellence in business and economics;
- Promote the integration of our researchers in international networks, thereby encouraging discussion on the most recent scientific developments in research and education programs;
- Attract high potential domestic and international researchers to the unit;
- Disseminate our research to the scientific community by presenting papers in seminars in other Top Universities and participate in the best international conferences;
- Increase the synergies of our doctoral programs and joint programs with other national and international Universities, and attract graduate students committed to participation in World class academic programs;
- Disseminate our research to the public in general and more specifically to industry and firms through articles published in domestic journals and books.

3. Main Achievements

There have been two major achievements over the reported period: on one hand the gradual increase of quality and quantity of research output; and on the other, the changes in the organizational structure and management that came about after the election and appointment of the new Director.

Organization and Management

- The new organizational and management structure addressed in the description of the unit enabled the appointment of a new and independent International Scientific Advisory Board, as well as the election and appointment of the Director and a new Scientific Committee;
- Following the recommendation of the Evaluation Panel (2003-2006):
 - New and strict admission and tenure rules were approved and implemented;
 - Focused research groups were created and their coordinators appointed.

- The unit was relocated closer to other research units such as the CIES (Center for Research and Studies in Sociology) and CIS (Investigation and Social Intervention Center). The office is now bigger and has a capacity to host a larger number of staff and researchers (20) who do not have office space in ISCTE-IUL.

Scientific Achievements

- Our output has grown steadily over the last four years and in particular in the last year of reference. For both quantitative and qualitative comparison, in 2007 the unit researchers published 24 articles in ISI indexed journals and 22 in other international peer reviewed vis-à-vis 41 and 54 respectively in 2010. Over the last four years, our researchers published an average of 34 articles in ISI indexed journals and 40 in other peer reviewed journals.

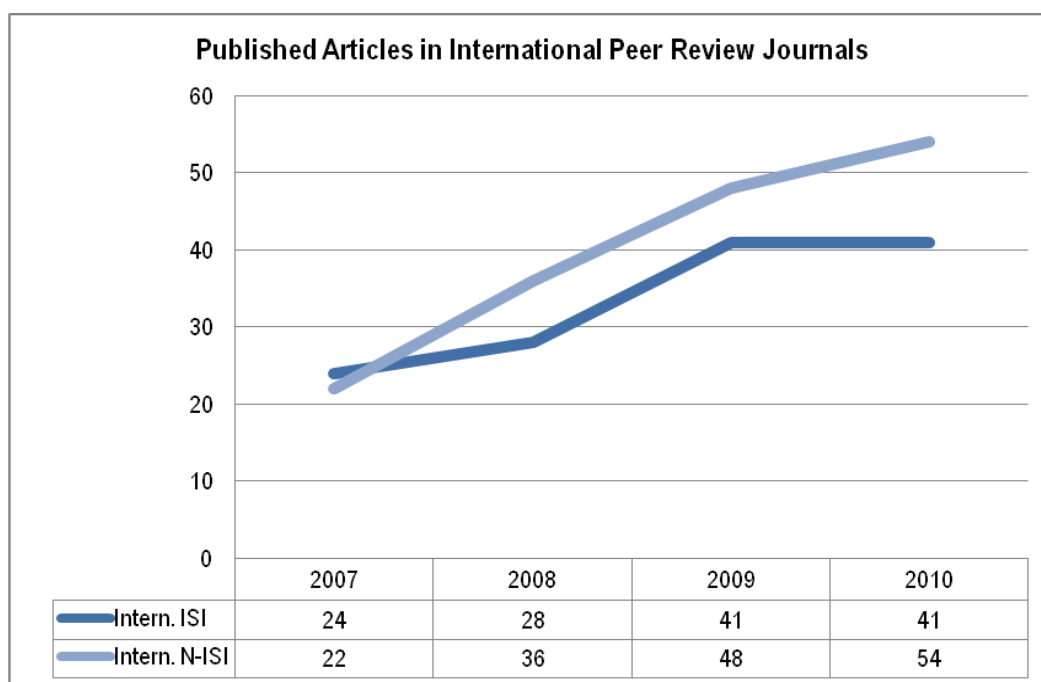


Figure 3 – Articles published in international peer review journals from 2007 to 2010.

- In 2010, an ISI indexed article published by one of our researcher was selected as one of the Top 50 articles published in 2009 and received the Emerald Award for Excellence;
- As part of its internationalization effort, the unit continued promoting collaboration with researchers based at Universities in Brazil, China, Europe, India and the U.S., with whom the Institute has had long-term alliances further integrating our researchers in international research networks. Formally

addressed in the strategic framework of IBS in 2003, the development of an international dimension is one of IUL's goal and UNIDE has diligently worked towards that purpose;

- Several new domestic and international researchers, both established and with recent Ph.D.'s from very prestigious Universities, were attracted to the unit; this has brought in new research capacity, experience and culture that is expected to generate positive spillovers throughout the unit;
- The number of projects in which our researchers have been involved (regardless type of funding) has grown steadily between 2007 and 2010 by a total of 42, 23 of these funded by the F.C.T. (as graphically represented). The overall amount of on-going projects funded by the F.C.T., including those concluded during the reported period, reached €1.606.186,00;

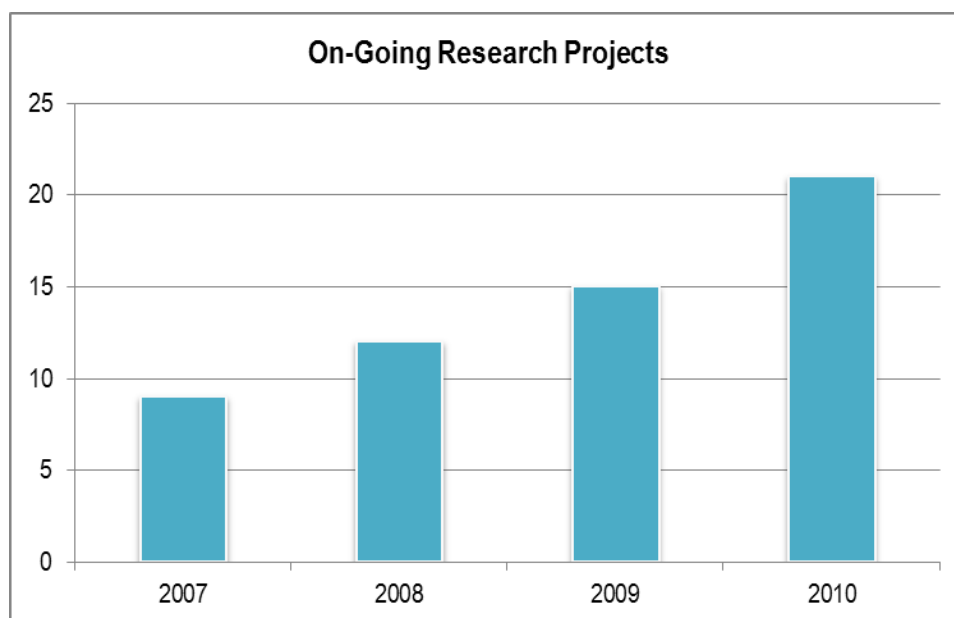


Figure 4 – Evolution of on-going projects funded by the F.C.T..

- On a more specific and illustrative analysis level, project "Quaser - quality and safety in European hospitals: a research-based guide for implementing best practice and a framework for assessing performance" coordinated from Kings College in the U.K. gathered five UNIDE researchers and received a total grant of €400.000,00 from the European Union 7th Framework;
- The recent institution of Associate Membership with the aim of attracting members linked to the corporate and policy-making world is likely to further enhance the dissemination of our research to firms and industry in general through publication of articles in domestic journals, books and chapter of books.

4. Integrative/ Multidisciplinary Activities

The multidisciplinary nature of our unit has brought about heterogeneity across research groups, which we have moderated by increasingly undertaking and fostering activities that cut across several subjects. These activities can be summarized in five main vectors:

1. The cooperation of researchers across the research groups. The Applied Statistics and Econometrics groups are particularly active in this type of collaboration; they have achieved some important research output with researchers from the Accounting, Finance, Economics and General Management groups. Though productive throughout the last four years, this is a vector the unit would like to consolidate further by organizing monthly or bi-monthly meetings among groups;
2. The development of collaborative projects among researchers from different groups, and for submission to the F.C.T. and the E.U. Calls for Grants. The “Corporate Governance in Middle Income Countries” and the “Quaser” projects are examples of projects in which we have promoted collaboration across various research groups and several national and international Universities;
3. The comprehensive and ambitious doctoral Programs which promote the production of pertinent and innovative knowledge in different specialization areas. More specifically, Ph.D. Programs in Accounting, Economics, Finance and Quantitative Methods share almost half of the curricular units and Ph.D. Programs in Organizational Behavior and Human Resources, Marketing and General Management up to more than a half of the curricular units shared. Additionally, members from the Applied Statistics and Econometrics groups coordinate and lecture curricular units in quantitative and qualitative methods. This has increased the number of students jointly supervised by researchers from the different groups and publications that cut across several disciplines;
4. The consolidation of specialized master Programs, the best known of which is the joint Masters in Mathematical Finance of the Finance and Quantitative Methods departments with the Faculty of Sciences of the University of Lisbon (FCUL). Another recent example is the Energy MBA with the Columbia University. With the integration of the Doctoral Programs in the unit, it is likely that new collaborative arrangements with other national and international Universities will be further established;
5. The promotion of activities with other research centers. Although presently informal, some of our researchers are now publishing with researchers from other centers, such as the CEFAGE (Center for Advanced Studies in Management and Economics of the University of Évora) and NIPE (Economic Policies Research Unit), whose expertise complements that of our researchers.

5. Outreach

- The long-time edition of three journals is a very emblematic outreach activity undertaken by the unit, namely the *Revista Portuguesa e Brasileira de Gestão* (a joint endeavour with The Fundação Getúlio Vargas in Brazil); the *Global Economics and Management Review*; and, more recently, the *Portuguese Journal of Quantitative Methods* –, all with peer reviewing system and source articles from both international and domestic academics and practitioners;
- One vector of our outreach activity includes the organization of annual international peer reviewed conferences, such as the “Gira 2010” or the “2010 Finance Research Conference”, that have specific slots for the participation of practitioners and seminar series on a regular basis, complementing the participation of our researchers in seminar series and conferences abroad;
- Active development of contacts with other national and international universities and faculty members to develop joint education and research programs is on-going in the unit. The “Quaser” project is an example of an active but selective outreach activity undertaken by our researchers with overseas universities and international researchers and the “Corporate Governance in Middle Income Countries” with national and international researchers. Of particular interest are the links created by these projects with enterprises, industry and policy-makers;
- The internationalization of our Ph.D. Programs, which are progressively being taught in English and therefore attracting overseas graduate students, is another important vector of our outreach activities as many research projects start being tied with enterprise and industry requirements;
- The unit has also encouraged the creation of summer schools at IBS and abroad and has fomented residential stays in foreign countries (usually in close collaboration with a local university), which enable contacts with the business community;
- Our domestic (several) and international (for example the “Energy MBA” with the University of Columbia) masters Programs, executive weeks (for example with the Indian Institute of Management Bangalore) and the recently launched MIT-ISCTE Venture Competition enable us to remain connected to enterprises, industry and policy-makers;
- In association with the leading local business schools, the creation of MBA Programs in Mozambique and Cape Verde (former Portuguese colonies), in China (Guangdong Province as sequence of a former presence in Macao) and in Brazil (with Fundação Getúlio Vargas) has gone from being a future goal in 2008 to a reality in 2010;

- Finally, several researchers from the unit, both integrated and associate, maintain close contacts with enterprises and industry both in the domestic and international arenas undertaking consulting, executive teaching and applied research assignments. The latter is unquestionably fundamental to increasing the unit's private funding.

Funding

Célia Ramalho / Rui Costa Pinto

Composition and Training

Alexandra Pereira

Researchers Hired

Célia Ramalho / Rui Costa Pinto

Technical Personnel Hired

Célia Ramalho / Rui Costa Pinto

II

Research Groups

Accounting Area Subject Group

Research Group Title: **Accounting**

Principal Investigator: Helena Isidro

Main Scientific Domain: Accounting

Home Institution: ISCTE-IUL Instituto Universitário de Lisboa

The Accounting Group is comprised of a small but ambitious and motivated group of scholars who are actively engaged with research within the accounting field. The Group's activity in this four-year period is further analyzed in this sub-chapter.

1. Internal Organization

The Accounting Group currently has eleven (11) researchers, eight (8) of whom are considered eligible for funding – six (6) due to publications and two (2) to participation in a funded project:

ACCOUNTING Group			
Members:	Status:		
	Eligible	Associate	Assistant
1. Ana Isabel Abranches Pereira de Carvalho Morais	E		
2. Ana Simões	E		
3. Helena de Oliveira Isidro	E		
4. Isabel Maria Estima Costa Lourenço	E		
5. Maria Antónia Jorge de Jesus	E		
6. Maria João Cardoso Vieira Machado	E		
7. Maria João Martins Ferreira Major	E		
8. Paulo Jorge Varela Lopes Dias			AI
9. Pedro António de Sousa Ferreira			AI
10. Sebahattin Demirkan	E		
11. Victor Domingos Seabra Franco		A	

Figure 1 – Group's internal organization

2. Researchers

Currently, three (3) out of the eleven Group researchers completed their Doctoral studies abroad (University of Lancaster; Manchester School of Accounting and Finance; University of Texas). There is also one (1) foreign researcher (Turkey) in the Group:

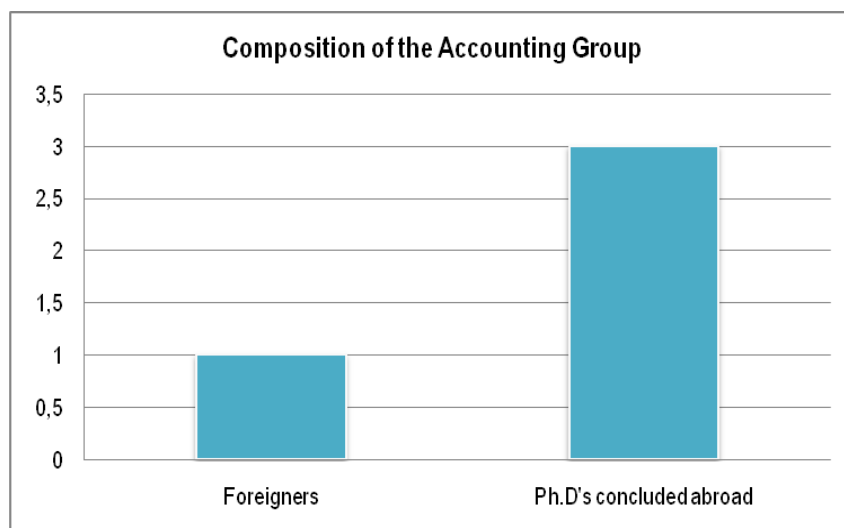


Figure 2 – Current distribution of the Group's researchers in terms of foreigners and doctoral degrees abroad.

3. Funding sources; Dates

Members of the Accounting Research Group participate in several projects funded by the F.C.T. and other private institutions. Some of these projects were initiated during the reported period, some were concluded and some are still on-going. These projects are coordinated by members of other research groups within UNIDE, as well as from both national and international institutions. Examples include:

Research projects concluded in 2009

- "Management accounting change in the Portuguese National Healthcare service". Project nr. POIC/EGE/62908/2004, with total budget of 38.893,00€. The publication of its outcomes in academic accounting journals is beginning.

Research projects concluded in 2010

- "Corporate governance and financial markets". Project nr. PTDC/GES/65650/2006, coordinated by Clara Costa Raposo (from the Finance Group).

Research projects active in 2010

- “Developing and extending regime switching models in finance and accounting”. Project nr. PTDC/EGE-GES/103223/2008, coordinated by J. G. Dias (from the Applied Statistics Group), with total budget of 24,340.00€;
- "Determinants and economic consequences of non-GAAP financial reporting in Europe". Project nr. PTDC/EGE-GES/103770/2008, coordinated by Ana Marques (UNL), with total budget of 32,370.00€;
- “La calidad de los mecanismos de supervisión: efectos de las nuevas regulaciones de gobierno corporativo sobre la información contable y sobre la implementación de las nuevas normativas”. Project nr. 788105704-5704-4-8, funded by the Ministerio de Educación y Ciencia (Spain).

4. Objectives

The Accounting Research Group is comprised of small but ambitious group of scholars who are actively engaged with research within the accounting field. To develop and enhance research, the Group's objectives for the four years of reference were as follows:

- To foster high quality research in the accounting area and its publication in top international accounting academic journals;
- To develop research projects in the financial and management accounting fields in collaboration with other researchers, particularly those from reputable international institutions;
- To encourage researchers' integration in international accounting networks, encouraging discussion on the most recent scientific developments in the area,
- To promote the involvement of the members in international events such as world-class conferences, international projects and seminars;
- To hold a regular series of accounting seminars with the participation of internationally recognized researchers, and to attract an active group of seminar participants. This indicator has increased in 2010 ;
- To attract a reasonable number of international Ph.D. students with the ability to develop high-quality research.

5. Main Achievements

Throughout the years of reference, the main achievements of the Accounting Group can be summarised as follows:

- From 2007 to 2010 researchers from this Group published 5 articles in ISI indexed journals and 10 in other international peer reviewed journals, with the distribution per year that follows. Regarding national peer reviewed journals, the Group published an average of 2,5 articles between 2008 and 2010. The graphical information given below reveals commitment to research and to the objectives proposed internally:

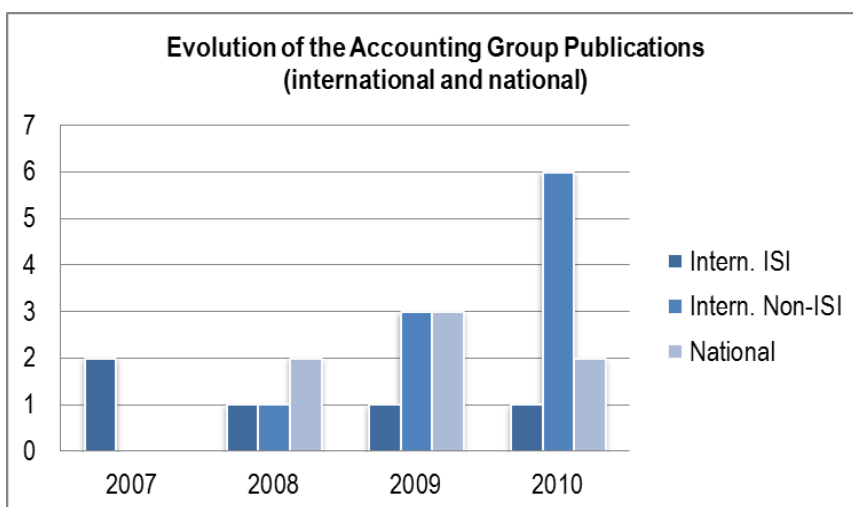


Figure 3 – Evolution of international and national publications from 2007 to 2010.

- Regarding previous information on admission and tenure rules recently approved, the graphic thus presented shows the ratios of each year's publications per total number of eligible members (8):



Figure 4 – Publications per eligible members from 2007 to 2010.

- Journals in which members of this Group published include the "European Accounting Review", the "Review of Quantitative Finance and Accounting", "Social Responsibility Journal" and "Pacific Accounting Review". Mention should be made of the distinction received by one group member for excellent publication (i.e. 2010 Highly Commended Award Paper at the Literati Network Awards for Excellence, for an article published in 'Accounting, Auditing and Accountability Journal');
- The initiation in 2008 of two research projects: (i) "Activity-based costing and management adoption in Portuguese Public Hospitals"; (ii) "The determinants and consequences of non-GAAP reporting measures: international analysis";
- The invitation of two research Group members, Maria Major and Helena Isidro, to be members of the scientific committee at the European Accounting Association Annual Congress in years 2009 and 2010;
- In 2009 the research project "Management accounting change in the Portuguese National Healthcare service", funded by the F.C.T., was concluded and its outcomes have been published in academic accounting journals;
- The Accounting Group continued developing the research project "Accounting and accountability in the public sector", together with researchers from the U.K., Sven Modell (Manchester Business School), and from New Zealand, Deryl Northcott (Auckland University of Technology);
- Two research projects within the financial accounting field were initiated: "Non GAAP reporting practices in Europe", coordinated by Ana Marques (UNL, Portugal), which intends to study the characteristics of non-GAAP financial reporting practices of European companies and the implications for equity valuation and market performance; and "Firm and institutional incentives and the quality of accounting earnings", with I. Raonic (City University, U.K.), which sought to investigate how firm and institutional factors determine earnings and quality measures for companies reporting under the same financial reporting standards;
- Maria Major was invited to participate in the Editorial Board of a top accounting journal ("The European Accounting Review");
- During this report's last year of reference, the F.C.T. funded project entitled "Corporate governance and financial markets", in which a member of this Group participates, was concluded;
- One new project in which members of this Group participate was initiated in 2010: "Developing and extending regime switching models in finance and accounting" (nr. [PTDC/EGE-GES/103223/2008](#)), to be carried out until 2013. This project links accounting research with econometrics and finance; as mentioned above, it is coordinated by J. G. Dias (from the Applied Statistics Group, UNIDE);

- Development of research projects in the area of management accounting, activity-cost based systems applied to the health care sector, optimal cost management systems design, and arts market (nr. PTDC/EAT-HAT/103690/2008). These projects are developed in collaboration with other universities;
- Research positions in prestigious U.K. universities were obtained by group members in 2010 (Cass Business School and Manchester Business School). It should be noted that these research positions have resulted in joint research projects with academics at these institutions. Examples include: a study on the role of institutional incentives in the quality of accounting numbers with Ivana Raonic from Cass Business School; and a study on the consequences of market regulation on investment decisions with Miles Gietzmann from Cass Business School. Both studies have been presented at several international meetings and have been submitted for publication.
- One well-published international scholar was attracted to the Group to undertake joint research with integrated members;
- Over the reported period, members of this Group completed the supervision of 7 Ph.D. theses;
- Presentation of papers on management control applied to specific industries at internationally reputed conferences, such as the European Accounting Association and the Portuguese Finance Network.

6. Publications in Peer Reviewed Journals

ISI Publications

1. Cruz, I. & Major, M. 2007. How might hospitality organizations optimize their performance measurement systems?. *International Journal of Contemporary Hospitality Management*, 19(7): 574 - 588.
2. Hopper, T. & Major, M. 2007. Extending institutional analysis through theoretical triangulation: regulation and activity-based costing in Portuguese telecommunications. *European Accounting Review*, 16(1): 59-97.
3. Morais, A. & Fialho, A. 2008. Do harmonised accounting standards lead to harmonised accounting practices? An empirical study of IAS 39 measurement requirements in some European Union countries. *Australian Accounting Review*, 18(3): 224-236.

4. Morais, A. & Curto, J. D. 2009. Mandatory adoption of IASB Standards: value relevance and country-specific factors. ***Australian Accounting Review***, 19(2): 128-143.
5. Lourenço, I. & Curto, J. 2010. Determinants of the accounting choice between alternative reporting methods for interests in jointly controlled entities. ***European Accounting Review***, 19(4): 739-777

N-ISI Publications

1. Morais, A. 2008. Actuarial gains and losses: the choice of the accounting method. ***Accounting in Europe***, 5(2): 127-140.
2. Cruz, I. & Major, M. & Scapens, R. 2009. Institutionalization and practice variation in the management control of a global/local setting. ***Accounting, Auditing and Accountability Journal*** (EMERALD), 22(1): 91-117.
3. Demirkan, S. & Platt, H. & Platt, M. 2009. Perilous forecast: implications on reliance on terminal value. ***Corporate Finance Review***, 14(3): 23-34.
4. Demirkan, S. & Platt, H. 2009. Financial status, corporate governance quality, and the likelihood of managers using discretionary accruals. ***Accounting Research Journal***, 22 (2): 93-117.
5. Demirkan, S. & Platt, H. & Platt, M. 2010. Free cash flow, enterprise value, and investor caution. ***Journal of Private Equity***, 13(4): 42-50.
6. Morais, A. & Lourenço I. & Curto, J. D. & Pinto, J. C. 2010. The heteroskedasticity-consistent covariance estimator in accounting. ***Review of Quantitative Finance and Accounting***. Published online, 06 October 2010.
7. Demirkan, S. & Demirkan, I. 2010. Strategic alliances and employment contract design: effect of industry life cycle. ***Global Economics and Management Review***, 15(1): 115-129.
8. Demirkan, S. & Platt, H. 2010. The contagion between corporate and personal bankruptcy. ***Journal of Financial Transformation***, (29): 115-121.
9. Eugénio, T. & Lourenço, I. & Morais, A. 2010. Recent developments in social and environmental accounting research. ***Social Responsibility Journal***, 6(2): 286-30.
10. Morais, A. 2010. Actuarial gains and losses: the determinants of the accounting method. ***Pacific Accounting Review***, 22: 42-56.

7. Impact of Scientific Production

The impact of the Group's scientific production is reported using the indicator "SJR – cites per doc (2 years)". It is computed using the average number of citations to articles published in science and social science journals, and therefore used as a proxy for the relative importance of a certain journal within its field. The table below presents aggregated statistical information on the Accounting Group's articles with available "SJR", and is followed by a graph showing the average and the total number of all articles with available "SJR" per year:

ACCOUNTING

"SJR - Cites per Doc. (2y)" computes the average number of citations to articles published in science and social science journals and used as a proxy for the relative importance of a certain journal. Additionally, the indicator is not available to all Journals.

Average of Published Articles' SJR	0,826
Standard Deviation of Published Articles' SJR	0,678
Total of Published Articles' SJR	4,954
Highest SJR	1,769
Lowest SJR	0,155

Figure 5 – Aggregated statistical information on the Group's SJR.

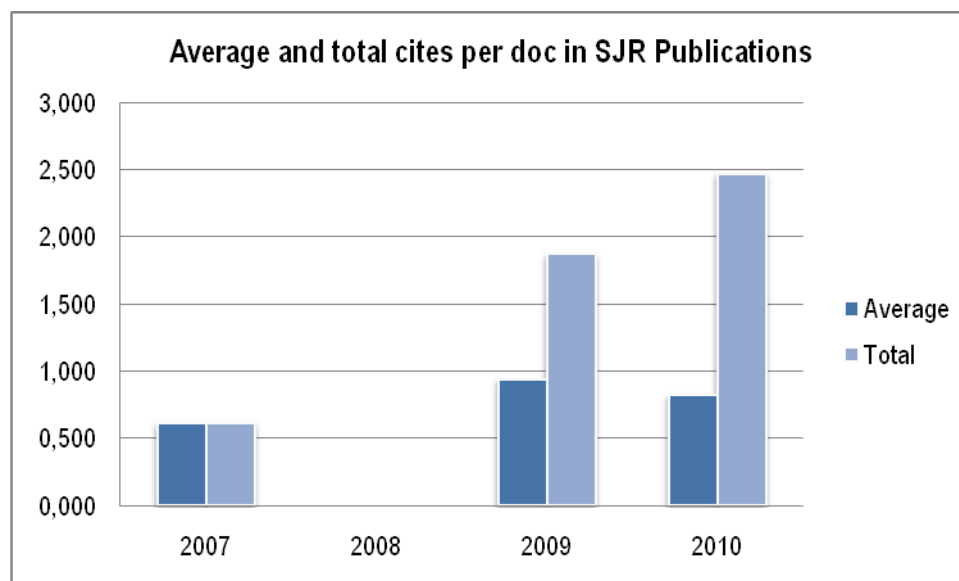


Figure 6 – Average and total cites per doc in SJR Publications.

8. Publications in National Journals

1. Tomás, A., Major, M., & Pinto, J. 2008. *Activity-based costing and management* nas 500 Maiores Empresas em Portugal. **Contabilidade e Gestão**, 6 :33-66
2. Morais, A., & Curto, D. 2008. Accounting quality and the adoption of IASB standards – portuguese evidence. **Revista de Contabilidade e Finanças**, 19 (48).
3. Machado, M. J. 2009. As normas de contabilidade financeira influenciam a contabilidade de gestão das PME's industriais de excelência? Estudo empírico. **Contabilidade e Gestão**, 7 :11-35.
4. Major, M. 2009. Reflexão sobre a investigação em contabilidade de gestão. **Revista Portuguesa e Brasileira de Gestão**, 7(4) and 8(1) :43-50.
5. Vicente, C., Major, M. J., Pinto, C. P., & Sardinha, J. 2009. Estudo do papel dos *controllers* de gestão em Portugal. **Revista Portuguesa e Brasileira de Gestão**, 8(3) :66-79.
6. Borges, C., Ramalho, R., Bajanca, M., Oliveira, T., Major, M. J., Diz, P., & Rodrigues, V. 2010. Implementação de um sistema de custeio por actividades nos hospitais do Serviço Nacional de Saúde?. **Revista Portuguesa de Saúde Pública**, 9: 141-160.
7. Jesus, M. A., & Jorge, S. 2010. From governmental accounting to national accounting: implications on the Portuguese central government deficit. **Notas Económicas**, 31: 24-46.

9. Examples of Books and Book Chapters

1. Morais, A. 2007. **Temas de contabilidade e gestão**. Lisboa: Livros Horizonte.
2. Major, M. J. 2007. **Gestão orçamental e medidas financeiras de avaliação de desempenho**. Lisboa: Livros Horizonte.
3. Major, M. J. 2007. Activity-based costing and management: a critical review. In Hopper, T., Scapens, R., & Northcott, D. (Eds.), **Issues in Management Accounting Research**. Prentice-Hall, 3rd Edition.
4. Franco, V., Oliveira, A., Morais, A., Oliveira, B., Jesus, M. A., Lourenço, I. C., Major, M. J., & Serrasqueiro, R. 2009. **Temas de contabilidade de gestão: os custos, os resultados e a informação para a gestão**. Lisboa: Livros Horizonte.
5. Carvalho, H., & Major, M. 2009. **Implementação do activity-based costing num banco Português**. Lisboa: Escolar Editora.

10. Paper Presentation at International and National Conferences (Examples)

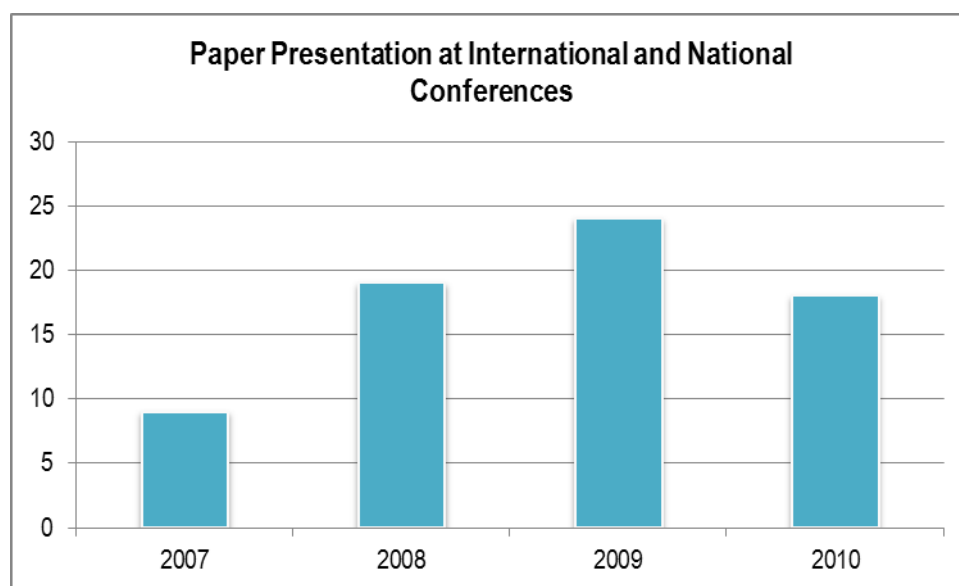


Figure 7 – Paper presentation at top international and national conferences (2007-2010).

The above graph illustrates the steady evolution of Group's participation and contribution through paper presentation at international and national conferences. These include the following:

- Anacoreta, L., & Lourenço, I. 2007. Measurement of harmonization on accounting policy choice in European Quarter Reports. Communication presented at the **European Accounting Association Annual Congress**. Lisbon.
- Major, M. 2007. Activity-based costing and legitimacy: an institutional perspective. Communication presented at the **Seventh International Management Control Research Conference**. Paris, France.
- Morais, A., & Jesus, T. 2007. An empirical review of the benefits and controversies of employee stock options. Communication presented at the **Tenth Congreso Internacional de Costos and First Congreso Transatlántico de Contabilidad, Auditoria, Control de Gestión** (ISEOR and IIC). Lyon, France.
- Eugénio, T., Morais, A., & Lourenço, I. 2008. Teoria da legitimidade como factor explicativo do Relato Social e Ambiental. Communication presented at the **XXXII Consórcio Doutoral ENANPAD**. Rio de Janeiro, Brazil.

- Isidro, H., & Marques, A. 2008. Non-GAAP financial disclosures: evidence for European firms?. Communication presented at the **American Accounting Association Annual Conference**. California, USA.
- Morais, A. 2008. Actuarial gains and losses: the determinants of the accounting method. Communication presented at the **XXXI Annual Congress of European Accounting Association**. Rotterdam, Netherlands.
- Isidro, H., & Raonic, I. 2009. Firm incentives, institutional complexity and the quality of harmonized accounting numbers. Communication presented at the **European Accounting Association XXXII Congress**. Tampere, Finland.
- Jesus, T., Morais, A., & Silva, J. 2009. Value relevance of IFRS reconciliations: transition to IFRS in the UK. Communication presented at the **XXXII Annual Congress of European Accounting Association**. Tampere, Finland.
- Jesus, M. A., & Jorge, S. 2009. Governmental accounting and national accounting - divergences and implications o the Public Deficit in Portugal. Communication presented at the **XII Biennia CIGAR Conference**. Moena, Italy.
- Eugénio, T., Lourenço, I., & Morais, A. 2010. Sustainability strategies of SECIL Company: extending the applicability of legitimacy theory. Communication presented at the **GIRA 2010 International Conference**. Lisbon, Portugal.
- Gietzmann, M. & Isidro, H. 2010. Monitoring of IFRS by the SEC: correspondence letters sent to foreign registrants reporting using IFRS. Communication presented at the **European Accounting Association 33 Annual Congress**. Istanbul, Turkey.
- Machado, M. J. 2010. Management accounting software and accounting practices: empirical study on small and medium size enterprises. Communication presented at the **XIV Encuentro AECA – Asociación Española de Contabilidad y Administración de Empresas: Innovación y responsabilidad**. Universidade de Coimbra, Portugal.

11. Organization and Co-Organization of Conferences

- “VII Congresso do GRUDIS – Contabilidade e Controlo de Gestão”. 2008. Organized by Maria João Major. INDEG/ ISCTE Business School;
- “Novos Desafios na Contabilidade”. 2009. Invited speakers: Dr. César Gonçalves (PriceWaterhouseCoopers), Dr. Mário Freire (Comissão de Mercados de Valores Mobiliários) and Dra. Margarida Bajanca (Deloitte). ISCTE Business School;
- 2010 GIRA Conference and 2010 Finance Research Group Conference. 2010. Active collaboration of members of the Accounting Group.

Seminar series organized by this Group included presentations by:

- Hans Christensen (University of Chicago). 2009. “Does fair value accounting for non-financial assets pass the market test?”;
- Juan Garcia Lara (Universidad Carlos III, Madrid). 2009. “Gender diversity on the board and accounting quality”;
- Catherine Shakespeare (University of Michigan). 2009. “The limits of Empire: asset churning and CEO compensation”;
- Martin Glaum (Justus-Liebig-University of Giessen). 2009. “Earnings smoothing via provisions: IFRS versus German GAAP”;
- Juan Garcia Lara (UAM). 2010. “Gender diversity on the board and accounting quality”;
- Hans Christensen (University of Chicago). 2010. “Does fair value accounting for non-financial assets pass the market test?”;
- Callen Jeffrey (University of Toronto). 2010. “An analytical and empirical measure of the degree of conditional conservatism”;
- Joachim Gassen (Universität zu Berlin). 2010. “Accounting objectives and financial accounting heterogeneity: Evidence of European private firms”;
- Sven Modell (Manchester Business School University of Manchester). 2010. “Power and performance: A field study of the rise and fall of an institutional entrepreneur”.

12. Doctoral Program

- The Accounting Ph.D. Program is coordinated by Isabel Lourenço. It offers students highly advanced skills in accounting, and provides intensive training and cutting-edge knowledge in the area. Data on Program admissions and thesis completion is presented below:

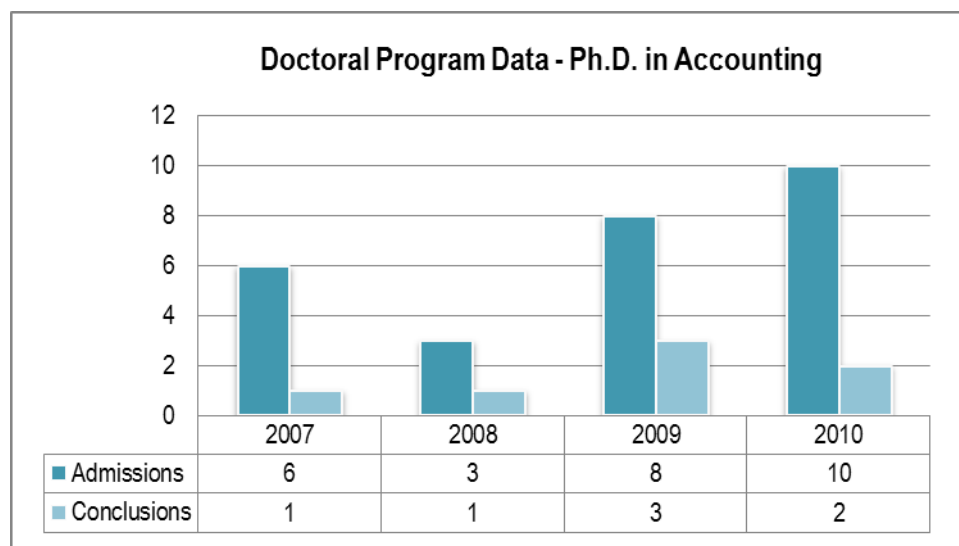


Figure 8 – Accounting Ph.D. Program regarding admissions and conclusions.

Ph.D. Thesis Completed

Ph.D thesis supervised in 2007

- Inês Cruz – "Performance measurement practices in a globalized setting in the hospitality management: an interpretive perspective".

Ph.D thesis supervised in 2008

- Maria João Cardoso Vieira Machado – "Uma abordagem contingencial da repartição dos custos indirectos nas PME'S portuguesas".

Ph.D thesis supervised in 2009

- Teresa Eugénio – "Social and environmental accounting: a case study on a Portuguese cement company";
- Maria Antónia Jorge de Jesus – "A contabilidade pública e a contabilidade nacional: principais divergências e implicações no défice público em Portugal";
- Luisa Anacoreta – "Are European quarter reports becoming more harmonized?".

Ph.D thesis supervised in 2010

- Ana Maria Dias Simões da Costa Ferreira – "A análise da relação entre o Balanced Scorecard e a estratégia - estudo de caso";
- Cláudio António Figueiredo Pais – "Valor relevante da revalorização de activos fixos tangíveis".

13. Internationalization

During the years of reference, endeavors to enhance an international dimension have included the following activities:

- Collaborative research in 2008 with Manchester Business School (professors Trevor Hopper and Robert Scapens), Cass Business School (UK) (professors Ivana Raonic and Miles Gietzmann), Universidad Autónoma de Madrid (professor Leandro Canibano) and Universidad de Valencia (Professor Begoña Giner Inchausti);
- Furthermore, two members of the Accounting Group have actively participated as ad-hoc referees in several international accounting journals. Concomitantly, Maria Major has participated on the editorial board of Journal of Accounting and Organizational Change (Emerald) since its inception in 2003, and Helena Isidro on the editorial board of International Journal of Accounting, Auditing and Performance Evaluation since 2007;
- In 2008, researcher Maria Major became a member of scientific committee of the European Accounting Association Congress in Tampere (Finland), and member of the editorial boards in academic journals - European Accounting Review (since October 2009);
- In 2010, members of this group participated in the scientific committee of top international conferences such as the European Accounting Association Annual Congress 2010 and the Conference on Environmental Management and Accounting 2010;
- Members of this Group are actively collaborating with researchers from Cass Business School (Ivana Raonic and Miles Gietzmann) and the University of Auckland (Deryl Northcott) and were successful in attracting one researcher (Sebahattin Demirkan) to base his research within UNIDE.

14. National Government/ Organization Contract Research

- PTDC/EGE-GES/103223/2008 – “Developing and Extending Regime Switching Models in Finance and Accounting”;
- PTDC/EGE-GES/103770/2008 – “Determinants and economic consequences of non-GAAP financial reporting in Europe”.

Applied Statistics Area Subject Group

Research Group Title: **Applied Statistics**

Principal Investigator: Elizabeth Reis

Main Scientific Domain: Development and application of statistical methods

Home Institution: ISCTE-IUL Instituto Universitário de Lisboa

The Group of Applied Statistics gathers a large group of motivated scholars actively engaged with research within the applied statistics field. The Group's activity over the four-year period under study is further analyzed in this sub-chapter.

1. Group's Internal Organization

The Group of Applied Statistics currently has twenty-seven (27) researchers, twelve (12) of whom are considered eligible for funding – two (2) due to participation in a funded project; two (2) to conclusion of doctoral degree less than 3 years ago; and the other five (5) to publications (either one (1) ISI or three (3) N-ISI):

APPLIED STATISTICS Group			
Members:	Eligible	Associate	Assistant
1. Abdul Kadir Suleman	E		
2. Ana Gomes			AI
3. Ana Margarida Mendes Camelo Brochado	E		
4. Ana Maria Amorim Sampaio da Silva		A	
5. António Francisco Nunes dos Santos Teixeira		A	
6. Catarina Maria Valente Antunes Marques	E		
7. Dália Nogueira	E		
8. Elizabeth Azevedo Reis	E		
9. Francisco Figueiredo			AI
10. Graça Maria dos Santos Trindade		A	
11. João Pedro da Silva Horta Reis Figueira		A	
12. José Adão			AI

13. José Manuel Gonçalves Dias	E		
14. Manuela Maia			AI
15. Maria de Fátima Ramalho Fernandes Salgueiro	E		
16. Maria do Carmo Severino Duarte Grilo Botelho	E		
17. Maria Gabriela Matias da Silva Alves	E		
18. Maria Manuela Martins Pinheiro de Magalhães Hill		A	
19. Maria Margarida Serra Marques Martins de Moura Saraiva	E		
20. Maria Teresa Delgado Calapez	E		
21. Nuno Lavado			AI
22. Patrícia Serra			AI
23. Paula Cristina Vicente			AI
24. Paula Alexandra Barbosa da Conceição Vicente Duarte	E		
25. Teresa Nogueiro			AI
26. Raul Manuel da Silva Laureano		A	
27. Virgínia Aveiro			AI

Figure 9 – Group's internal organization

2. Researchers

Currently, the Applied Statistics Group is the only UNIDE group with no foreign researchers. Six (6) out of the eighteen doctorates completed their Doctoral studies abroad (Univ. Extremadura (Spain); Univ. of Southampton (2 people); Univ. Groningen (Netherlands); Univ. of Manchester; Univ. of Keele (U.K.), and four (4) others are affiliated in other Universities (Fac. Econ. Univ. Porto; Univ. Évora (2 people); E. Sup. Saúde Alcoitão):

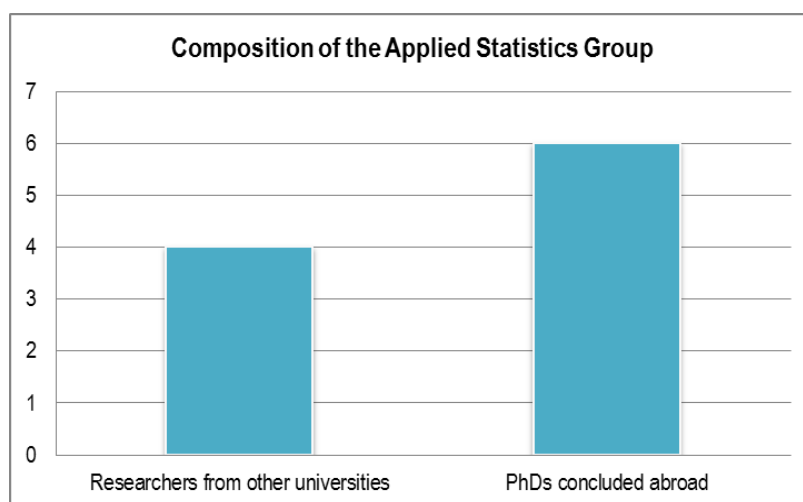


Figure 10 – Current distribution of the Group's researchers.

3. Funding sources; Dates

Research Projects conducted in 2007, 2008, 2009 and 2010 were mainly funded by the F.C.T., although some funding also came from private institutions and the Group's own budget. Some research activities, such as the attendance of international courses and the publication of the Portuguese Journal of Quantitative Methods, were jointly sponsored by Giesta, a consultancy associated center of the Department of Quantitative Methods, whose mission is to provide services to enterprises and the industry.

Active projects undertaken in 2010

- "Modelação estatística de mudanças sócio-económicas com recurso a dados longitudinais". Project nr. PTDC/GES/72784/2006, coordinated by Maria Fátima Salgueiro, with total budget of 72,938.00€.

Autonomous research projects initiated in 2010

- "Developing and extending regime switching models in finance and accounting". Project nr. PTDC/EGE-GES/103223/2008, coordinated by J. G. Dias, with total budget of 24,340.00€;
- "Measuring household wealth and living conditions in less developed countries: a statistical exploration of data from the demographic and health surveys". Project nr. PTDC/CS-DEM/108033/2008, coordinated by J. G. Dias, with total budget of 23,000.00€.

4. Objectives

Until its formation in 2010, researchers in this group were part of a larger group with a broader scope of research that covered five main domains: survey sampling methodologies; multivariate statistics and data analysis; operations research; econometrics and cointegration; mathematics and complex systems; and application of physics in finance and economics.

Currently, the Group's field of study is more focused and oriented to the specific development of research in statistical methods and their applications to the real world.

Aside from the above mentioned structural changes, the objectives of researchers in this field of study in the four-year period under analysis have been as follows:

- The aim in 2008 was to improve the research effort in terms of number of articles published in international peer reviewed journals, more specifically to achieve a ratio of 1 article per year and per Ph.D. in 2010. The change of rules and the regrouping of researchers makes this particular objective difficult to achieve. Nevertheless, 6 articles were published last year;

- To contribute to the diffusion of knowledge in this field of studies, through an annual publication of books and articles for the general public;
- To publish in top international specialist and interdisciplinary journals;
- To foster the involvement of the members in national and international conferences, projects and seminars;
- To establish mutually beneficial links with international and national researchers and institutions. At the national level, we intended to consolidate our presence as a research group in the two most important national events in the areas of applied statistics – the annual congress of the Portuguese Statistical Society (SPE) and the annual meeting of the Classification and Data Analysis Association (CLAD), by encouraging all group researchers to present papers and develop joint research with other SPE and CLAD members;
- To develop joint research projects with other international researchers on structural equation modeling (SEM) and Partial Least Squares estimation (PLS); analysis of panel data; analysis of heterogeneity and measurement error; market segmentation with finite mixture models and fuzzy classification methods; survey sampling methodologies with the use of mobile phones and internet for data collection; errors due to measurement and coverage; analysis of health and demographic data; analysis of spatial data.
- To disseminate the Group's research at top international conferences;
- To attract a reasonable number of international graduate students with the ability to develop high-quality research;
- To continue developing applied research links with enterprises and the industry.

5. Main Achievements

- During the last four years, the main achievements of researchers in this field of study were as follows:
- In total, researchers from this Group have published 16 articles in ISI indexed journals and 16 articles in other international peer reviewed journals, of which 5 and 1, respectively, were published in 2010, as the distribution shows. Regarding national publications, graphic shows great publishing records in 2008 and 2009, with 7 and 11 published articles respectively :

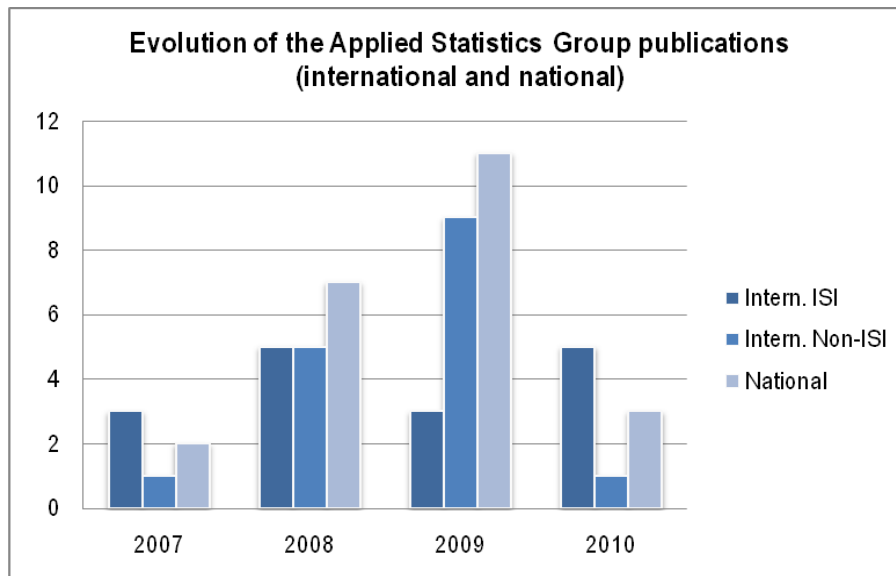


Figure 11 – Evolution of international and national publications from 2007 to 2010.

- Regarding previous information on the recently approved admission and tenure rules, the graph below shows the ratios of each year's publications to total number of eligible members (12):

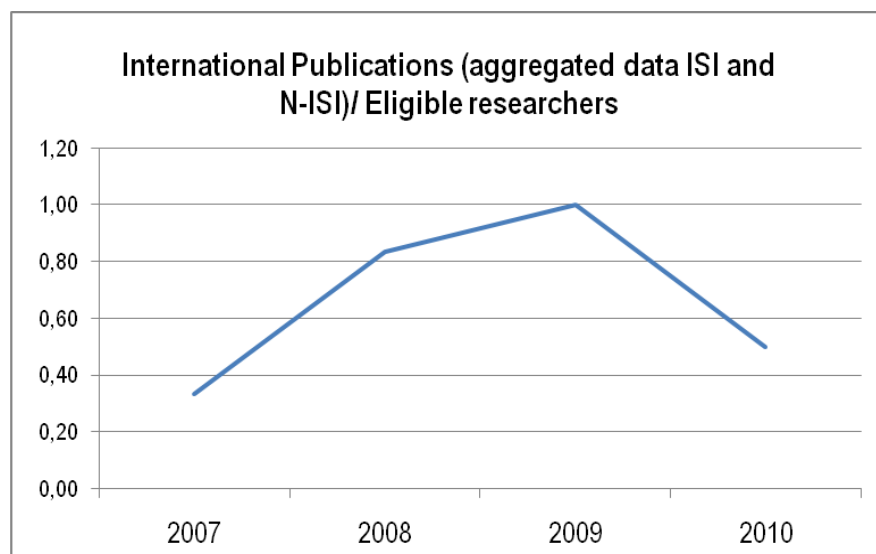


Figure 12 – Publications per eligible members from 2007 to 2010.

- Journals in which members of this Group published articles include, for example, the "Resources, Conservation and Recycling"; "Journal of Mathematical Analysis and Applications", the "Transport Policy", the "Social Science Computer Review", the "Journal of Sustainable Tourism", the "Journal of Global Marketing", or the "Multivariate Behavioral Research";

- Participation in international conferences with an outstanding reputation. For example, papers were presented at the 8th European Conference on Health Economics (Helsinki, Finland), European Conference on Quality of Official Statistics Q2010 (Helsinki, Finland), European Population Conference (Vienna, Austria), and the International Workshop on Statistical Modeling (Glasgow, U.K.). Despite the slowdown, the Applied Statistics Group has a significant record of presentations at prestigious conferences;
- Members of the Group actively participate in the Ph.D. Program and many of them are involved in the supervision of students across several areas. From 2007 to 2010, researchers from this Group supervised 13 Ph.D. theses. To note is the marked homogeneity of the distribution;
- A team of researchers coordinated by José Dias won two research grants from the F.C.T. for a 3-year period starting in 2010:
 - PTDC/EGE-GES/103223/2008 – “Developing and extending regime switching models in finance and accounting” (24,340.00€);
 - And PTDC/CSDEM/108033/2008 – “Measuring household wealth and living conditions in less developed countries: a statistical exploration of data from the demographic and health surveys” (23,000.00€);
- One active project coordinated by Maria Fátima Salgueiro (PTDC/GES/72784/2006) transited from 2009 to 2010 and is expected to terminate in 2011;
- More energy and focus was brought by the fresh set up with the Group establishing itself as multidisciplinary and offering expertise in applying statistical methods to business and economic problems and attracting several researchers to the Group;
- At the national level, we intend to consolidate our presence as a research group in the two most important national events in the areas of applied statistics – the annual congress of the Portuguese Statistical Society (SPE) and the annual meeting of the Classification and Data Analysis Association (CLAD), by encouraging all group researchers to present papers;
- Members of this Group maintain active links with enterprises and the industry through the Giesta, a consultancy associated with the Department of Quantitative Methods.

6. Publications in Peer reviewed Journals

ISI Publications

1. Dias, J. G. 2007. Complete data information criteria for the Naive-Bayes model: a Monte Carlo study. ***Journal of the Korean Statistical Society***, 36(3): 435-445.
2. Papamichail, K. N., Alves, G., French, S., Yang, J. B. & Snowdon, R. 2007. Facilitation practices in decision workshops. ***Journal of the Operational Research Society***, 58(5): 614-632.
3. Vicente, P., & Reis, E. 2007. Segmenting households according to attitudes towards recycling in a Portuguese urban area. *Resources, Conservation and Recycling*, 52 (1): 1-12.
4. Brochado, A., & Marques, R. 2008. Airport regulation in Europe. Is there the need for a European Observatory?. ***Transport Policy***, 15(3): 163-172.
5. Dias, J. G., & Vermunt, J. K. 2008. A bootstrap-based aggregate classifier for model-based clustering. ***Computational Statistics***, 23(4): 643-659.
6. Diogo, C., & Câmara, C. 2008. Invertibility of Toeplitz operators and corona conditions in a strip. ***Journal of Mathematical Analysis and Applications***, 342(2),1297-1317.
7. Salgueiro, M. F., Smith, P. W. F., & McDonald, J. W. 2008. The manifest association structure of the single-factor model: insights from partial correlations. ***Psychometrika***, 73(4): 665-670.
8. Vicente, P., & Reis, E. 2008. Factors influencing households' participation in recycling. ***Waste Management and Research***, 26(2): 140-146.
9. Castro, P., Garrido, M. Reis, E., & Menezes, J. 2009. Ambivalence and conservation behaviour - an exploratory study on the recycling of metal cans. ***Journal of Environmental Psychology***, 29(1): 24-33. Elsevier.
10. Vicente, P., Reis, E., & Santos, M. 2009. Using mobile phones for survey research: a comparison with fixed phones. ***International Journal of Market Research***, 51(5): 613-633.
11. Valle, P., Menezes, J., Reis, E & Rebelo, E. 2009. Reverse logistics for recycling: The customer service determinants. ***International Journal of Business Science and Applied Management***, 4 (1), 1-17.
12. Marques, C., Reis, E., & Menezes, J. 2010. Profiling the segments of visitors in Portuguese protected areas. ***Journal of Sustainable Tourism***, 18(8): 971-996.

13. Reis, E., & Vicente, P. 2010. Marketing research with telephone surveys: is it time to change?. ***Journal of Global Marketing***, 23(4): 321-332.
14. Salgueiro, M. F., Smith, P. W. F., & McDonald, J. W. 2010. Connections between single-factor analysis and graphical Gaussian models. ***Multivariate Behavioral Research***, 45(1): 135-152.
15. Salgueiro, M. F. 2010. Latent growth curve modelling of Portuguese life satisfaction trajectories. ***International Journal of Academic Research***, 2(2): 188-194.
16. Vicente, P., & Reis, E. 2010. Using questionnaire design to fight nonresponse bias in web surveys. ***Social Science Computer Review***, 28(2): 251-267.

N-ISI Publications

1. Dias, J. G. & Vermunt, J. K. 2007. Latent class modeling of website users' search patterns. Implications for online market segmentation. ***Journal of Retailing and Consumer Services***, 14: 359-368.
2. Brochado, A. & Teixeira, A. & Santos, P. 2008. International R&D cooperation between low-tech SMEs: the role of cultural and geographical proximity. ***European Planning Studies***, 16(6): 785-810.
3. Brochado, A., & Martins, F. V. 2008. Aspectos metodológicos da segmentação de mercado: base de segmentação e métodos de classificação. ***Revista Brasileira de Gestão e Negócios***, 10 (27): 132-149.
4. Ramos, A. & Silva, J. V. & Saraiva, M. & Lacerda, P. 2008. The long-term financing decision process: a comparative study of the views and practices of CFOs. ***International Journal of Business Strategy***, 8(2): 1-13.
5. Saraiva, M. 2008. The quality and the "clients" of Portuguese higher education. ***Revista Horizontes Educacionais***, 13(2): 41-54.
6. Teixeira, A. & António, N. 2008. Theoretical and historical framework underlying the QualStrategy model. ***Euro Asia Journal of Management***, 8(1): 37-50.
7. Brochado, A. 2009. Comparing alternative instruments to measure service quality in higher education. ***Quality Assurance in Education***, 17(2): 174 - 190.
8. Brochado, A. & Martins, F. V. 2009. Segmentação do mercado dos vinhos verdes: o caso dos gestores de Restauração. ***Revista Brasileira de Gestão e Negócios***, 11 (30): 7-18.

9. Brochado, A. Martins. F. V. 2009. A coexistência entre a inovação tecnológica, as condicionantes políticas e o desenvolvimento económico - uma aplicação da análise classificatória a 54 países para a compreensão do eixo do bem-estar. **Revista Brasileira de Gestão e Desenvolvimento Regional**, 5 (2): 222-245.
10. Ramos, M., & Carvalho, H. 2009 Quantitative methods in Higher Education: a typology of representations. **Educação e Pesquisa**, 35 (1): 15-32. Published online.
11. Saraiva, M. 2009. Implementação dos princípios de Deming no ensino superior Português. Revista Brasileira de Docência. **Ensino e Pesquisa em Administração**, 1 (2): 84-109
12. Teixeira, A. & Calapez, T. & Rosa, A. 2009. Statistical power analysis with Microsoft Excel: normal tests for one or two means as a prelude to using non-central distributions to calculate power. **Journal of Statistics Education**, 17(3).
13. Oliveira, I. 2009. Fertility differentials and educational attainment in Portugal: a non-linear relationship. **Canadian Studies in Population**, 36(3,4): 347-362.
14. Vicente, P. & Reis, E. 2009. Telephone surveys using mobile phones: an analysis of response rates, survey procedures and respondents' characteristics. **Australasian Journal of Market and Social Research**, 17(2): 49-56.
15. Vicente, P. & Reis, E. 2009. The mobile-only population in Portugal and its impact in a dual frame telephone survey. **Survey Methods Research**, 3(2): 105-111.
16. Vicente, P. & Reis, E. 2010. Who is missing from mobile phone surveys?: an analysis of European countries. **International Journal of Mobile Marketing**, 5(1): 15-27.

7. Impact of Scientific Production

The “SJR – cites per doc (2 years)” is computed using the average number of citations to articles published in science and social science journals, and therefore used as a proxy for the relative importance of a certain journal within its field. The following table presents aggregated statistical information on the articles of the Applied Statistics Group with available “SJR”, and the following graph shows the average and the total of all articles with available “SJR” per year:

APPLIED STATISTICS

“SJR - Cites per Doc. (2y)” computes the average number of citations to articles published in science and social science journals and used as a proxy for the relative importance of a certain journal. Additionally, the indicator is not available to all Journals.

Average of Published Articles' SJR	1.087
Standard Deviation of Published Articles' SJR	0.459
Total of Published Articles' SJR	18.485
Highest SJR	2.000
Lowest SJR	0.262

Figure 13 – Aggregated statistical information on the Group's SJR.

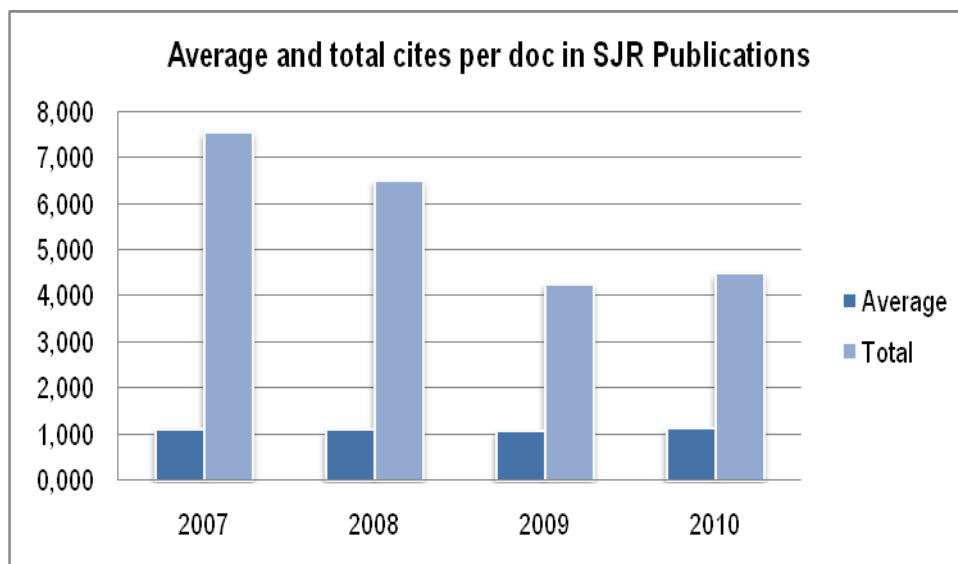


Figure 14 – Average and total number of publications per year with “SJR – cites per doc”.

8. Publications in National Journals

1. Vicente, P., & Reis, E. 2007. Determinantes da adesão das empresas a programas de separação e deposição selectiva de resíduos, *Revista Portuguesa e Brasileira de Gestão*, 6(): 20-30.
2. Santos, F., & Reis, E. 2007. Hábitos de compra da juventude: diferenças culturais. *Revista Portuguesa de Marketing*, 11(20): 23-34.
3. Saraiva, M., Casas Novas, J., Roberto, J., & Reis, E. 2008. O processo de Bolonha e o desafio da empregabilidade. *Revista TOC*, 94: 46-50.

4. Pedro, I., Filipe, J. A., & Reis, E. 2008. Factores determinantes da internacionalização das redes de franchising Ibéricas. ***Economia Global & Gestão***, XIII (1): 65-84.
5. Vicente, P., & Reis, E. 2008. Sondagens na Internet: como seleccionar os respondentes. ***Revista Portuguesa de Marketing***, 22: 59-65.
6. Ferreira, A. C., & Ramos, M. 2008. Padrões de casamento entre os imigrantes em Portugal. ***Revista de Estudos Demográficos***, 43: 107-109.
7. Ferreira, A., C., Lobo, C., Oliveira, I. T., & Ramos, M. 2008. O recasamento: tendências actuais. ***Revista de Estudos Demográficos***, 42: 31-59.
8. Nascimento, J. L., Lopes, A., & Salgueiro, M. F. 2008. Estudo sobre a validação do “Modelo de comportamento organizacional” de Meyer e Allen para o contexto Português. ***Comportamento Organizacional e Gestão***, 14 (1): 115-133.
9. Oliveira, I. T. 2008. Fecundidade das populações e das gerações em Portugal, 1960-2005. ***Análise Social***, 186: 29-53.
10. António, N., & Teixeira, A. 2009. QualStrategy: cuidar do presente e preparar o Futuro. In Saraiva, M., & A. Teixeira (Eds.), *Gestão da Qualidade numa Perspectiva Multi e Interdisciplinar*. ***TMQ Qualidade***.
11. Figueiredo, F., & Dias, J. G. 2009. Modelos de mistura de regressões de Poisson. Uma análise da heterogeneidade regional nas eleições presidenciais portuguesas de 2006. In Salgueiro, M. F., Mendes, D., & Martins, L. F. Editors. ***Temas em Métodos Quantitativos***, 6: 65-77.
12. Flvanicová, Z., Hill, M. M., & Rubliková, E. 2009. Analysis of the efficiency of the economies of the countries that entered the European Union in May 2004. In Salgueiro, M. F., Mendes, D. A., & Martins, L. F. (Eds.), ***Temas em Métodos Quantitativos***, 6: 151-168
13. Lopes, S. B., & Saraiva, M. 2009. Qualidade e certificação: aplicação empírica numa organização certificada pela norma ISO 9001. In Saraiva, M., & A. Teixeira (Eds.), *Gestão da Qualidade numa Perspectiva Multi e Interdisciplinar*. ***TMQ Qualidade*** 0: 221-237.
14. Nogueiro, T. & Saraiva, M. 2009. Qualidade e o modelo Common Assessment Framework (CAF): estudo empírico nos Serviços Académicos da Universidade de Évora. In Saraiva, M., & A. Teixeira (Eds.), *Gestão da Qualidade numa Perspectiva Multi e Interdisciplinar*. ***TMQ Qualidade*** 0: 193-219.
15. Rosa, A., Teixeira, A., & António, N. 2009. Porque foi o Japão o pioneiro da adopção da gestão da qualidade?. In Saraiva, M., & A. Teixeira (Eds.), *Gestão da Qualidade numa Perspectiva Multi e Interdisciplinar*. ***TMQ Qualidade***.
16. Saraiva, M., & Rolo, A. 2009. Qualidade e inovação: principais implicações nas organizações portuguesas. In Saraiva, M., & A. Teixeira (Eds.), *Gestão da Qualidade numa Perspectiva Multi e Interdisciplinar*. ***TMQ Qualidade*** 0: 95-121.

17. Saraiva, M., & Teixeira, A. 2009. Introdução. In Saraiva, M., & A. Teixeira (Eds.), Gestão da Qualidade numa Perspectiva Multi e Interdisciplinar, **TMQ Qualidade** 0: 13-17.
18. Tavares, S., Cardoso, M., & Dias, J. G. 2009. Best-Worst: Uma alternativa na avaliação da importância de atributos. In Salgueiro, M. F., Mendes, D. A., & Martins, L. F. (Eds.), **Temas em Métodos Quantitativos**, 6: 79-90.
19. Teixeira, A., & António, N. 2009. Qualidade e Estratégia. In Saraiva, M., & A. Teixeira (Eds.), Gestão da Qualidade numa Perspectiva Multi e Interdisciplinar. **TMQ Qualidade**.
20. Trigo, V., Calapez, T., & Santos, M. C. 2009. SMEs and internationalization: an empirical study of SMEs in Portugal. **Economia Global e Gestao** (Global Economics and Management Review), XIV (3).
21. Marques, C., Reis, E., Menezes, J., & Salgueiro, M. de F. 2010. Modelling the influence of environmental attitudes on the preferences for activities: a SEM approach. **Portuguese Journal of Quantitative Methods**, 1(1):119-134.
22. Oliveira, I., & Mendes, M. F. 2010. A Duração da vida para Homens e Mulheres em Portugal: do longo processo de divergência aos primeiros indícios de convergência (1940-2007). **Análise Social**, 194():115-138.
23. Oliveira, I. 2010. Mortalidade: compressão, deslocamento e causas de morte (Portugal 1950- 2005). **Revista de Estudos Demográficos**, 48:35-62.

9. Books and Book Chapters (both national and international)

1. Dias, J. G. 2007. Model selection criteria for model-based clustering of categorical time series data. A Monte Carlo study. In Decker, R., & H.-J. Lenz (Eds.), **Advances in Data Analysis**, :23-30. Berlin: Springer-Verlag.
2. Dias, J. G., & Cortinhal, M. J. 2008. The SKM algorithm: A K-means algorithm for clustering sequential data. In Geffner, H., R. Prada, I. M. Alexandre, and N. David (Eds.), **Advances in Artificial Intelligence IBERAMIA 2008**. Lecture Notes in Artificial Intelligence. Berlin: Springer, :173-182.
3. Hill, M., Santos, M., & Líbano Monteiro, A. 2008. **Investigação Operacional – volume 3 – Transportes, Afectação e Optimização em Redes**. Sílabo.

4. Hill, M., Ferreira, M., Dias, J., Salgueiro, M. F., Carvalho, H., Vicente, P., Braumann, & C. (Eds.). 2008. **Estatística – da teoria à prática: Actas do XV Congresso Anual da Sociedade Portuguesa de Estatística**. SPE: Lisboa
5. Laureano, R., & Soares, H. M. (Eds.). 2008. **Perspectivas do Crédito à Habitação – Temas em Métodos Quantitativos**. Edição Especial, Silabo.
6. Santos, F., & Reis, E. 2008. Materialism in Europe: a cross-cultural approach. In Moutinho L. & Kun-Huang Huang (Eds), **Advances in Doctoral Research in Management**, 2(chapter 3): 37-60.
7. Cortinhal, M. J., & Dias, J. G. 2009. An EM-based algorithm for Web mining massive data sets. In B. Fleischmann, K.-H. Borgwardt, R. Klein & A. Tuma (Eds.), **Operations Research Proceedings 2008**. Berlin: Springer, :371-376.
8. Dias, J. G. 2009. Modelos longitudinais em Economia e Gestão. Uma introdução à análise da mudança e da dinâmica. In R. Pereira (Ed.), **A Dinâmica nas Ciências Econômicas e Empresariais. Contributos para uma Visão Abrangente**, 113-128. Macéio, Brasil: Edição EDUFAL.
9. Dias, J. G., Vermunt, J. K., & Ramos, S. 2009. Mixture hidden Markov models in finance research. In A. Fink, B. Lausen, W. Seidel, & A. Ultsch (Eds.), **Advances in Data Analysis, Data Handling and Business Intelligence**, :451-459. Berlin: Springer.
10. Dias, J. G. 2009. Is European economic growth heterogeneous across countries? A latent Markov analysis. In J. Pires Manso, & J. D. Monteiro (Eds.), **Anales de Economía Aplicada / Anais de Economia Aplicada**, :649-657. Madrid: Delta Publicaciones.
11. Dias, J. G. 2009. Breast cancer diagnostic typologies by Grade-of-Membership fuzzy modelling. In Demiralp, M., Baykara, N. A., & Mastorakis, N. E. (Eds.), **Proceedings of the 2nd WSEAS International Conference on Multivariate Analysis and its Application in Science and Engineering** (MAASE '09), 129-133.
12. Fontes, M., Conceição, O., & Calapez, T. 2009. What factors lead to heterogeneity in the performance of RBSOS knowledge production and transformation function. In **PICO Final Activity Report** (Academic entrepreneurship, from knowledge creation to knowledge diffusion), 6th framework program, PRIORITY 7 Citizens and Governance in a Knowledge Based Society.
13. Fontes, M., Conceição, O., & Calapez, T. 2009. Commercialisation strategies of research based spin-offs: the case of companies that operate in the market for technologies. In Mets, T. (Ed.), **From the university environment to academic entrepreneurship**, 6th Inter-RENT. Online Publication, available at <http://www.ecsb.org/eng/offers/publications/inter-rent>).
14. Nogueiro, T., & Saraiva, M. 2009. O caminho da excelência: Auto-avaliação organizacional através da utilização do modelo Common Assessment Framework (CAF). O caso dos Serviços Académicos

- da Universidade de Évora". In Sánchez, A. (Eds.), *Turismo y Cooperación Transfronteriza*. Universidad de Huelva, Huelva – España. Available in CD-ROM.
15. Rebelo, H., Bonito, J., Oliveira, M., Cid, M., & Saraiva, M. 2009. Do rendimento académico ao grau de satisfação dos estudantes: a visão sobre a qualidade na transição do Ensino secundário para o ensino superior. In Bento D. Silva, Leandro S. Almeida, Alfonso Barca, & Manuel Peralbo (Eds.), *Actas do X congresso internacional Galego-Português de psicopedagogia*, :2917-2932. Braga: Centro de Investigação em Educação da Universidade do Minho. Available in CD-ROM.
 16. Salgueiro, M. F. 2009. Modelling job satisfaction trajectories in the British household panel survey using latent growth curve models. In J. P. Manso, & J. D. Monteiro (Eds.), *Anais de Economia Aplicada – XXIII International Congress of Applied Economics*, 23: 581-593. Delta Publicaciones.
 17. Saraiva, M., Bonito, J., Cid, M., & Rebelo, H. 2009. Représentations de qualité de l'enseignement: une étude avec des élèves du cours de gestion de deux institutions d'enseignement supérieur portugaises. In Marjolaine St-Pierre, Lise Bessett, & Johanne Barrette (Eds.), *Actes du Colloque International AFIRSE 2009, Association Francophone internationale de recherche scientifique en éducation – section canadienne*. Faculté des Sciences de l'éducation de l'Université du Québec à Montréal, :621-639. Available in CD-ROM.
 18. Seabra, M., Rolo, A., Alves, A., Jorge, M. F., Saraiva, M., & Rodrigues, J. 2009. Barómetro de responsabilidade social das organizações e qualidade inquérito aos membros da câmara dos revisores oficiais de contas sobre a responsabilidade social e a qualidade praticada em Portugal. In livro de Actas do XV Encuentro AECA, *Decidir en época de crisis: transparencia y responsabilidad*, Setembro/2009. Valladolid, Espanha.
 19. Serra, P., & Salgueiro, M. F. 2009. Modelação longitudinal da satisfação laboral: structural equation models versus multi-process models. In Manso, J. P., & Monteiro, J. D. (Eds.), *Proceedings of the ASEPELT 2009 - XXIII International Congress of Applied Economics*. Available in CD-ROM
 20. Vicente, P., & Reis, E. 2009. Profiling mobile phone users in Europe. In Manso, J., & Monteiro, J. (Eds.), *Proceedings of the XXIII International Congress of Applied Economics, Anais de Economia Aplicada*. Available at <http://www.asepelt.org/ficheros/File/Anales/2009-ortugal/ANALES ANAIS 2009. pdf>)
 21. Laureano, R., & Botelho, M. do C. 2010. *SPSS – O meu manual de consulta rápida*. Lisboa: Edições Sílabo.

10. Paper Presentation at International and National Conferences (Examples)

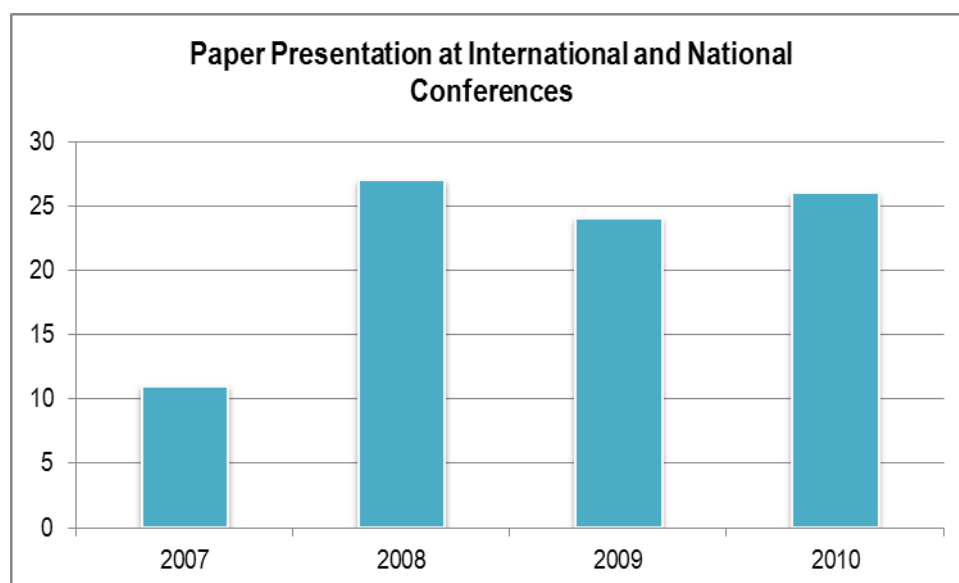


Figure 15 – Paper presentation at international and national conferences (2007-2010).

The above graph illustrates the positive evolution in the Group's active participation and contribution through presenting paper at both international and national conferences. Below we present some examples of these:

- Nogueiro, T., & Saraiva, M. 2007. Melhorar as organizações públicas Portuguesas através da auto-avaliação: estudo de caso dos serviços académicos da Universidade de Évora aplicando o modelo CAF. Communication presented at the **IX Jornadas do Departamento de Sociologia da Universidade de Évora**. Universidade de Évora, Portugal.
- Pedro, I., Filipe, J. A., & Reis, E. 2007. Modelling the internationalization of the Iberian franchising companies: an empirical study. Communication presented at the **Fourteenth Annual International Conference on Advances in Management (ICAM 2007)**. Chambéry, France.
- Teixeira, A. 2007. Microsoft Office as a central platform to compare outputs of functions. Communication presented at the **IADIS International Conference on Applied Computing**. Salamanca, Spain.
- Calapez, T. (poster) 2008. A way to match dimensions from several PCA solutions over the same variables using SPSS programming capabilities. Communication presented at the **The 18th International Conference on Computational Statistics (COMPSTAT)**. Porto, Portugal.

- Laureano, Raul. 2008. The impact of site location in C-Stores sales under the New Paradigm of the Portuguese fuel retail market. Communication presented at the **International Symposium on Locational Decisions (ISOLDE XI)**. Santa Barbara, California, USA.
- Marques, C., Reis, E., Menezes, J., & Salgueiro, M. F. 2008 .The influence of environmental attitudes on the preferences for activities in Portuguese protected areas. Communication presented at the **III Congresso da Associação Hispano-Portuguesa de Economía de los Recursos Natural**. Palma de Maiorca, Spain.
- Nogueiro, t., & Saraiva, M. 2008. Quality on the Portuguese public institutions and the CAF model: empiric study on the University of Évora. Communication presented at the **International Technology Education and Development Conference 2008**. Valencia, Spain.
- Conceição, O. (presenter), Fontes, M., & Calapez, T. 2009 .Commercialisation strategies of research-based spin-offs: the case of companies that operate in the market for technologies. Communication presented at the **ICPTI09 - 12th International Conference on Technology Policy and Innovation**. Porto, Portugal.
- Ginjeira, A., & Ramos, M. 2009. New dual-chamber model to study bacterial leakage along root-end fillings. Communication presented at the **Joint Meeting of the Continental European, Israeli and Scandinavian Divisions of the IADR**. Germany.
- Lopes, H. (presenter), & Calapez, T. 2009. Coordination or cooperation: the role and challenges of relational and moral goods. Communication presented at the **4th RIODD: La Responsabilité Sociale et Environnementale des Entreprises: une nouvelle regulation du capitalisme?**. Lille, France.
- Maia, M., & Vicente P. 2009. Indirect sampling in context of multiples frames. Communication presented at the **JSM – Joint Statistical Meetings in: Statistics: from Evidence to Policy**. Washington D.C., USA.
- Saraiva, M., & Nogueiro, T. 2010. Employability and the Bologna Process. Communication presented at the **Edulearn – International Conference on Education and New Learning Technologies**. Barcelona, Spain.
- Maia M., Vicente P. 2010. Optimal estimator in indirect sampling using dual frames. Communication presented at the **Statistics Canada Symposium 2010 – Social Statistics: The Interplay among Censuses, Surveys and Administrative Data**. Ottawa, Canada.
- Marques, C., Reis, E., & Menezes, J. 2010. The influence of visit motivation on preferences for activities in natural parks: a model-based segmentation using a finite mixture PLS approach.

Communication presented at the **39th European Marketing Association Conference (EMAC2010)**. Copenhagen, Denmark.

- Oliveira, I., Tomé, I., Ribeiro, F., & Mendes, M. F. 2010. Health and life expectancy differences: Portugal, Spain; Italy and France. Communication presented at the **European Population Conference 2010**. Vienna, Austria.

11. Publications in Conference Proceedings (Examples)

- Laureano, R., Mendes, D. A., & Ferreira, M. A. M. 2007. Synchronization with chaotic quadratic maps by non-symmetric coupling. In Fournier-Prunaret, D., Gardini, L., Mira, C., Nishio, Y., & Ueta, T. (Eds.), **Proceedings in International Workshop on Nonlinear Maps and Applications - NOMA'09, IEEEtransaction**, :106-110.
- Dias, J. G., Vermunt, J. K., & Ramos, S. 2008. Heterogeneous hidden markov models. In Brito, P. (Ed.), **COMPSTAT2008 – Proceedings in Computational Statistics**, :373-380, Heidelberg: Physica/Springer-Verlag.
- Figueiredo, F., & Dias, J. G. 2008. Modelos de mistura de regressões de Poisson sob restrições espaciais. In Hill, M. M., M. A. Ferreira, J. G. Dias, M. F. Salgueiro, H. Carvalho, P. Vicente, & C. Braumann (Eds.), **Estatística: Da Teoria à Prática, Actas do XV Congresso Anual da Sociedade Portuguesa de Estatística**, :233-244. Edições SPE.
- Marques, C., Reis, E., & Menezes. 2008. Análise factorial exploratória com variáveis ordinais: uma aplicação dos modelos NOR e POM à motivação de visita das áreas protegidas. In Hill, M. M., M. A. Ferreira, J. G. Dias, M. F. Salgueiro, H. Carvalho, P. Vicente, & C. Braumann (Eds.), **Estatística: Da Teoria à Prática, Actas do XV Congresso Anual da Sociedade Portuguesa de Estatística**, :305-314. Edições SPE.
- Marques, C., Reis, E., Menezes, J., & Salgueiro, M. F. 2008. The influence of environmental attitudes on the preferences for activities in the Portuguese protected areas. **Proceedings of the III AERNA** (Conference of the Spanish-Portuguese Association of Natural Resources and Environmental Economics). Available at: http://www.uibcongres.org/imgdb/archivo_dpo4407.pdf.
- Pontes, L., Dias, J. G. 2008. Análise da heterogeneidade nas motivações para o empreendedorismo: uma aplicação de modelos de classes latentes com variáveis concomitantes. In Hill, M. M., M. A. Ferreira, J. G. Dias, M. F. Salgueiro, H. Carvalho, P. Vicente, & C. Braumann (Eds.), **Estatística: Da**

Teoria à Prática, Actas do XV Congresso Anual da Sociedade Portuguesa de Estatística, :451-460. Edições SPE.

- Suleman, A., Reis, E., & Gomes, I. 2008. Estimação multinomial: uma proposta pseudo-bayesiana. In Hill, M. M., M. A. Ferreira, J. G. Dias, M. F. Salgueiro, H. Carvalho, P. Vicente, & C. Braumann (Eds.), ***Estatística: Da Teoria à Prática, Actas do XV Congresso Anual da Sociedade Portuguesa de Estatística***, :549-559. Edições SPE.
- Vitória, P. D., Salgueiro, M. F., Silva, S., & de Vries, H. 2008. O impacto da influência social na intenção de fumar dos adolescentes. ***Actas do 7.º Congresso de Psicologia da Saúde***, : 533-536. ISPA Edições.
- Calapez, T., & Ramos, M. 2009. Do different presentations of Likert-type items lead to differences in structure? A field study using linear and nonlinear PCA. Communication presented at the ***IMPS 2009, International Meeting of the Psychometric Society***. Abstract in <http://www.thepsychometricscenter.com/page/171/psychological-processes-18.htm> .
- Lavado, N., & Calapez, T. 2009. Matrizes de codificação difusa na ACP não-linear. In Oliveira, I., Correia, E., Ferreira, F., Dias, S., & Braumann, C. (Eds). ***Estatística: Arte de Explicar o Acaso, Actas do XVI Congresso da Sociedade Portuguesa de Estatística***, :353-364. Edições SPE.
- Maia, M., Vicente, P., & Reis, E. 2009. O método generalizado de partilha de pesos em sondagens com duas bases de amostragem. In Oliveira, I., Correia, E., Ferreira, F., Dias, S., & Braumann, C. (Eds.), ***Estatística - Arte de Explorar o Acaso, Actas do XVI Congresso da Sociedade Portuguesa de Estatística***, 381-391. Edições SPE.
- Maia, M., & Vicente, P. 2009. Indirect sampling in context of multiples frames. ***Proceedings of the Survey Methods Section of the Joint Statistical Meetings***. Washington D.C., U.S.A.
- Maia, M., Silva, R., & Andrade, A. 2009. Simuladores no ensino de tecnologias e sistemas de informação. ***Proceedings of the 4th Iberian Conference on Information Systems and Technologies (CISTI 2009)***. Póvoa de Varzim, Portugal.
- Salgueiro, M. F. 2009. Modelling job satisfaction trajectories in the British household panel survey using latent growth curve models. In Manso, J. P., & Monteiro, J. D., (Dir.), ***Anais de Economia Aplicada do ASEPELT09: XXIII International Congress of Applied Economics***, 23 :581-593. Delta Publicaciones.
- Serra, P., & Salgueiro, M. F. 2009. Modelação longitudinal da satisfação laboral: structural equation models versus multi-process models. ***ASEPELT09 - XXIII Congresso Internacional de Economia Aplicada***. (CD-ROM)

- Suleman, A., Suleman, F., & Simões, N. 2009. A quantitative approach to overlapping labour market. Available at <http://www3.eeg.uminho.pt/economia/nipe/workshop LEED2009/preliminar/papers/>.
- Suleman, F., & Suleman, A. 2009. Rating and ranking: a fuzzy approach to individual bundle of competence. Available at the online address http://www.decowe.com/static/uploaded/tmlarea/files/Suleman_SUleman.pdf.
- Vicente, P., & Reis, E. 2009. Profiling mobile phone users in Europe. In Manso, J., & Monteiro, J. (Eds.), **Proceedings of the XXIII International Congress of Applied Economics**. Available at <http://www.asepelt.org/ficheros/File/Anales/2009-ortugal/ANALES ANAIS 2009.pdf>.
- Rosa, A., Vicente, P., & Dias, C. 2010. Census quality control with BSC: the Portuguese experience. **Proceedings of the European Conference on Quality in Official Statistics Q2010**. Helsinki.
- Salgueiro, M. F., Vieira, M. D. T., & Smith, P. W. F. 2010. Latent growth curve modelling of life satisfaction trajectories in the British household panel survey. **Proceedings of the Statistics Canada Symposium** (Longitudinal Surveys: from Design to Analysis). Gatineau, Canada.
- Sousa, F., Aparício, M., & Laureano, R. 2010. Different contributor profiles in an organizational Wiki. **International Workshop on Open Source and Design of Communication** (OSDOC2010), 8 :1-6. Lisbon, Portugal. ISBN 978-1-4503-0480-1.
- Vieira, M. D. T., Salgueiro, M. F., & Smith, P. W. F. 2010. Misspecification effects in the analysis of longitudinal survey data. In A. W. Bowman (Ed.), **Proceedings of the 25th International Workshop on Statistical Modelling**, : 555-560. The University of Glasgow Print Unit.

12. Organization and Co-Organization of Conferences

- 6th International Conference on Applied Mathematics, APLIMAT data 2007, Bratislava, 250 participants. Ferreira, M. A. M. was a member of the scientific committee, and also an editor of the proceedings and referee.
- XV Congresso Anual da Sociedade Portuguesa de Estatística. 2007. Lisbon, ISCTE, 178 participants, Hill, M. M.; - President of the local commission and member of the Executive and Scientific Commission. Other members of LOC: Dias, J. G.; Salgueiro, M. F.; Vicente, P.
- The “XVII Annual Conference of the Portuguese Association of Classification and Data Analysis” (CLAD) was organized by the Applied Statistics group and was hosted by ISCTE-IUL between the

25th and 27th of March, 2010. The organizing committee included the following researchers: Ana Brochado, José Gonçalves Dias, Catarina Marques, Elizabeth Reis, Abdul Suleman, António Teixeira and Paula Vicente.

- Besides the regular seminar series, in 2010 the Group began devoting significant resources (human, technical and material) to the organization of the “Symposium on Recent Advances in Methods for the Analysis of Panel Data” at the Unit on June 15 -16, 2011.

Seminar series co-organized by this Group included presentations by:

- Rui Pacheco (UBI). 2008. “Aplicações harmónicas”;
- Ana Oliveira Brochado (UTL). 2008. “Using information and classification criteria to determine the number of components in mixture regression models”;
- Daniele Fournier-Prunaret (LATTIS-INSa Toulouse University). 2008. “Study of population interaction of type symbiosis, competition or prey–predator from noninvertible discrete maps of dimensions”;
- Carlos Lourenço (Tilburg University). 2008. “Dynamic store price image formation and category pricing”;
- Luís Aguiar Conraria (Universidade do Minho) and Luis Magalhães (Instituto de Ciências Sociais, UL). 2008. “Referendum design, quorum rules and turnout”;
- Anabela Costa (ISCTE Business School). 2008. “Aplicação de modelos de investigação operacional a problemas de avaliação de opções reais”;
- Paulo Almeida (IST). 2008. “Porquê estudar aritmética?”;
- Pierre Lavallée (Statistics Canada). 2009. “Teaching sampling theory without formulas: a utopia?”;
- Maria Paula Brito (Faculdade de Economia da Universidade do Porto). 2009. “Análise de dados simbólicos. O caso particular de dados intervalares”;
- Russell Alpizar-Jara (Universidade de Évora). 2009. “Captura-recaptura: aplicações nas ciências sociais”;
- Jorge Caiado (ISEG). 2010. “The behavior of developed and emerging market returns: a factor analysis approach”;
- Maria Eugénia Ferrão (UBI). 2010. “Adjusting for measurement error and misclassification: Relationship between child exposure to smoke and cognitive development”;

- João Tiago Mexia (UNL). 2010. “O que é estatística”;
- Peter Lawrence (Keele Univ.). 2010. “Financial crisis for economic policy”;
- Quiping A. Wang (ISMANS). 2010. “Long division unities – long union divides: A model for cultural and economic evolution”.

13. Doctoral Program

- The Quantitative Methods Ph.D. Program is coordinated by José Gonçalves Dias and is the result of the joint effort between the Applied Statistics research group and the Econometrics and Econophysics’.
- The Q.M. Ph.D. offers four areas of specialization – Statistics and Data Analysis, Econometrics, Operational Research, and Applied Mathematics.
- It responds to the growing interest shown by both the academic and business sector in a Program capable of combining both worlds: the academic and the entrepreneurial. The following data are on admissions and theses completed:

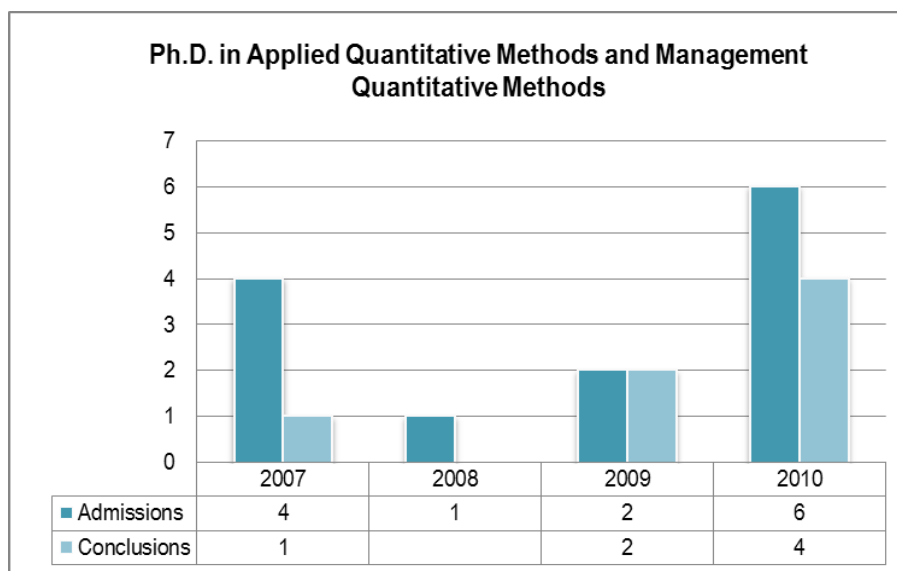


Figure 16 – Doctoral Program Data on Ph.D. in Applied Quantitative Methods and Management of Quantitative Methods.

Ph.D. Theses Completed

Ph.D theses supervised in 2007

- Pedro Miguel dos Santos Dinis Parreira – "Eficácia organizacional em contexto hospitalar: o impacto da complexidade na liderança";
- Raul Laureano – "Localização e previsão de vendas: aplicação aos postos de abastecimento de combustíveis líquidos";
- Leonor Vacas de Carvalho – "Imagem de Marca. Aplicação nas instituições de ensino superior Portuguesas";
- M^a da Graça Trindade – "Modelos latentes de segmentação com dados agregados".

Ph.D theses supervised in 2008

- José Adelino de Matos Afonso – "O capital humano, a empregabilidade e a participação dos empregados no acesso à riqueza criada pela empresa";
- Maria do Carmo Botelho – "Técnicas robustas de estimação. Amostragem, variáveis e dimensões".

Ph.D theses supervised in 2009

- Maria José Felício de Moura e Castro – "Competências de gestão e produtividade organizacional: o caso Português";
- Lourenço Dias A. Da Silva – "Responsabilidade social corporativa como factor de vantagem competitiva e do desenvolvimento sustentável";
- M. Cristina Martins da Luz – "The brand whole – o contributo da publicidade para a integralidade da marca";
- Filomena Carvalho Sousa – "O que é ser "adulto"? Práticas e representações sociais".

Ph.D theses supervised in 2010

- Dália Maria dos Santos Nogueira – “Envelhecimento, longevidade e condições de saúde. Estudo prospetivo dos impactos socioeconómicos da incapacidade na população portuguesa”;
- Catarina Maria Valente Antunes Marques – “On the heterogeneity: an application to the visitors of Portuguese protected areas”;
- Paulo Ribeiro – “Determinantes na percepção de qualidade do serviço educacional: abordagem pelo aluno do ensino superior

14. Internationalization

- In 2009 Carmo Botelho became the National Sampling Manager in the Program of the International Assessment of Adult Competencies (PIAAC), an OECD project, promoted in Portugal by CIES/ISCTE;
- Since 2010 the important outreach activity of this dynamic Group includes the publication of the international peer reviewed journal “Portuguese Journal of Quantitative Methods”;
- Members of this Group are actively collaborating with researchers from the University of Southampton (UK) and the Groningen University (Netherlands), where they have established links when doing their Ph.D.

15. Government/ Organization Contract Research

- Project nr. PTDC/MAT/099275/2008, “The construction of a Complexity Classification System for Inpatient Rehabilitation Facilities”, alongside with ACSS-Ministry of Health, whose main objective is to develop a patient classification system for financing purposes (two year project, 2009 to 2011);
- Project nr. PTDC/GES/72784/2006, “Modeling socio-economic change using longitudinal data”;
- Project nr. PTDC/EGE/GES/103223/2008, “Developing and extending regime switching models in finance and accounting”;
- Project nr. PTDC/CSDEM/108033/2008, “Measuring household wealth and living conditions in less developed countries: a statistical exploration of data from the demographic and health surveys”;

- Project “Census 2011” with INE – Statistics Portugal: the main objective of this project is the design of quality control and evaluation of processes instruments to be applied in the 2011 Census in Portugal; it includes the identification of the Strategic frameworks, Objectives, Indicators, Goals, Targets, Tolerances, and Actions to take for each process during the Census 2011 (five year project between 2009 and 2012).

Econometrics and Econophysics Area Subject Group

Research Group Title: **Econometrics and Econophysics**

Principal Investigator: Sofia Portela

Main Scientific Domain: Econometrics and Econophysics

Home Institution: ISCTE-IUL Instituto Universitário de Lisboa

The Group of Econometrics and Econophysics was set up in 2010 and gathers researchers from the Department of Quantitative Methods and from the Business School's Department of Economics with a common interest in econometrics and econophysics.

1. Group's Internal Organization

The Group of Econometrics and Econophysics currently has fourteen (14) researchers, all considered eligible for funding – seven (7) due to participation in a funded project; two (2) to conclusion of doctoral degree less than 3 years ago; and thirteen (13) to publications (either one (1) ISI or three (3) N-ISI), which signifies that most of them comply with more than one rule for integrated membership.

ECONOMETRICS and ECONOPHYSICS Group			
Members:	Eligible	Associate	Assistant
1. Ana Sousa Ferreira	E		
2. Ana Figueiredo Martins	E		
3. Felipa Dias de Mello Sampayo	E		
4. Francisco Humberto Fortes Camões Costa	E		
5. José Carlos de Castro Pinto	E		
6. José Joaquim Dias Curto	E		
7. Luís Filipe Farias Sousa Martins	E		

8. Manuel Alberto Martins Ferreira	E		
9. Maria Margarida Guerreiro Martins dos Santos Cardoso	E		
10. Marina Alexandra Pedro Andrade	E		
11. Nuno Rafael Barbosa de Jesus Ferreira	E		
12. Rui Manuel Campilho Pereira de Menezes	E		
13. Sofia de Sousa Vale	E		
14. Sofia Portela	E		

Figure 17 – Group's internal organization.

2. Researchers

Currently, three (3) out of the fourteen researchers have completed their Doctoral studies abroad (Univ. of Keele; Pennstate Univ. (U.S.A.); Univ. of Birmingham (U.K.). Regarding researchers affiliated in other Universities, the Group has one (1) member affiliated in Fac. Psicologia of the Universidade de Lisboa. Furthermore, the Group has successfully attracted one (1) researcher from the U.K.:

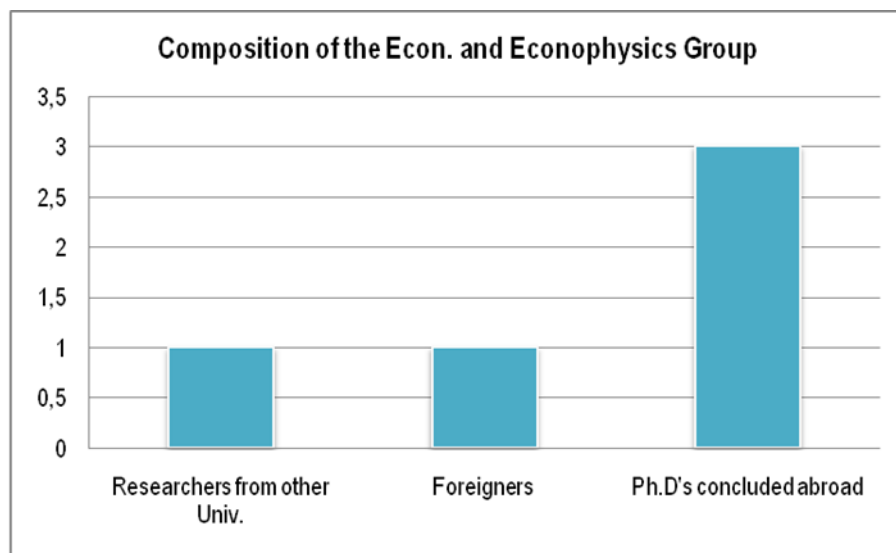


Figure 18 – Current distribution of researchers - foreigners, PhDs abroad, from other Universities.

3. Funding sources, Dates

As an autonomous group within the unit's structure since 2010, the Econometrics and Econophysics Research Group participates in four active research projects funded by the F.C.T.:

Research projects completed in 2010

- "New frontiers in applied quantitative management and finance: nonlinear econometric models, fractional cointegration and econophysics". Project nr. PTDC/GES/73418/2006, coordinated by Rui Manuel Menezes, with total budget of 63,782.00€;
- "New developments in cointegration subject to structural changes". Project nr. PTDC/ECO/68367/2006, coordinated by Luís Filipe Martins, with a total budget of 21,000.00€.

Research projects active in 2010

- "Health and economic growth". Project nr. PTDC/EGE/ECO/104157/2008, coordinated by Felipa Dias de Mello Sampayo, with total budget of 29,190.00€;
- "Corporate governance in medium income countries: the case of Portugal". Project nr. PTDC/GES/72859/2006, coordinated by José Paulo Esperança (Finance Research Group), with total budget of 163,033.00€.

4. Objectives

The Group was constituted in 2010 and comprises researchers from the Department of Quantitative Methods and of Economics with a common interest in econometrics and econophysics. Our aim is mainly the development of quality research in the fields of econometrics and econophysics - theoretical or applied to Economics, Finance, Marketing and General Management. In 2010, our objectives were:

- To develop research publishable in well reputed international journals;
- To increase the number of scientific projects funded, for example, by F.C.T.;
- To promote the integration of researchers in international research networks;
- To attract top national and international researchers to the Group;
- To strengthen group members' participation in refereed and prestigious conferences;
- To develop synergies with Ph.D. Programs across several disciplines.

5. Main Achievements

The main achievements of the recently formed Group since 2010 and of its researchers from 2007 to 2009 can be summarized as follows:

- Over the reported period, researchers now regrouped under the Econometrics and Econophysics' umbrella published 27 articles in ISI indexed journals and 34 articles in other international peer reviewed journals, of which 7 and 18 respectively were published in 2010. Four articles were also published in national peer reviewed journals in 2010. The distribution per year is as follows:

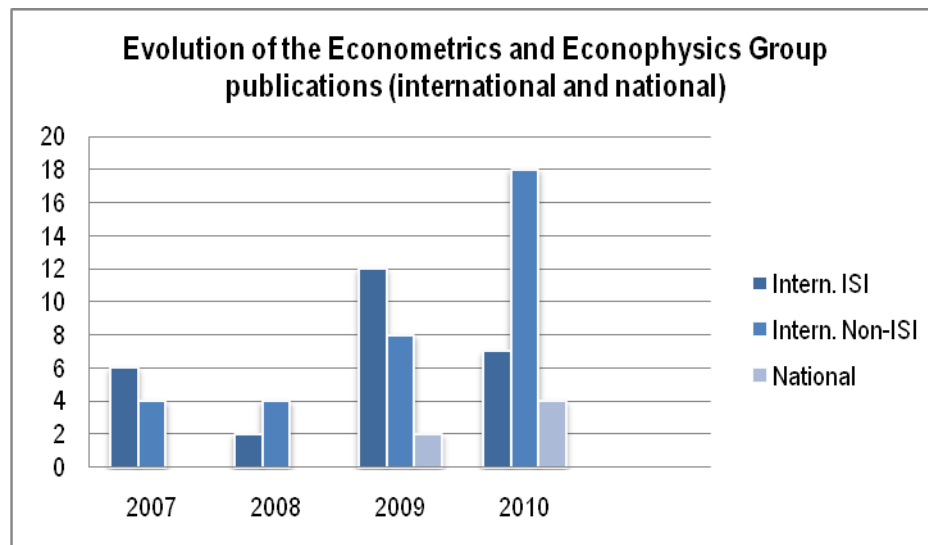


Figure 19 – Evolution of international and national publications from 2007 to 2010.

- Regarding previous information on recently approved admission and tenure rules, the graph shows the ratios of each year's publications to the total number of eligible members (14):

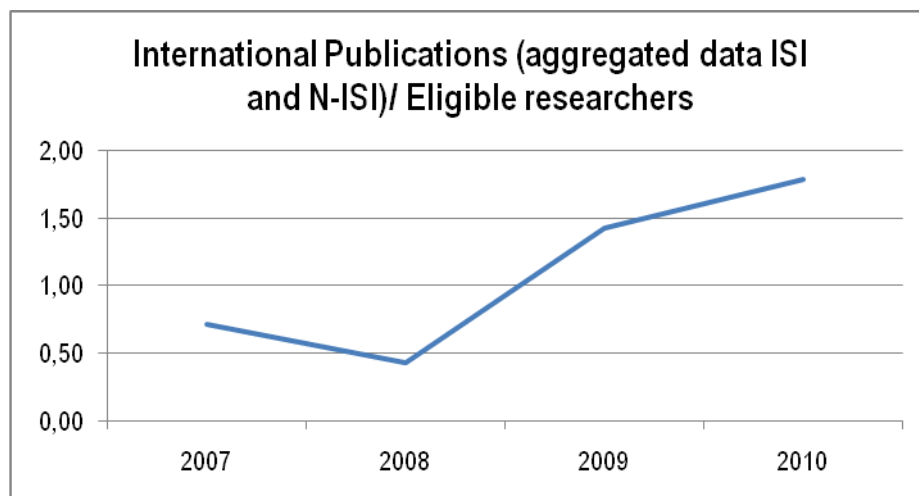


Figure 20 – Publications per eligible members from 2007 to 2010.

- Members of this Group completed two research projects (numbers. PTDC/GES/73418/2006 and PTDC/ECO/68367/2006) in 2010;
- 31 articles of researchers from this Group were accepted in 2010 to be published in international peer reviewed journals in 2011;
- 1 article by researchers from this Group was accepted in 2010 to be published in a national peer reviewed journal in 2011;
- Researchers from this Group published 10 international book chapters and 7 were accepted to be published in 2011;
- Researchers from this Group presented papers in both national (for example Sociedade Portuguesa de Estatística or JOCLAD, Jornadas de Classificação e Análises de Dados) and international scientific (for example the EMAC) conferences and about 55% and 37.5% of them respectively were published in the conference proceedings;
- Only in 2010, researchers from this Group supervised 17 PhD dissertations and 44 Master dissertations, and 8 PhD dissertations were successfully concluded in this period.

6. Publications in Peer Reviewed Journals

ISI Publications

1. Curto, J. D. & Pinto, J. C. 2007. New multicollinearity indicators in linear regression models. ***International Statistical Review***, 75(1): 114-121.
2. Curto, J. D. 2007. Modelling heavy tails and asymmetry using ARCH-type models with stable paretian distributions. ***Nonlinear Dynamics***, 51(1-2): 231-243.
3. Dionísio, A. & Menezes, R. & Mendes, D.A. 2007. On the integrated behavior of non-stationary volatility in stock markets. ***Physica A***, 382(1): 58-65.
4. Fonseca, J. R. S. & Cardoso, M G. M. 2007. Mixture-model cluster analysis using information theoretical criteria. ***Intelligent Data Analysis***, 11(2): 155-173.

5. Menezes, R. & Ferreira, N. & Mendes, D.A. 2007. Asymmetric conditional volatility in international stock markets. *Physica A*, 382(1): 73-80.
6. Pinto, J. C. & Curto, J. D. 2007. The organizational configuration concept as a contribution to the performance explanation: the case of the pharmaceutical industry in Portugal. *European Management Journal*, 25(1): 60-78.
7. Bentes, S. & Menezes, R. & Mendes, D. 2008. Long memory and volatility clustering: is the empirical evidence consistent across stock markets?. *Physica A*, 387(15): 3829-3830.
8. Curto, J. D. & Pinto, J. C. & 2008. Correction note on new multicollinearity indicators. *International Statistical Review*, 76(2): 298-299.
9. Adragão, T. & Herberth, J. & Monier-Faugere, M. & Branscum, A. & Ferreira, A. & Frazão, J. & Curto, J. D. & Malluche, H. 2009. Low Bone Volume: A Risk Factor for Coronary Calcifications in Hemodialysis Patients. *Clinical Journal of the American Society of Nephrology*, 4(2): 254-257.
10. Adragão, T. & Pires, A. & Birne, R. & Curto, J. D. & Lucas, C. & Gonçalves, M. & Negrão, A. P. 2009. A plain X-ray vascular calcification score is associated with arterial stiffness and mortality in dialysis patients. *Nephrology Dialysis Transplantation*, 24(3): 997-1002.
11. Cardoso, M. G. M. S. & Carvalho, A. & Ponce de Leon, F. 2009. Quality indices for (practical) clustering evaluation. *Intelligent Data Analysis*, 13(5): 725-740.
12. Curto, J. D. & Pinto, J. C. 2009. The coefficient of variation asymptotic distribution in case of non-iid random variables. *Journal of Applied Statistics*, 36(1): 21-32.
13. Curto, J. D. & Tomaz, J. A. & Pinto, J. C. 2009. A new approach to bad news effects on volatility: the Multiple-Sign-Volume sensitive regime EGARCH model (MSV-EGARCH). *Portuguese Economic Journal*, 8: 23-36.
14. Ferreira, M. A. M. & Andrade, M. 2009. A note on Dawnie Wolfe Steadman, Bradley J. Adams, and Lyle W. Konigsberg statistical basis for positive identification in forensic anthropology. *American Journal of Physical Anthropology*, 131: 15-26.
15. Ferreira, M. A. M. & Andrade, M. 2009. The ties between the M/G/oo queue system transient behavior and the busy period. *International Journal of Academic Research*, 1(1): 84-92.
16. Ferreira, M. A. M. & Filipe, J. A. & Coelho, M. 2009. The importance of the enlargement of economic exclusive zones for the fisheries. *International Journal of Academic Research*, 1(2): 158-161.

17. Martins, L. F. & Gabriel, V. J. 2009. New Keynesian Phillips curves and potential identification failures: a generalized empirical likelihood analysis. ***Journal of Macroeconomics***, 31(4): 561-571.
18. Martins, L. F. 2009. Nonparametric unit root tests and dramatic shifts with infinite variance processes. ***Journal of Applied Statistics***, 36: 547-571.
19. Mello-Sampayo, F. 2009. Competing destinations formulation of the Gravity model: an application to the geographic distribution of USA multinational enterprises' activities. ***Applied Economics***, 41(17).
20. Sousa Ferreira, A. & Lima, R. 2009. Discriminant analysis in career studying "decision/indecision": the Career Factors Inventory (CFI) as a diagnostic measure. ***Spanish Journal of Psychology***, 13(12): 927-940.
21. Bierens, H., & Martins, L. F. 2010. Time varying cointegration. ***Econometric Theory***, 26: 1453- 1490.
22. Curto, J. D., & Pinto, J. C. 2010. The corrected VIF (CVIF). ***Journal of Applied Statistics***, 37(9): 1360-0532.
23. Gabriel, V., & Martins, L. F. 2010. Cointegration test under multiple regime shifts: an application to the stock price-dividend relationship. ***Empirical Economics***, 39(2): 303-617.
24. Gabriel, V., & Martins, L. F. 2010. The cost channel reconsidered: a comment using an identification-robust approach. ***Journal of Money, Credit and Banking***, 42: 1703 – 1712.
25. Matos, M. C., Ferreira, M. A. M., & Andrade, M. 2010. Code form game. ***International Journal of Academic Research***, 2(1): 135-141.
26. Mello-Sampayo, F., Sousa Vale, S., & Camões, F. 2010. Delaying the timing of offshoring low-skilled tasks. ***Economic Modelling***, 27(5): 951-958.
27. Tavares, S., Cardoso, M., & Dias, J. G. 2010. The heterogeneous best-worst choice method in market research. ***International Journal of Market Research***, 52(4): 533-546.

N-ISI Publications

1. Fonseca, J. R. S. & Cardoso, M. G. M. S. 2007. Supermarket customers segments stability. ***Journal of Targeting, Measurement and Analysis for Marketing***, 15(4): 210-221.
2. Mello-Sampayo, F. & Sousa Vale, F. S. & Camões Costa, F. 2007. The dynamics of FDI relocation of production. ***International Advances in Economic Research***, 13(3).
3. Mello-Sampayo, F. 2007. The location of the United States' FDI under the Share Gravity model. ***International Economic Journal***, 21(4).
4. Dionísio, A. & Menezes, R. & Mendes, D. & Silva, J. V. 2007. Nonlinear dynamics within macroeconomic factors and stock market in Portugal 1993-2003. ***Applied Econometrics and International Development***, 7-3 (Sept.-Dec.).
5. Abrantes, D. & Pontes, M. L. & Pinheiro, M. F. & Andrade, M. & Ferreira, M. A. M. 2008. Towards a systematic probabilistic evaluation of parentage casework in Forensic Genetics: a modest attempt to define a general standardized approach to simple and complex cases. ***Forensic Science International: Genetics Supplement Series***, 1(1): 635-637.
6. Andrade, M. & Ferreira, M. A. M. & Filipe, J. A. 2008. Evidence evaluation in DNA mixture traces. ***Journal of Mathematics, Statistics and Allied Fields*** (Scientific Journals International-Published online), 2(2): 1-5.
7. Duarte Silva, M. E. & Carreira C. & Ferreira, A. S. & Costa, C. 2008. Widowhood: the experience of loneliness and subjective well-being. ***Journal of Experiential Psychotherapy of the Romanian Society for Experiential Psychotherapy***, 44: 46-50.
8. Ferreira, M. A. M. & Andrade, M. & Filipe, J. A. 2008. The Ricatti equation in the M/G/oo system busy cycle study. ***Journal of Mathematics, Statistics and Allied Fields***, 2(1): 1-5.
9. Andrade, M. & Ferreira, M. A. M. 2009. Criminal and civil identification with DNA databases using Bayesian networks. ***International Journal of Security-CSC Journals***, 3(4): 65-74.
10. Curto, J. D. & Pinto, J. C. & Tavares, G. 2009. Modeling stock markets' volatility using GARCH models with Normal, Student's t and stable Paretian distributions. ***Statistical Papers***, 50(2): 311-321.
11. Ferreira, M. A. M. & Andrade, M. & Filipe, J. A. & Selvarasu, A. 2009. The management of a two echelons repair system using queueing networks with infinite servers nodes. ***Annamalai International Journal of Business Studies & Research***, 1(1): 32-37.

12. Ferreira, M. A. M. & Andrade, M. & Filipe, J. A. 2009. Networks of queues with infinite servers in each node applied to the management of a two echelons repair system. **China-USA Business Review**, 8(8): 39-45.
13. Ferreira, M. A. M. & Andrade, M. 2009. M/G/oo queue system parameters for a particular collection of service time distributions. **African Journal of Mathematics and Computer Science Research**, 2(7): 138-141.
14. Justo, M. R. M. & Marques, J. & R. M., A. & Sousa Ferreira, A. 2009. Caesarean birth vs. vaginal delivery. Effects upon maternal satisfaction, maternal confidence and maternal perception of the newborn behavior. **International Journal of Developmental and Educational Psychology**, XXI 2(1): 45-57.
15. Martins, A. A. & Pinto, I. & Cardoso, M. G. M. S. 2009. Multidimensional unfolding and the use of alternative input scales. **Journal of Targeting, Measurement and Analysis for Marketing**, 17: 195-204.
16. Martins, A. A. & Pinto, I. & Cardoso, M. G. M. S. 2009. Using multidimensional unfolding in plant breeding programs. **Biometrical Letters**, 46(1): 55-70.
17. Andrade, M., Ferreira, M. A. M., Abrantes, D., Pontes, M. L., & Pinheiro, M. F. 2010. Object-oriented Bayesian networks in the evaluation of paternities in less usual environments. **Journal of Mathematics and Technology**, 1(1): 161-164.
18. Andrade, M., & Ferreira, M. A. M. 2010. Solving civil identification cases with DNA profiles databases using Bayesian networks. **Journal of Mathematics and Technology**, 1(2): 37-40.
19. Andrade, M. 2010. A note on foundations of probability. **Journal of Mathematics and Technology**, 1(1): 96-98.
20. Coelho, M. P., Filipe, J. A., & Ferreira, M. A. M. 2010. Sociology of crime and punishment: enforcement and compliance in the European fisheries. **Annals of Marine Sociology**, XIX: 47-57.
21. Ferreira, M. A. M., Andrade, M., & Matos, M. C. 2010. Separation theorems in Hilbert spaces convex programming. **Journal of Mathematics and Technology**, 1(5): 20-27.
22. Ferreira, M. A. M., & Andrade, M. 2010. Algorithm for the calculation of the Laplace-Stieltjes transform of the sojourn time of a customer in an open network of queues, with a product form equilibrium distribution...". **Journal of Mathematics and Technology**, 1(4): 31-36.
23. Ferreira, M. A. M., & Andrade, M. 2010. Looking to a M/G/oo system occupation through a Ricatti equation. **Journal of Mathematics and Technology**, 1(2): 58-62.

24. Ferreira, M. A. M., & Andrade, M. 2010. M/G/oo queue busy period tail. ***Journal of Mathematics and Technology***, 1(3): 11-16.
25. Ferreira, M. A. M., & Andrade, M. 2010. M/M/m/m queue system transient behavior. ***Journal of Mathematics and Technology***, 1(1): 49-65.
26. Ferreira, M. A. M., & Filipe, J. A. 2010. Economic crisis: using M/G/oo queue systems busy period to solve logistics problems in an organization. ***China-USA Business Review***, 9(9): 59-63.
27. Ferreira, M. A. M. 2010. A note on Jackson networks sojourn times. ***Journal of Mathematics and Technology***, 1(1): 91-95.
28. Filipe J. A., Ferreira, M. A. M., Coelho, M., & Pedro, M. I. 2010. Managing complexity: a problem of chaos in Fisheries policy. ***China-USA Business Review***, 9(3): 15-23.
29. Filipe, J. A., Ferreira, M. A. M., Coelho, M., Pedro, M. I., & Andrade, M. 2010. Analysing Fisheries management through complexity and chaos theories framework. ***International Journal of Academic Research- Journal of Mathematics and Technology***, 1(2): 5-12.
30. Laureano, R., Mendes, D., & Ferreira, M. 2010. Efficient synchronization of one-dimensional chaotic quadratic maps by different coupling terms. ***International Journal of Academic Research, Journal of Mathematics and Technology***, 1(1): 5-12.
31. Pedro, M. I., Filipe, J. A., Ferreira, M. A. M., & Selvarasu, A. 2010. Franchising networks internationalization: a model conception. ***The IASMS Journal of Business Spectrum*** (A Bi-annual Journal from Indian Academy School of Management Studies), III(1): 14-29.
32. Pinto, J. C., Silva, A. F., & Curto, J. D. 2010. Determinant values in the medical act of prescribing in the Portuguese context. ***Journal of Medical Marketing***, 10(3): 213-230.
33. Portela, S., & Menezes, R. 2010. An Empirical investigation of the factors that influence the customer churn in the Portuguese fixed telecommunications industry: a survival analysis. ***The Business Review***. 14(2): 98-103.
34. Portela, S., & Menezes, R. 2010. Analysing the customer churn risk using duration models. ***Journal of Combinatorics, Information and System Sciences***, 35(1-2): 203-220.

7. Impact of Scientific Production

The “SJR – cites per doc (2 years)” is computed using the average number of citations to articles published in science and social science journals, and therefore used as a proxy for the relative importance of a certain journal within its field. The table below presents aggregated statistical information on the Econometrics and Econophysics Group’s articles with available “SJR”, and the following graphic depicts the average and total number of articles with available “SJR” per year:

ECONOMETRICS and ECONOPHYSICS

“SJR - Cites per Doc. (2y)” computes the average number of citations to articles published in science and social science journals and used as a proxy for the relative importance of a certain journal. Additionally, the indicator is not available to all Journals.

Average of Published Articles' SJR	1,094
Standard Deviation of Published Articles' SJR	1,120
Total of Published Articles' SJR	28,454
Highest SJR	5,330
Lowest SJR	0,068

Figure 21 – Aggregated statistical information on the Group's SJR.

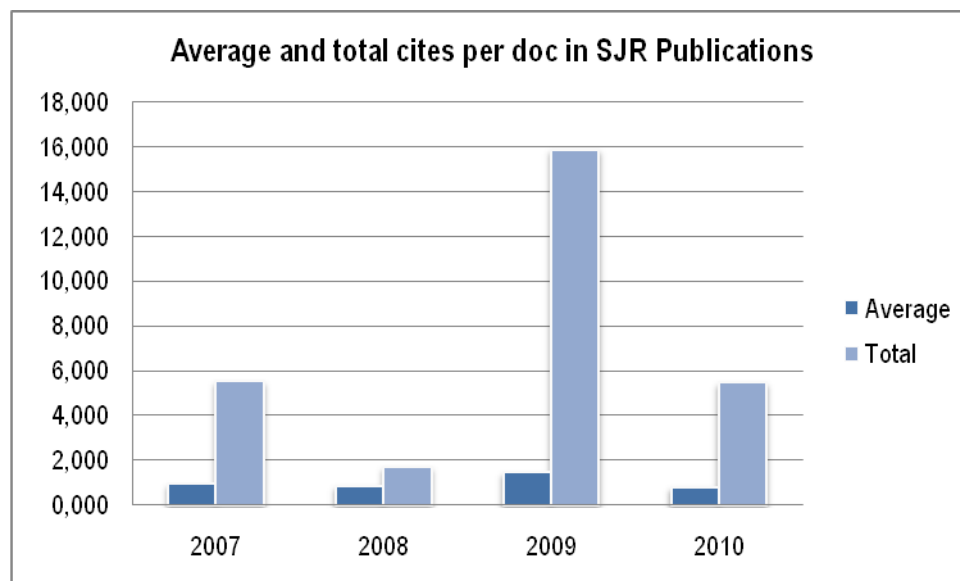


Figure 22 – Average and total cites per doc in SJR Publications.

8. National Publications (Examples)

1. Ferreira, M. A. M. 2009. Parâmetros relacionados com variáveis aleatórias com funções de distribuição dadas pela coleção. In Salgueiro, M. F., Mendes, D. A., & Martins, L. F. (Eds.), ***Temas em Métodos Quantitativos***, 6 :171-176.
2. Filipe, J. A., Ferreira, M. A. M. , & Coelho, M. 2009. A teoria dos Jogos e os comuns de Pesca. In Salgueiro, M. F., Mendes, D. A., & Martins, L. F. (Eds.), ***Temas em Métodos Quantitativos***, 6 :177-190.
3. Curto, J. D., & Pinto, J. C. 2010. P-norm diagnostic on influential observations. ***Portuguese Journal of Quantitative Methods***, 1(1):25-30.
4. Fagulha, T., Gonçalves, B., & Sousa Ferreira, A. 2010. Olhares sobre a menopausa: prevalência e intensidade da sintomatologia menopáusica em função do nível educacional e zona de residência. ***Revista Portuguesa de Psicologia***, 41:141-156.
5. Gonçalves, B., Fagulha, T., & Sousa Ferreira, A. 2010. Depressão, depressão crónica e sintomatologia depressiva nas mulheres de meia-idade: relação com o nível sócio-cultural e a zona de residência. ***Revista Portuguesa de Psicologia***, 41:119-139.
6. Matos, M. C., Ferreira, M. A. M., Filipe, J. A., & Coelho, M. 2010. Prisoner's Dilemma: cooperation or treason?. ***Portuguese Journal of Quantitative Methods***, 1(1):43-52.

9. International Book Chapters (Examples)

1. Ferreira, N. B., Mendes, D., Mendes, V., & Menezes, R. 2010. Symbolic shadowing and the computation of entropy for observed time series. In H. Takayasu (Editor), ***Econophysics Approaches to Large-Scale Business Data and Financial Crisis***, 10 (3): 227-246. Tokyo: Springer Verlag.
2. Filipe, J. A., Ferreira, M. A. M., & Coelho, M. 2010. Utilization of Resources: an ethical issue. The anti-commons and the aquaculture case. In G. J. M. Costa (Eds.), ***Ethical Issues and Social Dilemmas in Knowledge Management: Organizational Innovation***, :63-78. Hershey, USA: IGI Global.
3. Pedro, M. I., Filipe, J. A., & Ferreira, M. A. M. 2010. The Iberian Franchising Companies. Development of a Model for Internationalization. In A.Surdej, & K. Wach (Eds.), ***Exploring the Dynamics of Entrepreneurship***. Torún-Krakov: Wydawictwo Adam Marszalek.
4. Sampayo, F., Vale, S., & Camões, F. 2010. Accelerating Innovation: National R&D Subsidies versus Foreign R&D Tax Credits (with F. de Mello Sampayo and F. Camões, ISCTE-IUL). In C. Richter, I. Vieira, & C. Vieira (Eds.), ***Globalization New Challenges: Macroeconomic, International Trade and Financial Issues***. Lambert Academic Publishing.

10. Paper Presentation at National and International Conferences (Examples)



Figure 23 – Paper Presentation at National and International Conferences (2007-2010).

The previous graph illustrates the steady evolution of the Group's active participation and contribution through paper presentations at international and national conferences, some examples of which are outlined below:

- Andrade, M., Ferreira, M. A. M., Abrantes, D., Pontes, L., & Pinheiro, M. F. 2007. Towards a systematic probabilistic evaluation of parentage casework on forensic genetics: a modest attempt to define a general standardized approach to simple and complex cases. Communication presented at the **22nd Congress of the International Society for Forensic Genetics**. Denmark.
- Camões, F., Sampayo, F., & Vale, S. 2007. Acerca da avaliação da qualidade de modelos de variável dependente binária em modelos de notação de aceitação de crédito. Communication presented at the **XV Congresso Anual da Sociedade Portuguesa de Estatística**. Lisboa.
- Filipe, J. A., Ferreira, M. A. M., & Coelho, M. 2007. A future new era for Globalization: a generalized problem of unused equipments? A queue model for motor vehicles dismantling and recycling. Communication presented at the **14th Annual International Conference on Advances in Management (ICAM 2007)**. Niagara Falls, Canada.
- Martins, A., Pinto, I., & Cardoso, M. G. M. S. 2007. Avaliação do impacto de escalas alternativas em Multidimensional Scaling Unfolding. Communication presented at the **XV Congresso Anual da Sociedade Portuguesa de Estatística**. Lisbon, Portugal.

- Martins, A. A., Cardoso, M. G. M., & Pinto, I. 2008. Soluções degeneradas em multidimensional unfolding. Communication presented at the ***XV Jornadas de Classificação e Análise de Dados – JOCLAD***. Setúbal, Portugal.
- Coelho, M., Filipe, J. A., Ferreira, M. A. M., & Andrade, M. 2008. On commons, anticommons and the design of natural resources policy. Communication presented at the ***15th Annual International Conference on Advances in Management (ICAM 2008)***. Boston, U.S.A.
- Pedro, M. I. C., Filipe, J. A., & Ferreira, M. A. M. 2008. The Internationalization of Iberian Franchising Companies (Development of a model). Communication presented at the ***31st Institute for Small Business and Entrepreneurship***. Belfast, Northern Ireland.
- Matos, M. C., & Ferreira, M. A. M. 2009. Let the games begin society for computational economics. Communication presented at the ***15th International conference on Computing in Economics and Finance***. University of Technology. Sydney, Australia.
- Menezes, R., Ferreira, A. C., & Portela, S. 2009. Unemployment duration among young graduate job seekers. Communication presented at the ***Applications of Physics in Financial Analysis 7th International Conference***. Tokyo, Japan.
- Menezes, R., & Portela, S. 2009. A logit model of customer churn as a way to improve the customer retention strategy in the fixed telecommunications industry in Portugal. Communication presented at the ***Australian and New Zealand Marketing Academy Conference***. Melbourne, Australia.
- Pedro, M. I. C., Filipe, J. A., Ferreira, M. A. M., & Selvarasu, A. 2009. Franchising networks internationalization: a model conception. Communication presented at the ***ICTBM – 09***. Dubai, UAE.
- Selvarasu, A., Filipe, J. A., Ferreira, M. A. M., & Pedro, M. I. 2009. A strategic profit model. Constructing a model to measure Indian apparel retail performance. Communication presented at the ***16th Annual International Conference on Advances in Management & 2nd Annual International Conference on Social Intelligence***. Colorado Springs, USA.
- Andrade, M., & Ferreira, M. A. M. 2010. Identificação civil com bases de dados de perfis de DNA usando redes Bayesianas. Communication presented at the ***XVII Jornadas de Classificação e Análise de Dados***. ISCTE-UII. Lisbon, Portugal.
- Coelho, M., Filipe, J. A., & Ferreira, M. A. M. 2010. Straddling stocks management and the enlargement of exclusive economic zones. Communication presented at the ***69th International Atlantic Economic Conference***. Prague, Czech Republic.
- Filipe, J. A., & Ferreira, M. A. M. 2010. Proposal for traceability in the cutting area with the application of information technology: real case. Communication presented at the ***17th Annual International***

Conference on Advances in Management & 3rd Annual International Conference on Social Intelligence. Atlanta, USA.

- Marques, A., Sousa Ferreira, A., & Cardoso, M. 2010. Classification and combining models. Communication presented at the **Stochastic Modeling Techniques and Data Analysis International Conference – SMTDA**. Chania, Creta.
- Menezes, R., & S. Portela. 2010. Determinants of customer churn in the fixed telecommunications industry in Portugal: an application of a Logit Model. Communication presented at the **European Marketing Academy Conference (EMAC)**. Copenhagen, Denmark.
- Portela, S., & Menezes, R. 2010. The duration of the customer relationship with fixed telecommunications service providers in Portugal using survival analysis (Best Paper of the Session). Communication presented at the **International Multi-Conference on Complexity, Informatics, and Cybernetics**. Orlando, U.S.A.

12. Publications in Conference Proceedings (Examples)

- Andrade, M., & Ferreira, M. A. M. 2007. Analysis of a DNA mixture sample using object-oriented Bayesian networks. **International Conference of Applied Mathematics – Aplimat 2007**. Bratislava.
- Andrade, M., & Ferreira, M. A. M. 2007. Mixture traces: comparison of several hypothesis. **Proceedings of the 56th Session of the ISI- 2007**. Lisbon.
- Duarte Silva, M. E., Figueiras, V., & Sousa Ferreira, A. 2007. Social support as an effect to psychological well-being in elderly people. In A. L. Comunian, & R. Roth (Eds.), **64th Annual Convention International Council of Psychologists**, :87-394. Aachen: Shaker Verlag.
- Andrade, M., Ferreira, M. A. M., Abrantes, D., Pontes, L., & Pinheiro, M. F. 2008. Redes bayesianas object-oriented na apreciação de paternidades em contextos menos usuais. **Actas do XV Congresso Anual da Sociedade Portuguesa de Estatística**. Lisbon.
- Coelho, M., Filipe, J. A., Ferreira, M. A. M. e Andrade, M. 2008. On commons, anticommons and the design of natural resources policy. **Proceedings of the 15th Annual International Conference on Advances in Management**. Boston, U.S.A.
- Ferreira, M. A. M., Filipe, J. A., Coelho, M., & Andrade, M. 2008. An infinite servers model for motor vehicles dismantling and recycling in a scarce energy ambience. **Proceedings of the 14th**

International Conference of the Slovak Society for Operations Research. High Tatras-Tatranská Lomnica, Slovakia.

- Martins, A. A., & Cardoso, M. G. M. S. 2008. Avaliação do impacto de escalas alternativas em Multidimensional Scaling Unfolding. In Hill, M. M., Ferreira, M. A., Dias, J. G., Salgueiro, M. F., Carvalho, H., Vicente, P., & Braumann, C. (Eds.), **Estatística: Da Teoria à Prática, Actas do XV Congresso Anual da Sociedade Portuguesa de Estatística**, :351-363. Edições SPE.
- Silvestre, C., Figueiredo, M., & Cardoso, M. G. M. S. 2008. Clustering with finite mixture models and categorical variables. In Brito, P. (Ed.), **Proceedings in Computational Statistics**. Physica-Verlag (CD-ROM).
- Caetano, A. P., Freire, I. & Sousa Ferreira, A. 2009. Perfis do mediador sócio-educativo - entre a diversidade algumas convergências. **X Congresso Internacional Galego-Português de Psicopedagogia**. Braga, Universidade do Minho. ISBN-978-972-8746-71-1, 348-358.
- Portela, S., & Menezes, R. 2009. Modelling customer lifetime in a contractual setting using duration models: the case of the Portuguese fixed telecommunications industry. **The 8th International Conference on Applied Mathematics (APLIMAT 2009)**. Bratislava, Slovakia.
- Santos, M. V., Sousa Ferreira, A., & Freire, I. 2009. Representações acerca da liderança e da colaboração em contexto escolar. **Actas do XVII Colóquio da AFIRSE**. Faculdade de Psicologia e de Ciências da Educação, Universidade de Lisboa.
- Andrade, M., & Ferreira, M. A. M. 2010. Identificação Civil com bases de dados de perfis de DNA usando redes Bayesianas. **Proceedings of the XVII Jornadas de Classificação e Análise de Dados**. Lisboa: ISCTE-IUL.
- Andrade, M., & Ferreira, M. A. M. 2010. Civil identification problems with bayesian networks using official DNA databases. **Proceedings of the International Conference on Applied Mathematics (Aplimat 2010)**. Bratislava, Slovakia.
- Coelho, M., Filipe, J. A., & Ferreira, M. A. M. 2010. On Commons and Metaphors. **Proceedings of the 16º Congresso Associação Portuguesa para o Desenvolvimento Regional**. Funchal: Universidade da Madeira.
- Coelho, M., Borges, R., Filipe, J. A., & Ferreira, M. A. M. 2010. Responsabilidade social das empresas em Portugal: a sustentabilidade ambiental enquanto pilar da RSE. **Proceedings of the 16º Congresso Associação Portuguesa para o Desenvolvimento Regional**. Funchal: Universidade da Madeira.

- Ferreira, M. A. M., & Andrade, M. 2010. Algorithm for the calculation of the Laplace-Stieltjes transform of the sojourn time of a customer in an open network of queues with a product form equilibrium distribution, assuming independent sojourn times in each node. ***Proceedings of the International Conference on Applied Mathematics*** (Aplimat 2010). Bratislava., Slovakia.
- Lima, R., Sousa Ferreira, A., & Fraga, S. 2010. A importância da saliência dos papéis em aconselhamento de carreira: um estudo com duas amostras de estudantes do Ensino Superior. In Taveiro, M. C., & Silva, D. A. (Cords.), ***VI Conferência - Desenvolvimento Vocacional: Avaliação e Intervenção***. Escola de Psicologia, Universidade do Minho. ISBN 978-989-96700-3-7. (Electronic publication).
- Marques, A., Sousa Ferreira, A., & Cardoso, M. 2010. Classification and combining models. ***Proceedings of the Stochastic Modelling Techniques and Data Analysis International Conference***. Chania, Crete, Greece. (CD-ROM).
- Marques, A., Ferreira, A. S., Cardoso, M. 2010. Classification and combining models. ***Proceedings of Stochastic Modeling Techniques and Data Analysis International Conference***. Chania, Crete, Greece.
- Marques, A., Ferreira, A. S., & Cardoso, M. 2010. Uma proposta de combinação de modelos em análise discriminante discreta. In I. Oliveira, et al. (Eds.), ***Actas do XVI Congresso da Sociedade Portuguesa de Estatística***, : 393-403. Edições SPE.
- Menezes, R. 2010. Price transmission and the globalization of stock markets: evidence from five countries. ***Proceedings of the Perspectives on Econophysics II***. University of Evora.

13. Organization and Co-Organization of Conferences

Seminar series co-organized by this Group included presentations by:

- Jorge Caiado (ISEG). 2010. “The behavior of developed and emerging market returns: a factor analysis approach”;
- Maria Eugénia Ferrão (UBI). 2010. “Adjusting for measurement error and misclassification: Relationship between child exposure to smoke and cognitive development”;
- João Tiago Mexia (UNL). 2010. “ O que é estatística?”;
- Peter Lawrence (Keele Univ.). 2010. “Financial crisis for economic policy”;

- Ferruccio Bilich (Aveiro Univ.). 2010. “Weighting coefficients versus constraints in mathematical programming”;
- Adriano Mendonça (Santa Maria Federal Univ.). 2010. “Avaliação de um processo produtivo multivariado por meio de técnicas univariadas, na presença de autocorrelação”;
- Milan Terek (University of Economics in Bratislava). 2010. “Normative and descriptive approaches to multiattribute decision making”;
- Eva Muchová (University of Economics in Bratislava). 2010. “The impact of EMU and financial crises on the small open economy (the case of Slovakia)”;
- Quiping A. Wang (ISMANS). 2010. “Long division unities – long union divides. A model for cultural and economic evolution”.

14. Doctoral Program

- The Quantitative Methods Ph.D. Program is coordinated by José Gonçalves Dias. The Program’s study plan clearly results from the joint effort of the Econometrics and Econophysics and the Applied Statistics research groups; the following analysis will therefore be duplicated.
- The Q.M. Ph.D. offers four areas of specialization – Statistics and Data Analysis, Econometrics, Operational Research, and Applied Mathematics – responding to the growing interest shown by both academic and business sector in a Program capable of combining the two worlds: the academic and the entrepreneurial. The following data refers to admissions and theses completed:

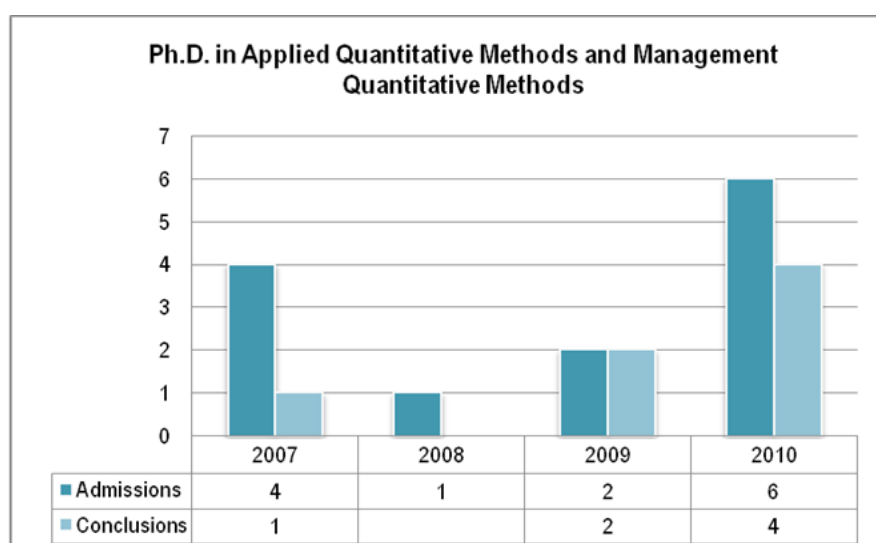


Figure 24 – Doctoral Program Data.

Ph.D. Theses Completed

Ph.D thesis completed in 2007

- Marina Alexandre Pedro Andrade – "A estatística Bayesiana na identificação forense – análise e avaliação de vestígios de DNA com redes Bayesianas".

Ph.D thesis completed in 2008

- Maria do Rosário Domingos Laureano – "Sincronização de sistemas dinâmicos caóticos por ligação unidireccional e bidireccional".

Ph.D theses completed in 2009

- Ana Alexandra Martins – "Avaliação de soluções em multidimensional unfolding";
- Maria Cristina Peixoto Amaral Santos Rodrigues de Matos – "Jogos na forma codificada – outra representação dos jogos".

Ph.D theses completed in 2010

- Nuh Altinsoy – "The organizational alignment in terms of strategy and leadership attributes: an empirical study of their interaction and impact on organizational performance";
- Carlos Pedro dos Santos Gonçalves – "Contributos para os fundamentos categoriais da matemática do risco";
- Sofia Maria Lopes Portela – "Modelling partial customer churn in the Portuguese fixed telecommunications industry by using survival models";
- Sónia Margarida Ricardo Bentes – "Sobre a mediação da volatilidade dos mercados bolsistas: evidências depois de 67".

15. Internationalization

The publication of the international peer reviewed “Portuguese Journal of Quantitative Methods” is an important example of the internationalization and outreach activity of this dynamic Group.

16. Government/ Organization Contract Research

The members of the Econometrics & Econophysics Research Group were Principal Investigators in three active research projects funded by the F.C.T:

- PTDC/ECO/68367/2006 – “New Developments in Cointegration Subject to Structural Changes”;
- PTDC/GES/73418/2006 – “New frontiers in applied quantitative management and finance: nonlinear econometric models, fractional cointegration and econophysics”;
- PTDC/EGE/ECO/104157/2008 – “Health and Economic Growth”.

Economics Area Subject Group

Research Group Title: **Economics**

Principal Investigator: Alexandra Ferreira Lopes

Main Scientific Domain: Economics

Home Institution: ISCTE-IUL Instituto Universitário de Lisboa

The recently formed Economics Group is constituted mainly by researchers from the Economics Department and the Quantitative Methods Department of the ISCTE Business School (IBS).

1. Group's Internal Organization

The Economics Group currently has sixteen (16) researchers, eleven (11) of whom are considered eligible for funding – four (4) due to participation in a funded project; five (5) to conclusion of a doctoral degree less than 3 years ago; and seven (7) to publications (one (1) ISI or three (3) N-ISI), which means that some members are eligible under more than one membership criteria.

ECONOMICS Group			
Members:	Status:		
	Eligible	Associate	Assistant
1. Alexandra Ferreira Lopes	E		
2. Diana Elisabete Mendes	E		
3. Helena Soares Correia Tavares	E		
4. Henrique Currais Monteiro	E		
5. João Carvalho Leão	E		
6. João Lopes Costa		A	
7. Maria Catarina Roseta Palma	E		
8. Maria do Rosário Laureano	E		

9. Mónica Meireles			AI
10. Nádia Nogueira Simões	E		
11. Nuno Pascoal Crespo	E		
12. Orlando da Costa Gomes	E		
13. Sandrina Berthault Moreira			AI
14. Sandro Mendonça			AI
15. Sérgio Manuel Nunes Mendes		A	
16. Vivaldo Pereira Mendes	E		

Figure 25 – Group's internal organization.

2. Researchers

Five (5) out of the sixteen current researchers completed their Doctoral studies abroad (Univ. de Barcelona; MIT-USA; Univ. of Manchester; Univ. of Sussex; Univ. of Oxford). The Group has two (2) external members, affiliated to other Universities, one to ISCAL-Instituto Superior de Contabilidade e Administração de Lisboa and another to ESCE-Escola Superior de Ciências Empresariais (Instituto Politécnico de Setúbal). Moreover, the Group has one (1) foreign researcher (Romanian).

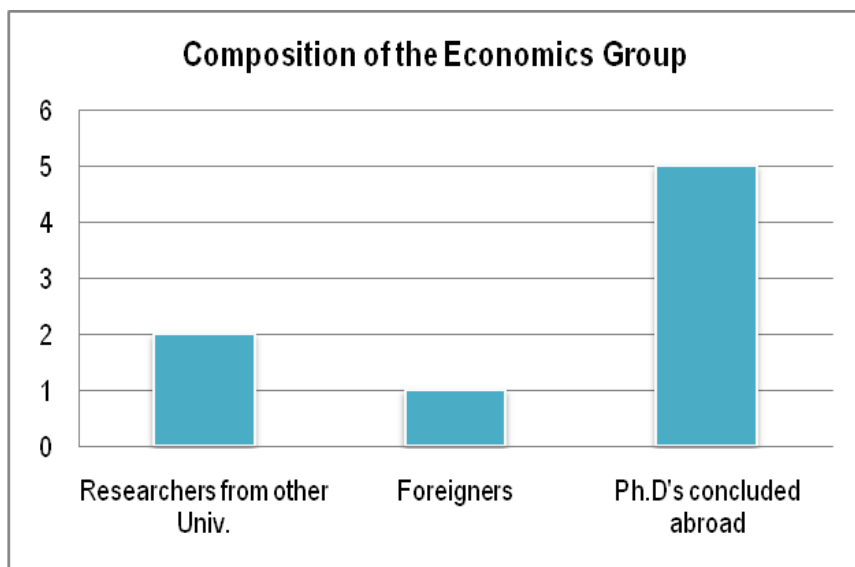


Figure 26 – Current distribution of the Group's researchers: foreigners, doctoral degrees abroad, and researchers from other Universities.

3. Funding sources; Dates

Research projects in which members of the Economics Group have participated throughout the reported period were mainly funded by the F.C.T.:

Research projects active in 2010

- “Poincaré, filósofo da Ciência”. Joint project nr. PTDC/FIL/64748/2006 with the Institut Franco-Portugais from Lisbon, the Université de Lille III, the ISCTE-IUL, and the Universidade de Lisboa (Centro de Filosofia das Ciências da Universidade de Lisboa – CFCUL), with a total budget of 30,000.00€;
- “Externalities, equilibriums, and policy lessons from multi-sector models of endogenous growth”. Project nr. PTDC/EGE-ECO/102238/2008, with a total budget of 101,525.00€. Main researcher: Ana Balcão Reis (INOVA, FE/UNL);
- “Geometria Algébrica”. Project nr. PTDC/MAT/099275/2008, with a total budget of 105,000.00€ (Coordinator Margarida Mendes Lopes, Instituto Superior Técnico);
- “Gender, migration and domestic service: the invisible army of women workers in Portugal”. Project nr. PIHM/GC/0115/2008, with a total budget of 42,260.00 € (Coordinator Maria da Paz Lima, Dinâmia, ISCTE-IUL);
- “ESAWADI - Utilizing the Ecosystem Services Approach for Water Framework Directive Implementation”, IWRM-NET FUNDING INITIATIVE 2010-2012, (Coordinator Philippe Blancher, Asconit).

Research projects completed during the period 2007-2010

- “New frontiers in applied quantitative management and finance: nonlinear econometric models, fractional cointegration and econophysics”. Project nr. PTDC/GES/73418/2006, coordinated by Rui Menezes (from the Econometrics & Econophysics Group), with total budget of 63,782.00€;
- “Exploration of entropy on decision models. Nonlinear dependence, utility and socioeconomics welfare analysis”. Project nr. PTDC/GES/70529/2006, coordinated by Andreia Basílio (from the Universidade de Évora), with total budget of 86,372.00€;
- “Espacios de Moduli de fibrados vectoriales y esquemas de Hilbert”. Project nr. MTM2007-61104, Universidad de Barcelona, Proyecto de Investigación del Programa Nacional de Investigación 2007-2010, Programa Matemáticas, Ministerio de Educación y Ciencia de España;

- “Tarifaqua: tarifários para uma eficiente recuperação dos custos da água”. Project nr. POCI/EGE/61306/2004, coordinated by Catarina Roseta-Palma, with total budget of 16,200.00€.

Research projects that were given grants by the F.C.T. in 2010

- “Pricing and behavioral responses in the water sector”. Project nr. PTDC/EGE-ECO/114477/2009, coordinated by Maria Catarina Roseta-Palma), with total budget of 63,258.00€;
- “Education Mismatches and Productivity Differences”. Project nr. PTDC/EGE-ECO/112499/2009, 16,560.00€ (Coordinator Tiago Neves Sequeira from INOVA – FEUNL and UBI).

4. Objectives

The recently formed Economics Group is constituted mainly by researchers from the Economics Department and the Quantitative Methods Department of the ISCTE Business School (IBS).

Before setting up the Group's, the goals of its researchers were focused on the widening of scientific knowledge in economics, as well as on the integration of its members in the international networks committed to the strengthening and development of this field of study. During 2010 the objectives of this freshly-assembled Group were as follows:

- To produce state-of-the-art research publishable in prestigious international peer-reviewed journals;
- To continue to carry out research projects funded by both national and foreign scientific entities;
- To establish mutually beneficial links with international researchers and institutions;
- To attract researchers from other backgrounds such as mathematics for joint development of research;
- To continue participation in refereed conferences;
- To increase the supervision (and conclusion) of Master and Ph.D. thesis;
- To promote the dissemination of our scientific work to the general public/society.

5. Main Achievements

During the four years under analysis, researchers have worked to strengthen research on economics by publishing articles in peer reviewed journals, books, books chapters, and working papers further presented at national and international conferences. The main achievements of the Economics Group and of their researchers are as follows:

- Members of this Group published 31 articles in ISI indexed journals and 28 articles in other international peer reviewed journals, of which 11 and 9, respectively, were published in 2010. Three articles in national peer reviewed journals were published between 2008 and 2010.
- Journals in which these researchers have published include, for example, World Development, Journal of Common Market Studies, Physica A, Technological Forecasting and Social Change Energy Economics, Ecological Economics, Long Range Planning, Research Policy, Papers in Regional Science, Journal of Evolutionary Economics, Studies in Nonlinear Dynamics and Econometrics or Regional Studies. The distribution per year of published articles is as follows:

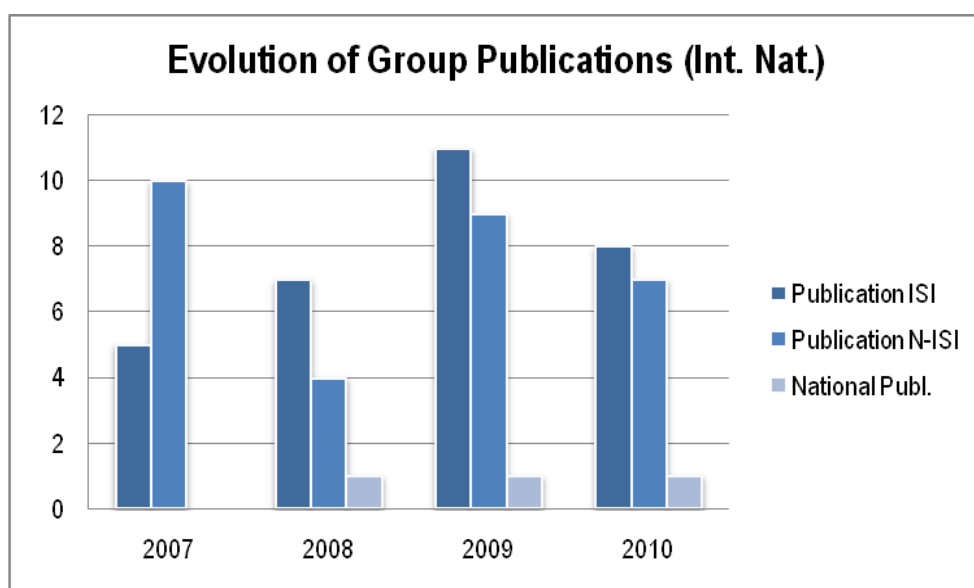


Figure 27 – Evolution of international and national publications from 2007 to 2010.

- Regarding on the above mentioned recently approved admission and tenure rules, the following Figure shows the ratios of each year's publications to the total number of eligible members (11):

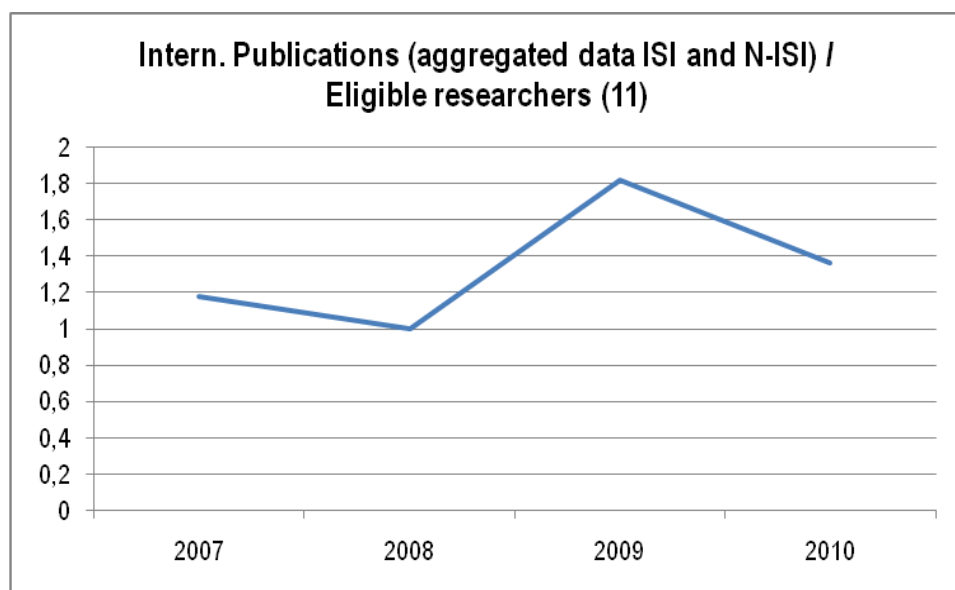


Figure 28 – Publications per eligible members from 2007 to 2010. NB decimals in graph

- 6 Conferences were organized by members of this Group, 3 of which in 2010;
- During 2010 the Economics Group published 2 international edited volumes and 4 national books, as well as 7 international and 17 national book chapters;
- Several members applied and obtained project funding from the F.C.T.;
- Additionally, several members are participating in research projects involving other scientific areas such as sociology, philosophy and psychology (2 projects financed by the F.C.T. with a multidisciplinary scope);
- One of our members (Orlando Gomes) participated in the translation of two text books: (i) Varian, H. R. 2010. **Intermediate microeconomics – a modern approach**. 8ª Edição; and (ii) Burda, M., & Wiplosz, C. 2010. **Macroeconomics – a European text**. 5ª Edição;
- One Group member (Catarina Roseta-Palma) was elected to the Council of the European Association of Environmental and Resource Economists for the period 2010-2013 and is also a member of the Board of the Hispanic-Portuguese Association of Environmental and Natural Resources Economics;
- The Group attracted researchers in mathematics to become members;

- 3 Doctoral theses supervised by researchers who now belong to the Economics Group were completed during the reported period.

6. Publication in Peer Reviewed Journals

ISI Publications

1. Crespo, N. & Fontoura, M. 2007. Determinant factors of FDI spillovers – what do we really know?. **World Development**, 35(3): 410-425.
2. Crespo, N. & Fontoura, M. 2007. Integration of CEECs into EU markets: structural change and convergence. **Journal of Common Market Studies**, 45(3): 611-632.
3. Mendes, S. & Plymen, R. 2007. Base change and K-theory for $GL(n)$. **Journal of Noncommutative Geometry**, 1 (3): 311-331.
4. Mendonça, S. & Fay, F. 2007. Decomposing technological change at the twilight of the twentieth century: evidence and lessons from the world's largest innovating firms. **Innovation: Management, Policy and Practice**, 9(3-4): 311-23.
5. Soares, H. 2007. Steiner bundles on the hyperquadric Q_n , $n \geq 3$. **Communications in Algebra**, 35: 4116-4136.
6. Chrusciel, P., & Costa, J. L. 2008. On uniqueness of stationary vacuum black holes. Géométrie Différentielle, Physique Mathématique, Mathématique et Société, Volume en l'honneur de Jean Pierre Bourguignon (O. Hjazi, éditeur), **Astérisque**, 321: 195--265.
7. Gomes, O. & Mendes, V. & Mendes, D. A. 2008. Bounded rational expectations and the stability of interest rate policy. **Physica A**, 387(15): 3882-3890.
8. Gomes, O. 2008. Decentralized allocation of human capital and nonlinear growth. **Computational Economics**, 31(1): 45-75.
9. Gomes, O. 2008. Too much of a good thing: endogenous business cycles generated by bounded technological progress. **Economic Modelling**, 25(5): 933-945.
10. Mendes, D. A., & Mendes, V. 2008. Stability analysis of an implicitly defined labor market model. **Physica A**, 387(15): 3921-3930.

11. Mendes, D. A., Mendes, V. M., Sousa Ramos, J., & Gomes, O. 2008. Computing topological entropy in asymmetric cournot duopoly games with homogeneous players. ***Advanced Studies in Pure Mathematics***, 100.
12. Miró-Roig, R. M., & Soares, H. 2008. Stability of exceptional bundles on complete intersection 3-folds. ***Proceedings of the American Mathematical Society***, 136: 3751-3757
13. Caraça, J. & Lundvall, B. Å. & Mendonça, S. 2009. The changing role of science in the innovation process: from Queen to Cinderella?. ***Technological Forecasting and Social Change***, 76(6): 861-867.
14. Chrusciel, P. & Costa, J. L. 2009. Mass, angular-momentum, and charge inequalities for axisymmetric initial data. ***Class. Quantum Grav***, 26.
15. Cunha-e-Sá, M. & Balcão-Reis, A. & Roseta-Palma, C. 2009. Technology adoption in nonrenewable resource management. ***Energy Economics***, 31(2): 235-239.
16. Gomes, O. 2009. Stability analysis in a monetary model with a varying intertemporal elasticity of substitution. ***The ICAI Journal of Monetary Economics***, VII(2): 32-41.
17. Gomes, O. 2009. Stability under learning: the endogenous growth problem. ***Economic Modelling***, 26(5): 807-816.
18. Mendonça, S. & Cunha, M. P. & Ruff, F. & Kaivo-oja, J. 2009. Venturing into the wilderness: preparing for wild cards in the civil aircraft and asset-management industries. ***Long Range Planning***, 42(1): 23-41.
19. Mendonça, S. & Sapio, B. 2009. Managing foresight in changing organisational settings: introducing new perspectives and practices. ***Technological Analysis and Strategic Management***, 21(3): 285-289.
20. Mendonça, S. 2009. Brave old world: accounting for “high tech” knowledge in “low-tech” industries. ***Research Policy***, 38(3): 470-482.
21. Miró-Roig, R. M. & Soares, H. 2009. Cohomological characterisation of Steiner bundles. ***Forum Mathematicum***, 21(5): 871--891.
22. Neves Sequeira, T., & Ferreira Lopes, A. 2009. Should the federal government reallocate funds within federal transfers?. ***Public Finance Review***, 37(5): 596-612.
23. Proença, I. & Fontoura, M. & Crespo, N. 2009. FDI spillovers at regional level: evidence from Portugal. ***Papers in Regional Science***, 88(3): 591-607.

24. Cunha, M. C., Clegg, S., & Mendonça, S. 2010. On serendipity and organizing. ***European Management Journal***, 28(5): 319-30.
25. Ferreira-Lopes, A. 2010. In or out? The welfare costs of EMU membership. ***Economic Modelling***, 27(2): 585-594.
26. Gomes, O. 2010. Deterministic randomness in a model of finance and growth. ***Journal of Evolutionary Economics***, 20(1): 95-114.
27. Gomes, O. 2010. Endogenous growth, price stability and market disequilibria. ***Metroeconomica***, 61(1): 3-34.
28. Gomes, O. 2010. Ordinary least squares learning and nonlinearities in macroeconomics. ***Journal of Economic Surveys***, 24(1): 52-84.
29. Gomes, O. 2010. The sticky-information macro model: beyond perfect foresight. ***Studies in Nonlinear Dynamics and Econometrics***, 14(1): 1-35.
30. Roseta-Palma, C., Ferreira-Lopes, A., & Sequeira, T. 2010. Externalities in an endogenous growth model with social and natural capital. ***Ecological Economics***, 69(3): 603-612.
31. Sequeira, T., & Ferreira-Lopes, A. 2010. Does a federal country need federal transfers when it has labor mobility?. ***Regional Studies***, 44 (9): 1117-1129.

N-ISI Publications

1. Crespo, N., & Fontoura, M. 2007. 30 Anos de investigação sobre externalidades do IDE para as empresas domésticas – que conclusões?. ***Estudos Econômicos*** (Universidade de São Paulo), 37(4): 849-874.
2. Gomes, O. & Mendes, V. & Mendes, D. A. & Sousa Ramos, J. 2007. Chaotic dynamics in optimal monetary policy. ***The European Physical Journal B***, 57(2): 195-199.
3. Gomes, O. 2007. Investment in organizational capital. ***Managerial and Decision Economics***, 28(2): 107-113.
4. Gomes, O. 2007. Monetary policy and economic growth: combining short and long run macro analysis. ***Yapi Kredi Economic Review***, 18(2): 3-26.

5. Gomes, O. 2007. Space, growth and technology: an integrated dynamic approach. ***Studies in Economics and Finance***, 24 (4): 248-265.
6. Gomes, O. 2007. The dynamics of growth and migrations with congestion externalities. ***Economics Bulletin***, 15(1): 1-10.
7. Monteiro, H., & Roseta-Palma, C. 2007. Tarifários de abastecimento de água e saneamento em Portugal. ***Reed Business Information***.
8. Monteiro, H. & Ferreira Lopes, A. 2007. A benchmarking of the undergraduate economics major in Europe and the United States. ***International Review of Economic Education***, 6(2): 9-26.
9. Gomes, O. 2008. Imperfect demand expectations and endogenous business cycles. ***Zagreb International Review of Economics and Business***, 11(1): 37-59.
10. Gomes, O. 2008. Can interaction contribute to the explanation of business cycles?. ***International Journal of Social Economics***, 35(3): 159-173.
11. Gomes, O. 2008. Interaction in organizations: a dynamic choice of codes. ***Journal of Socio-Economics***, 37(4): 1570-1583.
12. Gomes, O. 2008. Local learning dynamics. ***Economics Bulletin***, 3(57): 1-15.
13. Januário, C. & Grácio, C. & Mendes, D. & J. Duarte. 2009. Measuring and controlling the chaotic motion of profits. ***International Journal of Bifurcation and Chaos***, 19(11): 3593-3604.
14. Gomes, O. 2009 Stability under learning: the neoclassical growth problem. ***Economics Bulletin***, 29(4): 3186-3193.
15. Gomes, O. 2009 The timing of information updates: a stability result. ***Economics Bulletin***, 29(4): 2864-2873.
16. Gomes, O. 2009. A two-dimensional non-equilibrium dynamic model. ***Structural Change and Economic Dynamics***, 20(3): 221-238.
17. Gomes, O. 2009. Adaptive learning and complex dynamics. ***Chaos, Solitons and Fractals***, 42(2): 1206-1213.
18. Gomes, O. 2009. Constraints on credit, consumer behavior and the dynamics of wealth. ***Economic Annals*** (Ekonomski Anali), LIV(182): 119-131.
19. Gomes, O. 2009. Knowledge accumulation and chaotic business cycles. ***Economic Policy and Economic Trends***, 19(118): 31-57.

20. Gomes, O. 2009. On the stability of endogenous growth models: an evaluation of the agents' response to output fluctuations. *Journal of Economic Studies*, 36(1): 17-35.
21. Mendes, D. A. & Mendes, V. M. & Sousa Ramos, J. & Gomes, O. 2009. Computing topological entropy in asymmetric cournot duopoly games with homogeneous players. *Advanced Studies in Pure Mathematics*, 53(): 169-178.
22. Crespo, N., & Fontoura, P. 2010. Determinant factors of structural similarity at the regional level: evidence from Portugal. *Applied Econometrics and International Development*, 10(1).
23. Crespo, N., Fontoura, P. 2010. Does the location of manufacturing determine services sectors? Location choices? Evidence from Portugal. *Regional and Sectoral Economic Studies*, 10(1).
24. Gomes, O. 2010. Consumer confidence, economic growth and economic cycles. *Journal of Economic Studies*, 37(4): 377-404.
25. Gomes, O. 2010. Diffusion paths: fixed points, periodicity and chaos. *Economics Bulletin*, 30(3): 2413-2424.
26. Gomes, O. 2010. Nonlinear inflation expectations and endogenous fluctuations. *Econophysics - AUCO Czech Economic Review*, 4(3): 263-280.
27. Isfan, M., Mendes, D. A., & Menezes, R. 2010. Forecasting the Portuguese stockmarket time series by using artificial neural networks. *Journal of Physics: Conference Series*, 221(1).
28. Sequeira, T., & Ferreira-Lopes, A. 2010. On the welfare properties of the Lucas and Romer endogenous growth models. *Economics Bulletin*, 30(3): 2143-2150.

7. Impact of Scientific Production

The "SJR – cites per doc (2 years)" is computed using the average number of citations to articles published in science and social science journals, and therefore used as a proxy for the relative importance of a certain journal within its field.

The table below presents aggregated statistical information on the Economics Group's articles with available "SJR", and the following graph depicts the average and total number of articles with available "SJR" per year:

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“SJR - Cites per Doc. (2y)” computes the average number of citations to articles published in science and social science journals and used as a proxy for the relative importance of a certain journal. Additionally, the indicator is not available to all Journals.

Average of Published Articles' SJR	1.054
Standard Deviation of Published Articles' SJR	0.878
Total of Published Articles' SJR	44.275
Highest SJR	3.543
Lowest SJR	0.100

Figure 29 – Aggregated statistical information on the Group's SJR.

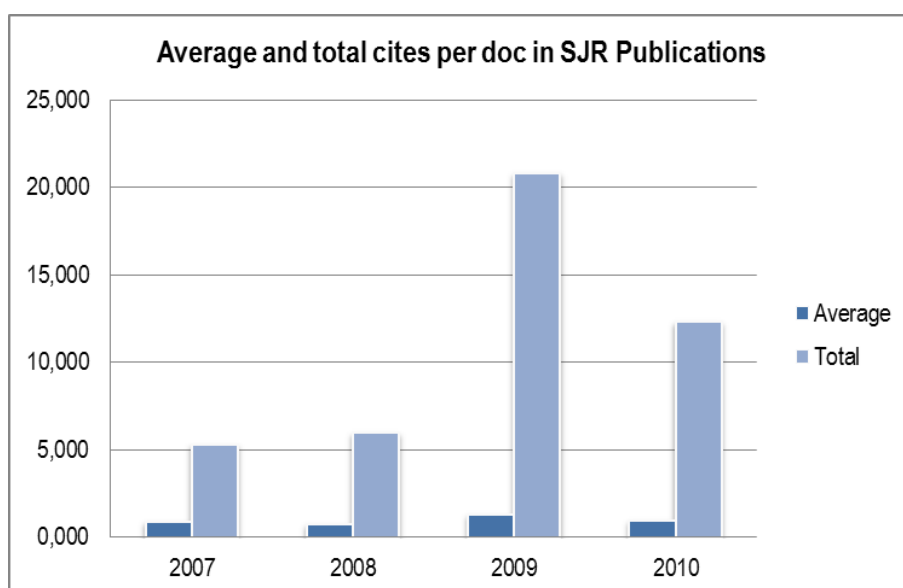


Figure 30 – Average and total number of publications per year with “SJR – cites per doc”.

8. National Publications

1. Roseta-Palma, C. & Meireles, M. 2008. Indicadores de sustentabilidade. *Revista Prospectiva e Planejamento*, 15, 177-206.
2. Cardoso, G., Caraça, J., Espanha, R., & Mendonça, S. 2009. As políticas de Open Access: Res publica científica ou auto-gestão?. *Sociologia Problemas e Práticas*, 60(Maio-Agosto): 53-67.
3. Gomes, O. 2010. On the allocation of credit and aggregate fluctuations. *Revista Brasileira de Economia*, 64(4): 393-404.

9. International Books and Book Chapters (Examples)

1. Gomes, O. 2009. **Principles of economic dynamics**. Punjagutta, Hyderabad: ICFAI University Press.
2. Gomes, O. 2009. **A Dynamic Theory of Communication**. Hauppauge, New York: Nova Science Publishers, Inc..
3. Gomes, O. 2009. Business Cycles in economic theory: exogenous or endogenous?. In Nerea M. Pérez, & June A. Ortega (Eds.). **Recessions: Prospects and Developments**, : 7-44. Hauppauge, New York: Nova Science Publishers, Inc.
4. Gomes, O., Mendes, V., & Mendes, D. 2009. Optimal monetary policy with a partially rational representative agent. In M. Bohner, Z. Dosla, G. Ladas, M. Unal, & A. Zafer (Eds.), **Difference Equations and Applications** (Proceedings of the 14th International Conference on Difference Equations and Applications): 187-194. Istanbul: Ugur-Bahcesehir University Publishing Company.
5. Mendes, D. A., Mendes, V., Sousa Ramos, J., & Gomes, O. 2009. Computing topological entropy in asymmetric cournot duopoly games with homogeneous expectations. In S. Elaydi, K. Nishimura, M. Shishikura, & N. Tose (Eds.), **Advanced Studies in Pure Mathematics 53** (Advances in Discrete Dynamical Systems): 159-168. Tokyo: Mathematical Society of Japan.
6. Cardoso, G., Espanha, R., Caraça, J., & Mendonça S. 2010. The politics of open access policy. In William H. Dutton & Paul Jeffreys (Eds.), **World Wide Research: Reshaping the Sciences and the Humanities in the Century of Information**. Mass, Cambridge: MIT Press.
7. Gomes, O., Mendes, V., & Mendes, D. 2010. Adaptive learning and central bank inattentiveness in optimal monetary policy. In M. Peixoto, A. Pinto, & D. Rand (Eds.), **Dynamics, Games and Science** (: in honor of Maricio Peixoto and David Rand). Berlin: Verlag Geometry & Topology Series, Springer.
8. Januário, C., Grácio, C., Mendes, D. A., & Duarte, J. 2010. Isentropic dynamics and control in an economic model for capital accumulation. In M. Peixoto, A. Pinto & D. Rand (Eds.), **Dynamics, Games and Science**. Springer.
9. Mendes, D., Mendes, V., Ferreira, F., & Menezes, R. 2010. Symbolic shadowing and the computation of entropy for observed time series. In M. Takayasu, T. Watanabe and H. Takayasu (Eds.), **Econophysics Approaches to Large-Scale Business Data and Financial Crisis**. Tokyo: Springer Verlag.

10. National Books and Book Chapters (Examples)

1. Godinho, M., Mendonça, S., & Pereira, T. 2007. Por onde vai a inovação em Portugal? Uma análise integrada das principais tendências de desenvolvimento da ciência e tecnologia desde a década de 1960. In I. Salavisa Lança, W. Rodrigues, & S. Mendonça (Eds.), ***Inovação e Globalização: Implicações para os países de desenvolvimento intermédio***. Lisboa: Campo das Letras.
2. Roseta-Palma, C. 2007. Escassez e preço da água. In ***Reflexos da Água***. Colectânea da Associação Portuguesa de Recursos Hídricos.
3. Salavisa Lança, I., Rodrigues, W., & Mendonça, S. (Eds.). 2007. ***Inovação e Globalização: Implicações para os países de desenvolvimento intermédio***. Lisboa: Campo das Letras.
4. Gomes, O. 2008. ***A Dinâmica da economia internacional***. Colecção Caminhos do Conhecimento, 11. Lisboa: Edições Colibri.
5. Araújo, V., Espanha, R., Neto, P., Mendonça, S., Amaral, S., & Cardoso, G. 2009. Os media em rede: estratégias on e off-line. In G. Cardoso, R. Espanha, & V. Araújo (Eds), ***Da Comunicação de Massa à Comunicação em Rede***. Lisboa: Quimera.
6. Cardoso, G., Espanha, R., & Mendonça, S. 2009. Introdução. In G. Cardoso, F. R. Cádima, & L. L. Cardoso (Eds.), ***Média, Redes e Comunicação: Futuros Presentes***. Lisboa: Quimera.
7. Crespo, N, & Fontoura, M. 2009. Integração Europeia e convergência regional. In P. Lains (Ed.). ***Sem Fronteiras – Os Novos Horizontes da Economia Portuguesa***, :201-222. Instituto de Ciências Sociais, Universidade de Lisboa.
8. Gomes, O. 2009. The dynamics of adaptation and entropy. In M. F. Salgueiro, D. A. Mendes, & L. F. Martins (Eds.), ***Temas em Métodos Quantitativos***, 6: 191-210. Lisboa: Edições Sílabo.
9. Mendes, S. On the Weil groups of local fields. ***Temas em Métodos Quantitativos***, 6 :211-221. Edições Sílabo.
10. Sousa, M.E.F., & Gomes, O. 2009. ***Análise Económica – Conceitos e Exercícios Resolvidos***. Lisboa: Edições Sílabo.
11. Crespo, N., & Fontoura, P. 2010. Integração Europeia e Convergência Regional. In P. Lains (Eds.), ***Sem Fronteiras - Os novos horizontes da economia Portuguesa***, :201-222. Lisboa: Instituto de Ciências Sociais, UL.
12. Cunha, M. P., Cunha, J. V., & Mendonça, S. 2010. ***Empresa, progresso e contestação: o primeiro século de estudos organizacionais***. Lisboa: Sílabo.

13. Mendonça, S. 2010. Concursos internacionais para gestores de topo?. In J. Caraça, & G. Cardoso (Eds.), *Ideias Perigosas para Portugal: Propostas que se Arriscam a Salvar o País*. Lisboa: Tinta da China.
14. Roseta-Palma, C., & Brasão, A. 2010. Strategic games in groundwater management. In E. Sousa Ferreira, J. P. Oliveira, & M. J. Mortágua (Eds.), *Investigação e Prática em Economia*. Principia.
15. Simões, V.C., Roldão, V. S., Bento, P., Crespo, N., Cardoso, G., Sousa, H. P., Godinho, M. M., Camilo, P., Cartaxo, R., & Mendonça, S. 2010. *Estudo de caracterização da actividade de inovação desenvolvida pelas empresas da rede PME inovação COTEC (Estudo ISCTE-ISEG)*. Lisboa: COTEC.

11. Paper presentation at International and National Conferences (Examples)

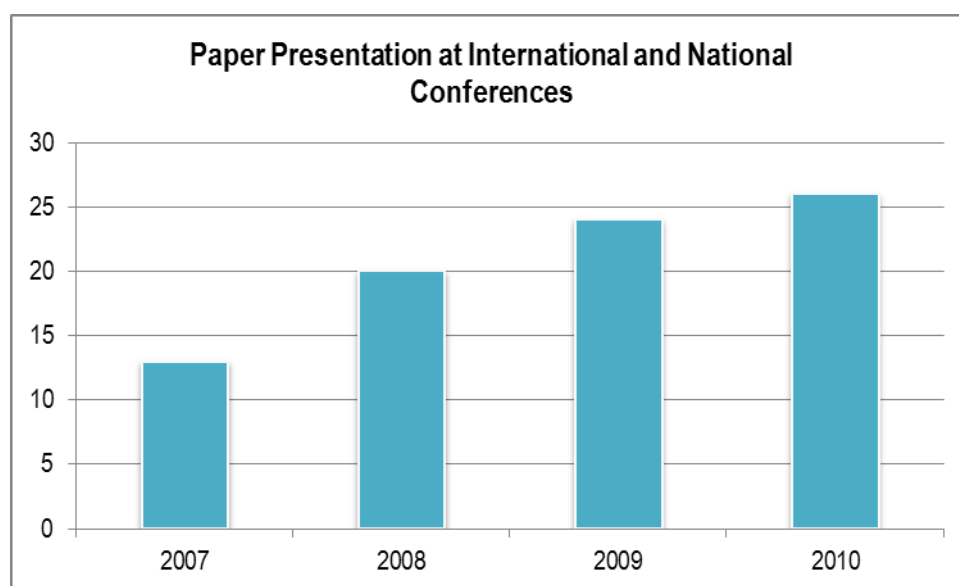


Figure 31 – Paper presentation at International and National Conferences (2007-2010).

The previous graph illustrates the positive evolution of the Group's active participation and contribution through paper presentation at international and national conferences, some examples of which are outlined below:

- Gomes, O., Mendes, D., & Mendes, V. 2007. Unfulfilled rational expectations and the stability of monetary policy. Communication presented at the *12th International Conference on Difference Equations and Applications (ICDEA12)*. IST, Lisbon, Portugal.

- Monteiro, H., & Roseta Palma, C. 2007. Caracterização dos tarifários de abastecimento de água e saneamento em Portugal. Communication presented at the **2.^a Conferência Nacional da Água – PEAASAR 2007-2013: Novos Rumos para a Política da Água em Portugal**. Oeiras, Portugal.
- Sequeira, T., & Ferreira-Lopes, A. 2007. Does a Federal Country Need Federal Transfers when it Has Labor Mobility?. – Paper presented at the **ASSET (Annual Conference of Association of Southern European Economic Theorists)**, Padova, Italy.
- Gomes, O., Mendes, D., & Mendes, V. 2008. Optimal monetary policy with partially rational agents. **14th International Conference on Difference Equations and Applications**. Istanbul, Turkey.
- Mendes, D. 2008. Upper bounds for topological entropy in skew-product maps. Communication presented at the **ICDEA 14 – International Conference on Difference Equations and Applications**. Istanbul, Turkey.
- Monteiro, H., & Roseta Palma, C. 2008. Evolução dos tarifários de abastecimento de água e saneamento em Portugal. – Paper presented at the **9.º Congresso da Água** (9th Water Congress) organized by the Associação Portuguesa de Recursos Hídricos, Estoril, Portugal.
- Mendes, D., Mendes, V., Ferreira, N. B., & Menezes, R. 2009. Symbolic shadowing and the computation of entropy for observed time series. – Paper presented at the **7th International Conference on Applications of Physics in Financial Analysis (APFA7)**, Tokyo, Japan.
- Mendonça, S. 2009. Telecommunications for the needy: definitional issues and a proposal for a policy agenda. **COST Action 298**. Universidade de Aalborg, Copenhagen, Denmark.
- Roseta Palma, C. 2009. Climate change and agricultura. Communication presented at the **VII Congreso de Economía Agraria**. Almería, Spain.
- Ferreira-Lopes, A., Sequeira, T., & Roseta-Palma, C. 2010. On the effect of technological progress on pollution: a new distortion in an endogenous growth model. Communication presented at the **25th Conference of the European Economic Association**. Glasgow, Scotland.
- Laureano, M., Laureano, R., Mendes, D. A., & Ferreira, M. A. M. 2010. Asymptotic and practical synchronization of one-dimensional chaotic quadratic maps using a non-symmetric coupling. Communication presented at the **CHAOS 2010 - 3rd Chaotic Modeling and Simulation International Conference**. Technical University of Crete, Chania, Crete.
- Soares, H. 2010. Steiner bundles on algebraic varieties. – Paper presented at the **Journées Paloises de Géométrie Algébrique**, Université de Pau et des Pays de l'Adour, France.

12. Publications in Conference Proceedings (Examples)

- Ferreira, N. B., Menezes, R., & Mendes, D. A. 2007. Asymmetric conditional volatility in the stock market: a cross country comparison. ***Proceedings of the 6th International Conference on Applied Mathematics*** (Aplimat), :149-159. Bratislava.
- Ferreira, N. B., Menezes, R., & Mendes, D. A. 2007. Co-movements and asymmetric volatility in the Portuguese and U.S. stock markets. ***Proceedings of the 6th International Conference on Applied Mathematics*** (Aplimat), :187-193. Bratislava.
- Laureano, R., Mendes, D., & Ferreira, M. A. 2007. Efficient synchronization with chaotic quadratic maps. ***6th International Conference on Applied Mathematics*** (Aplimat), :215-223. Bratislava.
- Mendes, S. 2008. Galois-fixed points and K-theory for $GL(n)$. Proceedings of the International Summer School and Workshop "WOAT 2006". ***Operator theory: Advances and Applications***, 181 :309-320. Birkhäuser: Basel.
- Gomes, O., Mendes, V., & Mendes, D. 2009. Optimal monetary policy with partially rational agents. ***Proceedings of the 14th International Conference on Difference Equations and Applications***, :187-194. Istanbul, Turkey: Bahcesehir University Publishing Company.
- Laureano, M., Mendes, D., & Ferreira, M. A. M. 2009. Synchronization of chaotic quadratic maps by a non-symmetric coupling. ***Proceedings of the International Workshop on Nonlinear Maps and their Applications***, IEEE transactions, 1(1):106-110.
- Lopes Costa, J. 2010. Harmonic maps and black holes. ***Spanish Relativity Meeting (ERE 2009)***. Journal of Physics: Conference Series 229 012046.
- Mendonça, S. 2010. Steamships as a high-tech capital good of the past: Technological trends and turning points. ***Jornadas do Mar 2008, Actas do Colóquio***, : 28-35. Alfeite, Portugal.

13. Organization and Co-Organization of Conferences

- "Cost-action ECONTEL Lisbon Workshop". 2008. ISCTE-IUL;
- 3ª Conferência AERNA. 2008. June. Palma de Maiorca. (C. Roseta-Palma - membro do comité científico/ organizador).
- Tenth Annual Global Conference on Environmental Taxation on "Water Management and Climate Change". 2009. Portugal.

- Several members of this Group participated in the organization of the “2010 GIRA Conference” organized by a member of the Finance Group (José Paulo Esperança);
- Helena Soares was local co-organizer of “VBAC 2010, Vector Bundles on Algebraic Curves” (14- 18, June 2010). IST. Lisboa;
- Sandro Mendonça organized the “II Seminário Internacional Propriedade Intelectual nos Países de Língua Portuguesa” (26 -27 February 2010). Lisboa.

14. Ph.D. Theses Completed

Supervised Ph.D. theses completed in 2009

- Rosário Laureano – “Sincronização de sistemas dinâmicos caóticos por ligação unidireccional e bidireccional”;
- Henrique Monteiro – “Water tariffs: methods for an efficient cost recovery and for the implementation of the water framework directive in Portugal”.

Supervised Ph.D. thesis completed in 2010

- Cristina Januário – “Sistemas dinâmicos de baixa dimensão”.

15. Internationalization

Activities undertaken in 2007

- In 2007, researchers participated in a number of international conferences, including the Annual Meeting of the Association for Southern-European Economic Theorists (ASSET) in Padova, Italy), the Annual Meeting of the Portuguese Economic Journal (PEJ) in the Azores, the Applied Environmental Economics Conference (ENVECON) in London, UK, the Annual Conference of the European Association of Environmental and Resource Economists (EAERE) in Thessaloniki, Greece, the International Conference of the European Society for Ecological Economics (ESEE) in Leipzig, Germany, the conference on Nonlinear Dynamics and Chaos: Advances and Perspectives in Aberdeen, UK, and the Workshop on Commutative Algebra and Applications in Barcelona, Spain.

- Catarina Roseta-Palma was a member of the Board of the Spanish-Portuguese Association of Natural Resource and Environmental Economics (AERNA) for the whole 2007-2010 period.

Activities undertaken in 2008

- In 2008, researchers again presented papers at distinguished international conferences, such as the World Congress of the International Economic Association (in Istanbul, Turkey), the Annual Conference of EAERE in Gothenburg, Sweden; the Third Congress of the Spanish-Portuguese Association of Natural Resource and Environmental Economics (AERNA) in Palma de Majorca, Spain, the Annual PEJ Conference, in Évora, and the International Conference on Difference Equations and Applications in Istanbul, Turkey, among others.

Activities undertaken in 2009

- Catarina Roseta-Palma was invited by the Universidad Politécnica de Madrid to lecture Microeconomía Aplicada (Applied Microeconomy) in the Ph.D. in Economía Agraria y de los Recursos Naturales; she was also invited to speak at the “VII Congreso de Economía Agraria” (Spain);
- Sandro Mendonça is member of the management committee of the “Cost Action IS0605: a telecommunications economics” and belongs to working group 1 (“Economics of telecommunications and content distribution technologies”);
- Sandro Mendonça is member of working group 2 (“Decision-making and planning of E.U. peace operations”) of the “SCH Action IS0805 – New challenges of peacekeeping and the European Union’s role in multilateral crisis management”.
- Researchers continued to participate in international conferences, namely, the North American Meetings of the Econometric Society and the Annual Conference of the Industrial Organization Society (both in Boston, USA), the ENVECON Conference in London, UK, the Annual EAERE Conference in Amsterdam, Holland, the ESEE Conference in Ljubljana, Slovenia, the European Congress of the Regional Science Association in Lodz, Poland, the International Conference on Water Economics, Statistics and Finance in Alexandroupolis, Greece, and the International Workshop on Nonlinear Maps and their Applications in Urbino, Italy.

Activities undertaken in 2010

- Catarina Roseta-Palma was elected to the Council of the European Association of Environmental and Resource Economists for the period 2010-2013.;
- Sandro Mendonça is a member of the International Network DIME (Dynamics of Institutions and Markets in Europe) and of the International Network PRIME (Policies for Research and Innovation in the Move towards the European research area). Both DIME and PRIME are European Research Networks of Excellence;
- Sandro Mendonça is also on the executive committee of Obercom (the national observatory of media industry) and member of the Management Committee of the COST Action ISO605 – A Telecommunications Economics COST Network;
- João Leão is currently exercising directorial functions in the Ministry of Economics, which entail his participation in several international councils, including the OECD;
- Nádia Simões is the Portuguese expert of the SYSDem network and also a member of the International Network “Mutual Learning Program” (European Employment Strategy);
- In 2010, researchers attended a number of prestigious international conferences, such as the Annual Meeting of the European Economic Association in Glasgow, UK, the AERNA Conference in Gran Canaria, Spain, the PEJ conference in Faro, ICABE 2010 – the International Conference on Applied Business & Economics in Coruña, Spain and the International Conference "Developments in Economic Theory and Policy" in Bilbao, Spain, the GIRA Conference in Lisbon and the Workshop on Measuring, Mapping and Modelling Technical Change in Pisa, Italy. Finally, it should be noted that several members have been engaged in refereeing activities for national and international peer reviewed journals.

16. Government/ Organization Contract Research

- “New frontiers in applied quantitative management and finance: nonlinear econometric models, fractional cointegration and econophysics”. Project nr. PTDC/GES/73418/2006, coordinated by Rui Menezes.
- "Pricing and behavioral responses in the water sector". Project nr. PTDC/EGE-ECO/114477/2009, coordinated by C. Roseta-Palma.

Finance Area Subject Group

Research Group Title: **Finance**

Principal Investigator: João Pedro Pereira

Main Scientific Domain: Finance

Home Institution: ISCTE-IUL Instituto Universitário de Lisboa

The Finance Group comprises researchers with special interest in and motivation for the development of research within the finance field of studies. The Group's activity over the four-year period under analysis is also scrutinized in this sub-chapter.

1. Group's Internal Organization

The Finance Group currently has fourteen (14) researchers, all considered eligible for funding – five (5) due to conclusion of doctoral degree less than 3 years ago; nine (9) to participation in a funded project; and again nine (9) to publications (either one (1) ISI or three (3) N-ISI), which means that most of them comply with more than one rule for integrated membership.

FINANCE Group			
Members:	Status:		
	Eligible	Associate	Assistant
1. Alberta di Giuli	E		
2. António Barbosa	E		
3. António Manuel Corte Real de Freitas Miguel	E		
4. Carlos Manuel Coelho Duarte	E		
5. João Pedro Sousa Pereira	E		
6. João Vidal Nunes	E		
7. José Gonçalves Dias	E		

8. José Paulo Afonso Esperança	E		
9. Luís Ferreira Oliveira	E		
10. Luís Laureano	E		
11. Marek Jochek	E		
12. Maria Helena Veiga	E		
13. Mohamed Azzim Gulamhussen	E		
14. Sofia Correia Brito Ramos	E		

Figure 32 – Group's internal organization.

2. Researchers

Currently, nine (9) out of the fourteen researchers have completed their Doctoral studies abroad (Bocconi Univ.; Carnegie Mellon; Univ. of North Carolina; Warwick Univ.; European Univ. Institute (Florence); Univ. of Illinois; Univ. Autònoma de Barcelona; Harvard Univ.; Univ. de Lausanne (Switzerland)). The Group has three (3) researchers who are affiliated to other Universities (Univ. Carlos III (Spain); ISCAC; I.P. Tomar). Furthermore, the Group has successfully attracted four (4) researchers from 1 from Italy, 1 from Czech Republic, 1 from Spain, and 1 from Mozambique:

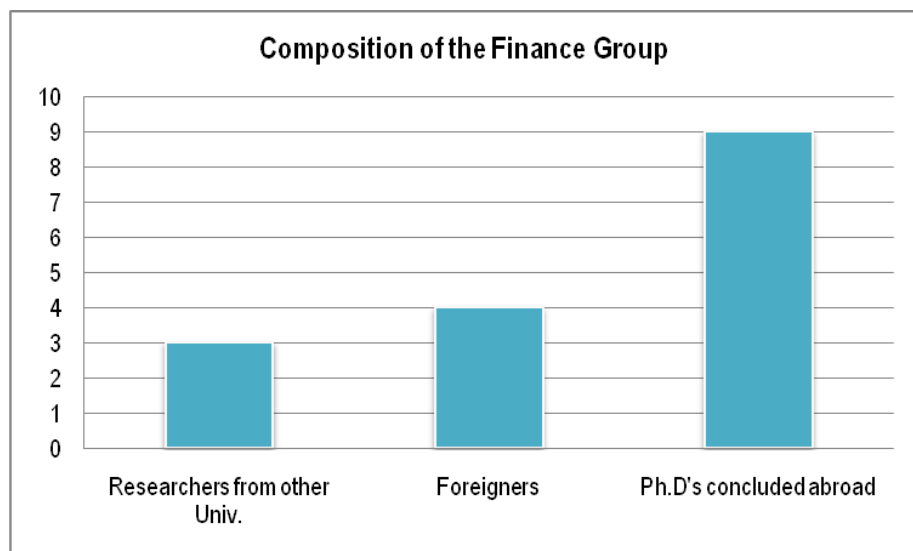


Figure 33 – Current distribution of the Group's researchers: foreigners, doctoral degrees abroad, and researchers from other Universities.

3. Funding sources; Dates

Research projects undertaken over the reported period by the Finance Group were mainly funded by the F.C.T., autonomous projects and the Finance Department budget from the Doctoral Program. Several researchers in the Finance Group are principal investigators in the F.C.T. research projects, some of which involve international researchers and UNIDE members from other Groups.

Research projects completed in 2010

- “International corporate governance and financial markets”. Four years project (2007-2010) nr. PTDC/GES/65650/2006, coordinated by Clara Costa Raposo (with a total budget of 198,000.00€) and by Paulo Esperança (with total budget of 163,033.00€).

Research projects expected to terminate in the 1st semester of 2011

- “Corporate governance in medium income countries: the case of Portugal”. Project nr. PTDC/GES/72859/2006, coordinated by Paulo Esperança, with total budget of 163,033.00€.

Research projects being undertaken

- “Decisões de exercício antecipado em contextos de incerteza e de taxas de juro estocásticas” (“Early exercise decisions under uncertainty and stochastic interest rates”). Project nr. PTDC/EGE-ECO/099255/2008, with researchers João Pedro Vidal Nunes, Luis Alberto Ferreira Oliveira, George Skiadopoulos, and José Carlos Gonçalves Dias. It is expected to terminate in May, 2012;
- “Developing and extending regime switching models in finance and accounting” Project nr. PTDC/EGE-GES/103223/2008, coordinated by J. G. Dias (from the Applied Statistics Group), with total budget of 24,340.00€.

Research projects for initiation in 2011 (projects awarded grants by the F.C.T.)

- “Performance persistence and the smart money effect in mutual funds – international evidence”. Project nr. PTDC/EGE-GES/112820/2009, coordinated by Sofia Correia Brito Ramos, with total budget of 45,310.00€;
- “Banking: globalization, governance and regulation”. Project nr. PTDC/EGE-ECO/114977/2009, coordinated by Mohamed Azzim Gulamhussen, with total budget of 99,711.00€.

4. Objectives

The regular research activity of the Finance Group is freely developed by its members according to their research interests. The researchers in this Group established the following objectives:

- To produce publishable research in internationally reputed journals;
- To attract national and international scholars to undertake research with members of the Group;
- To continue disseminating investigation output and bringing in top researchers to present papers at the conferences organized annually by the Group;
- In the same spirit, the series of finance seminars are good proof of the Group's dynamic nature, as they continue to attract the world's top researchers in the field;
- To strengthen the Group's joint doctoral Program with the University of Delaware;
- To consolidate our substantial investment in financial databases considered essential for the production of high quality research conclusions;
- To attract a reasonable number of national and international Ph.D. students with the ability to develop high-quality research;
- To further strengthen the links with the banking and finance industry.

5. Main Achievements

- Over the reported period, researchers from this group published 19 articles in ISI indexed journals and 6 articles in other international peer reviewed journals. In addition to identifying where the Finance Group publishes most, the following graph also shows the evolution of this indicator over the last four years:

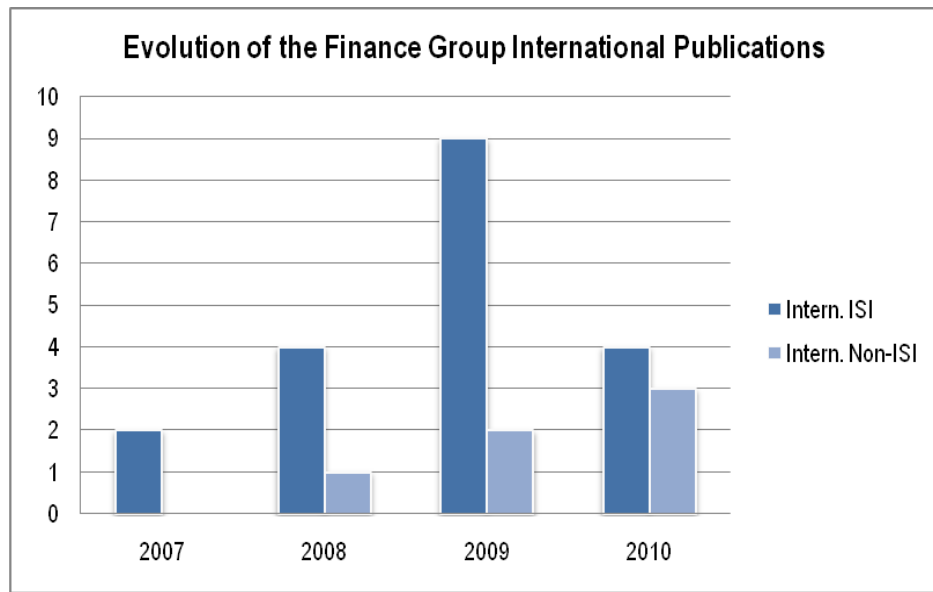


Figure 34 – Evolution of international and national publications from 2007 to 2010.

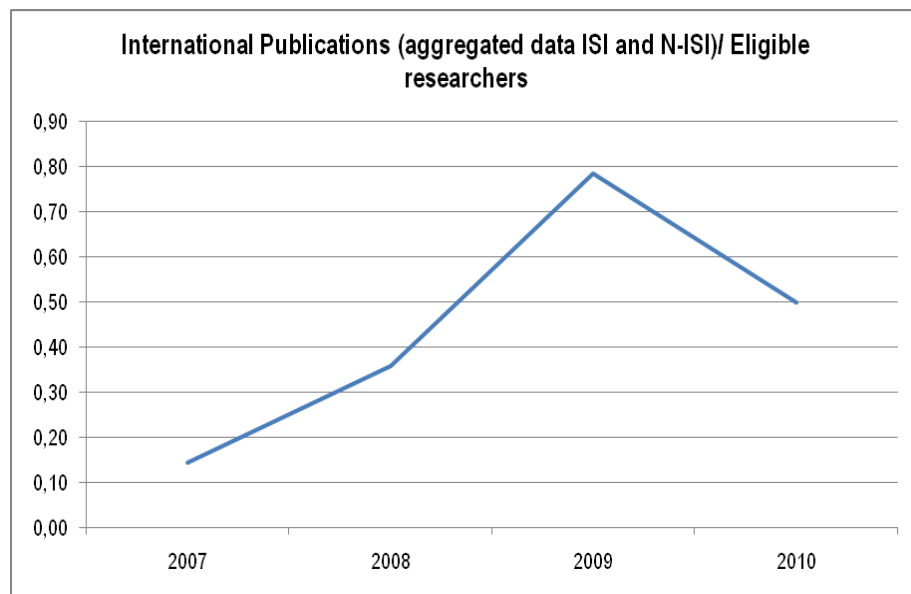


Figure 35 – Publications per eligible members from 2007 to 2010.

- Journals in which members of this Group published include the “Journal of Financial and Quantitative Analysis”, the “Review of Derivatives Research”, the “Journal of Futures Markets”, the “European Journal of Operations Research”, or the “Energy Economics”. Mention should be made of the distinction, “The Emerald Excellence Award”, received by one group member for his publication, “Extending internalization theory” published in the International Business Review, considered as one of the Top 50 papers published in 2009;

- Over the period under analysis, members of this Group completed the supervision of 12 Ph.D. theses, with the largest number of thesis were supervised in 2009;
- Members of this research Group participated in several well-established conferences, for example in 2008 the “American Finance Association Annual Meeting”, the “Western Finance Association Annual Meeting”, the “European Association Annual Meeting”, and the “Financial Management Annual Meeting”, and in 2010 the “Midwest Finance Association Conference” (Las Vegas, USA), the “Financial Management Association Annual Meeting” (New York, USA), the “European Finance Association Annual Meeting” (Frankfurt, Germany), the “SIAM Conference on Financial Mathematics & Engineering” (San Francisco, USA), and the “World Congress of the Bachelier Finance Society” (Toronto, Canada);
- Annual conferences organized by this Group’s members have attracted top international and national researchers over the years: in 2008 the conference topic was “Mutual funds and investment management”; in 2009 it was “Mergers and acquisitions”; and in 2010 the Group mobilized several members for the co-organization of the “2010 Gira Conference” and of the “2010 Finance Group Conference”;
- From 2007 to 2010 the Finance Group promoted state-of-the-art research through an annual series of seminars which most speakers find engaging and value adding. These seminars really ensure that Group members keep pace with the most recent advances in theoretical and empirical finance;
- More specifically, during 2008 the Group registered a consistent production of relevant working papers, and managed to publish several articles in top journals, such as the “Journal of Financial Economics”, the “Journal of Empirical Finance”, or the “Journal of Banking and Finance”;
- Promising working papers have also increased the Group’s international visibility, as proved by the award received by two Finance members: the 2008 “Egon Zehnder Prize” for best paper of the European Corporate Governance Institute with “Board structure and price informativeness”;
- In 2008 the Group benefitted from 2 tri-annual research grants headed by Clara Raposo (“International corporate governance and financial markets”, with total budget of 198,000.00€) and José Paulo Esperança (“Corporate governance in middle income countries”, with total budget of 136,000.00€). These grants allowed for greater mobility and investment in fundamental resources, with many workings papers, conference presentations, prizes and theses coming out of these projects;

- The Ph.D. Program is attracting high quality students and seeing benefits from the partnership with Delaware University as the hosting of a Ph.D. student from that institution in 2008 proves;
- Still in 2008, a group of Finance researchers, João Pedro Nunes, João Carlos Dias, and Luís Oliveira, won a research grant from the F.C.T. for a 3-year period;
- In 2009 new members were drawn to the Group, bringing in more energy, research projects, and publications. In 2010 new emerging scholars, both national and international, were also attracted to the Group to undertake joint research;
- 2010 saw the conclusion of one project funded by the F.C.T. in which a member of this Group was the principal researcher (PTDC/GES/65650/2006); the projected conclusion for the 1st semester of 2011 of one project funded by the F.C.T. in which a member of this Group is the principal coordinator (PTDC/GES/72859/2006); and the maintenance of two projects in which members of this Group participate (PTDC/EGE/ECO/099255/2008; PTDC/EGE-GES/103223/2008);
- Also in 2010, one member of this Group completed applied research assignments for a major domestic financial institution.

6. Publications in Peer Reviewed Journals

ISI Publications

1. Gulamhussen, M. 2007. Choice of scale by banks in financial centers. *International Business Review*, 16(4): 507-525.
2. Nunes, J. P. & Oliveira, L. 2007. Multi-factor and analytical valuation of treasury bond futures with an embedded quality option. *Journal of Futures Markets*, 27: 275-303.
3. Ghysels, E. & Pereira, J. P. 2008. Liquidity and conditional portfolio choice: a nonparametric investigation. *Journal of Empirical Finance*, 15(4): 679-699.
4. Ramos, S., & von Thadden, E. 2008. Stock exchanges competition in a simple model of capital market equilibrium. *Journal of Financial Markets*, 11(3): 284-307.

5. Veiga, H. & Grané, A. 2008. Accurate minimum capital risk requirements: a comparison of several approaches. ***Journal of Banking and Finance***, 32(11): 2482-2492.
6. Veiga, H. & Ruiz, E. 2008. Modelling long memory volatilities with leverage effect: A-LMSV versus FIEGARCH. ***Computational Statistics and Data Analysis***, 52(6): 2846-2862.
7. Casson, M. & Dark, K. & Gulamhussen, M. A. 2009. Extending internalization theory. ***International Business Review***, 18(3): 236-256.
8. Dias, J. C. & Shackleton, M. B. 2009. Durable vs. disposable equipment choice under interest rate uncertainty. ***European Journal of Finance***, 15(2): 157-167.
9. Gulamhussen, M. A. & Guerreiro, L. 2009. The influence of foreign equity and board membership on corporate strategy and management of internal costs in Portuguese banks. ***Management Accounting Research***, 20(1): 6-17.
10. Gulamhussen, M. A. 2009. A theoretical perspective on the location of banking FDI. ***Management International Review***, 49(2): 163-178.
11. Nunes, J. 2009. Pricing american options under the constant elasticity of variance model and subject to bankruptcy. ***Journal of Financial and Quantitative Analysis***, 44(5): 1231-1263.
12. Pérez, A. & Ruiz, E. & Veiga, H. 2009. A note on the properties of power-transformed returns in long-memory stochastic volatility models with leverage effect. ***Computational Statistics and Data Analysis***, 53(10): 3593-3600.
13. Ramos, S. 2009. Competition and stock market development. ***European Journal of Finance***, 15(1-2): 231-247.
14. Ramos, S. 2009. The size and structure of the world mutual fund industry. ***European Financial Management***, 15(1): 145-180.
15. Veiga, H. & Vorsatz, M. 2009. Price manipulation in an experimental asset market. ***European Economic Review***, 53(3): 327-342.
16. Bhimani, A. & Gulamhussen, M. A. & Lopes, S. 2010. Accounting and non-accounting determinants of default: an analysis of privately-held firms. ***Journal of Accounting and Public Policy***, 29(6): 517 – 532.
17. di Giuli, A. & Caelli, S. 2010. Does the CFO matter in family firms? Evidence from Italy. ***European Journal of Finance***, 16: 381-411.

18. Nunes, J. P. 2010. American options and callable bonds under stochastic interest rates and endogenous bankruptcy. **Review of Derivatives Research**. Published Online: 27 November.
19. Pereira, J. P. & Zhang, H. H. 2010. Stock returns and the volatility of liquidity. **Journal of Financial and Quantitative Analysis**, 45(4): 1077-1110.

N-ISI Publications

1. Bhimani, A. & Frantz, P. & Gulamhussen, M. A. & Ncube, M. 2008. Collaboration, competition and strategic costing: Knowing when to start learning. **International Journal of Accounting, Auditing and Performance Evaluation**, 5(2): 138-156.
2. Bhimani, A. & Gulamhussen, M. A. & Lopes, S. 2009. The effectiveness of auditor's going concern evaluation as an external governance mechanism: Evidence from bank loan defaults. **International Journal of Accounting**, 44(3): 239-255.
3. Veiga, H. 2009. Financial stylized facts and the Taylor-Effect in Stochastic Volatility models. **Economics Bulletin**, 29(1): 265-276.
4. Benos, E. & Jochev, M. & Nyekel, V. 2010. Can mutual funds time risk factors?. **The Quarterly Review of Economics and Finance**, (50).
5. Benos, E. & Jochev, M. 2010. Short term persistence in mutual fund market timing and stock selection abilities. **Annals of Finance**, :1-26.
6. Duarte, C. & Esperança, J. P. & Curto, J. D. & Santos, M. C. & Carapeto, M. 2010. The determinants of gender pay gap in Portuguese private firms. **Gender in Management an International Review**, 25: 438-461.

7. Impact of Scientific Production

The “SJR – cites per doc (2 years)” is computed using the average number of citations to articles published in science and social science journals, and therefore used as a proxy for the relative importance of a certain journal within its field. The table below presents aggregated statistical information on the Finance Group’s articles with available “SJR”, and the following graph shows the average and total number of articles with available “SJR” per year:

FINANCE

“SJR - Cites per Doc. (2y)” computes the average number of citations to articles published in science and social science journals and used as a proxy for the relative importance of a certain journal. Additionally, the indicator is not available to all Journals.

Average of Published Articles' SJR	0.970
Standard Deviation of Published Articles' SJR	0.584
Total of Published Articles' SJR	24.257
Highest SJR	1.918
Lowest SJR	0.078

Figure 36 – Aggregated statistical information on the Group's SJR.

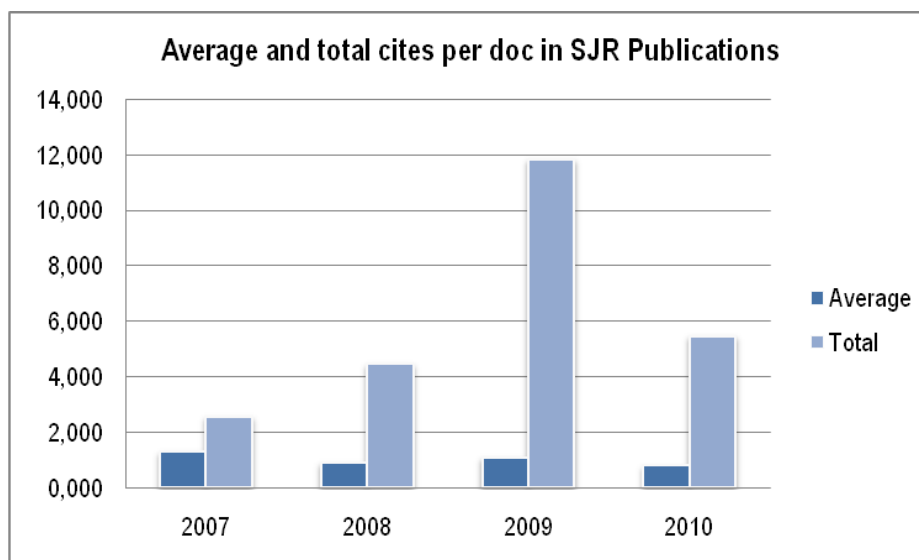


Figure 37 – Average and total number of publications per year with “SJR – cites per doc”.

8. Paper Presentation at International and National Conferences (Examples)

- Esperança, J. P. 2007. Entrepreneurial activity and regional growth in Brazil: an empirical evaluation of regional growth regimes over time and space. Communication presented at the **Babson College Entrepreneurship Conference**. Madrid, Spain.
- Nunes, J. P. 2007 A general characterization of the early exercise premium. Communication presented at the **European Financial Management - 2007 Annual Conference**. Vienna University of Economics and Business Administration. Vienna, Austria.
- Ramos, S. 2007. The determinants of mutual fund performance: a-cross country study. Communication presented at the **42st Annual Conference of the Western Finance Association**. Montana, U.S.A.
- Ramos, S. 2007. The determinants of mutual fund performance: a-cross country study. Communication presented at the **FMA European Conference**. IESE Business School Barcelona. Barcelona, Spain.
- Pereira, J. P. 2008. The complete picture of credit default swaps: a quantile regression approach. Communication presented at the **International Conference on Price, Liquidity, and Credit Risks**. University of Konstanz. Germany.
- Nunes, J. P., & Dias, J. C. 2010. Double barrier options valuation under multifactor pricing models. Communication presented at the **6th World Congress of the Bachelier Finance Society**. Toronto, Canada.

9. Publications in Conference Proceedings (Examples)

- Casson, M., Dark, K., & Gulamhussen, M. A. 2008. Multinational enterprise, imperialism and knowledge-driven state. In Dunning, J. & Gugler, P. (Editors), ***Progress in International Business***. Elsevier Science.
- Dias, J. G., Vermunt, J. K., & Ramos, S. 2008. Heterogeneous hidden markov models. In Brito, P. (Ed.), ***Compstat 2008 Proceedings in Computational Statistics***. Heidelberg: Physica/Springer-Verlag.
- Dias, J. G., Vermunt, J. K., & Ramos, S. 2008. Mixture hidden Markov models in Finance Research. ***Advances in Data Analysis, Data Handling and Business Intelligence***. Berlín: Springer.
- Dias, J. C., & Shackleton, M. B. 2009. Investment hysteresis and hitting time for mean-reverting CIR diffusions. Communication presented at the ***The 13th International Conference on Real Options***. Braga, Portugal, and Santiago, Spain. (CD-ROM).
- Duarte, C., Santos, M., & Simões, J. 2009. Impacte do género nas políticas de remuneração. ***Proceedings of the 15º Congresso da Associação Portuguesa para o Desenvolvimento Regional***, :2801-2829. Universidade Jean Piaget de Cabo Verde.
- Grané, A., & Veiga, H. 2009. Outliers and the estimation of minimum capital risk requirements. In Heras, A., Vilar, J. L., & Guillén, M. (Eds.), ***Investigaciones en Seguros y Gestión de Riesgos***. Fundación MAPFRE. ISBN 978-84-9844-158-1.
- Marques, T., Portugal, M., Suarez, I., Duarte, C., & Santos, J. 2009. Comportamentos desonestos académicos e cultura nacional: evidência de Portugal. ***Proceedings of the 2009 Iberoamerican Academy of Management***. Buenos Aires, Argentina.
- Simões, J., & Duarte, C. 2009. Transferência do conhecimento nas instituições de Ensino Superior público em Portugal. ***Proceedings of the 15º Congresso da Associação Portuguesa para o Desenvolvimento Regional***, :3508-3537. Universidade Jean Piaget de Cabo Verde.
- Larguinho, M., Dias, J. C., & Braumann, C. A.. 2010. Speed and accuracy comparison of noncentral Chi-Square distribution methods for option pricing and hedging. ***6th International Conference of the Portuguese Finance Network***. Ponta Delgada, Azores, Portugal. (CD-ROM, ISBN: 978-972-8612-59-7).

10. Organization and Co-Organization of Conferences

- “Mutual funds and investment management”. 2008. ISCTE-IUL;
- Alberta Di Giuli. 2008-2009/ 2009-2010. “Finance Seminars”. ISCTE/ NOVA (joint conference);
- Alberta Di Giuli. 2009. “Annual Finance Conference”. ISCTE-IUL;
- Members of this Group organized two important international peer reviewed conferences “2010 GIRA CONFERENCE” and “2010 FINANCE GROUP CONFERENCE”, besides the regular seminar series with internationally acclaimed researchers.

Seminar series organized by this Group included presentations by:

- Kjell Nyborg. 2010. “Money and liquidity in financial markets”;
- Wolf Wagner. 2010. “The risk of joint liquidation and portfolio choice: diversity instead of diversification”;
- Gordon Phillips. 2010. “Dynamic product-based industry classifications and endogenous product differentiation”;
- Charu Raheja. 2010. “Internal managerial promotions: Insider incentives and firm valuation”;
- George Skiadopoulos. 2010. “Asset allocation with option-implied distributions: a forward-looking Approach”;
- Alexander Dyck. 2010. “Taxes, valuation and organizational structure”;
- Enrichetta Ravina. 2010. “Risk aversion and wealth: evidence from person-to-person lending portfolios”;
- Roni Michaely. 2010. “What drives the value of analysts’ recommendations: earnings estimates or discount rate estimates”;
- Gilles Chemla. 2010. “Privately optimal securitization and publicly suboptimal risk sharing”;
- Ruediger Fahlenbrach. 2010. “The dark side of outside directors: do they quit when they are most needed?”;
- Stefano Rossi. 2010. “Sovereign default, domestic banks and financial institutions”;
- Xavier Freixas. 2010. “The credit ratings game”;

- Christopher Hennessy. 2010. “A theory of debt market illiquidity and leverage cyclicalitv”;
- Morten Bennesden. 2010. “Political reforms and the causal impact of blood-related politicians on corporate performance”;
- Daniel Gottlieb. 2010. “Will you never learn? Self-deception and biases in information processing”;
- Francois Derrien. 2010. “The real effects of analyst coverage”;
- Ilya Strebulaev. 2010. “Corporate bond default risk: a 150`year perspective”;
- Pedro Matos. 2010. “Lending relationships and the effect of bank distress: evidence from the 2007-2008 financial crisis”.

11. Doctoral Program

- The Finance Ph.D. Program is coordinated by João Pedro Pereira. It is a rigorous program designed to train students to produce high quality research, and therefore appealing to those who wish to become faculty members at research universities or who want to lead research departments at financial institutions. The latter reveals the Program’s high investigation standards. Data on inscriptions and theses completed in this doctoral Program is presented below:

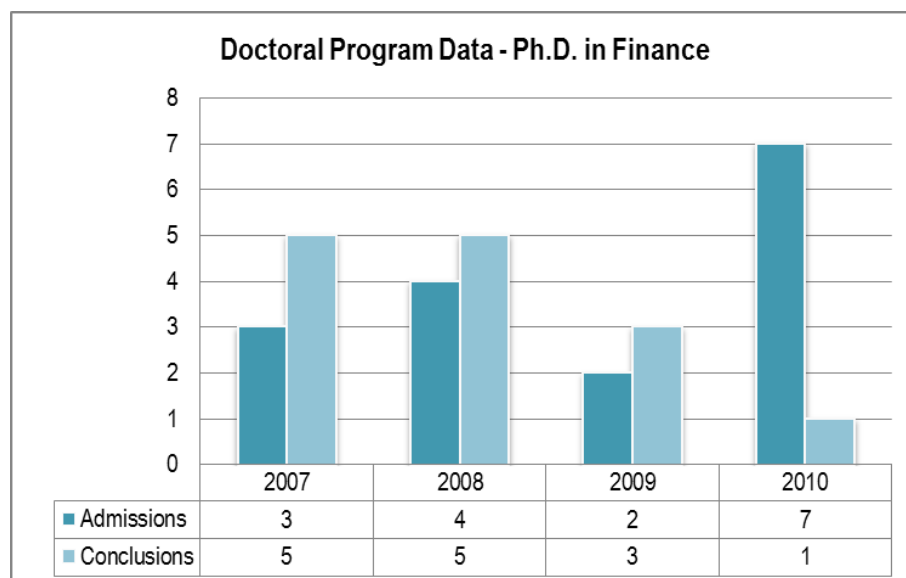


Figure 38 – Doctoral Program Data on Ph.D. in Finance.

Ph.D. Theses Completed

Ph.D thesis supervised in 2007

- Luís Oliveira – "HJM term structure models: implementation issues and valuation of interest rate derivatives".

Ph.D. theses supervised in 2008

- Cristina Gaio – "Three essays on earnings quality";
- Luís Pinheiro – "Essays on bank risk management";
- Paulo Alves – "Essays on international capital markets";
- Luís Pacheco – "Essays on initial stock repurchases".

Ph.D. theses supervised in 2009

- Maria Iolanda Wane – "O papel da Corporate Governance no processo de criação de valor para a sustentabilidade das empresas do Estado em Moçambique";
- António Sarmento Baptista – "Credit scoring: uma metodologia de gestão para a prevenção e redução do crédito malparado";
- António Manuel Sarmento Batista – "Credit scoring: uma metodologia de gestão para a prevenção e redução do crédito malparado";
- Joao Abrantes Costa – "Determinantes do valor das empresas: uma aplicação às empresas europeias";
- Pedro Leite Inácio – "IPO's e eficiência informacional nos anúncios dos resultados";
- Samuel José Rocha Lopes – "Essays on credit risk management for firms".

Ph.D. thesis supervised in 2010

- Luís Miguel da Silva Laureano – "Essays on debt maturity".

12. Internationalization

- Most of the published working papers are in co-authorship with colleagues from schools in the U.S.A., the U.K., or other European countries, which immediately assures the acceptance of the scientific production by the international community. More specifically, researchers from this Group actively collaborate and publish with researchers from foreign universities from where they obtained their Ph.D.s. Examples include the University of North Carolina (U.S.), Carnegie Mellon (U.S.) and the University of Illinois;
- The Ph.D. Program aims to be increasingly international. The growing involvement in our partnership with the University of Illinois has in fact materialized in the exchange of faculty members, and of students;
- In 2009 the research project funded by the F.C.T. “Decisões de exercício antecipado em contextos de incerteza e de taxas de juro estocásticas” (“Early exercise decisions under uncertainty and stochastic interest rates”) ([PTDC/EGE-ECO/099255/2008](#)) initiated and it was projected to terminate in May, 2012. Researchers involved: João Pedro Vidal Nunes, Luis Alberto Ferreira Oliveira, George Skiadopoulos, and José Carlos Gonçalves Dias;
- In 2009, Group member Helena Veiga lectured Econometrics I for a Ph.D. course at the Universidad Carlos III in Madrid;
- Researcher Sofia Ramos was session chair at the 2009 Annual Finance Conference on “Mergers and acquisitions”, and again that year session chair and in the Program committee of the 2009 Financial Management Association;
- Seminar series and annual conferences have proved two other successful ways of attracting international recognition;
- The Group attracted some national (José Carlos Dias and Carlos Duarte) and international (Alberta di Giulli and Marek Josech) researchers to base their research at UNIDE;
- A member of this Group (José Paulo Esperança) coordinates the ISCTE-MIT VENTURE COMPETITION.

13. Government/ Organization Contract Research

- “Decisões de exercício antecipado em contextos de incerteza e de taxas de juro estocásticas” (“Early exercise decisions under uncertainty and stochastic interest rates”). Project nr. PTDC/EGE-ECO/099255/2008 initiated in 2009 and expected to terminate in May, 2012. Researchers involved: João Pedro Vidal Nunes, Luís Alberto Ferreira Oliveira, George Skiadopoulos, and José Carlos Gonçalves Dias;
- “International corporate governance and financial markets”. Project nr. PTDC/GES/65650/2006;
- “Corporate governance in medium income countries: the case of Portugal”. Project nr. PTDC/GES/72859/2006;
- “Early exercise decisions under uncertainty and stochastic interest rates” Project nr. PTDC/EGE/ECO/099255/2008;
- “Banking: globalization, governance and regulation”. Project nr. PTDC/EGE-ECO/114977/2009;
- “Performance persistence and the Smart Money effect in mutual funds – international evidence”. Project nr. PTDC/EGE-GES/112820/2009.

General Management Area Subject Group

Research Group Title: **General Management**

Principal Investigator: Nelson António

Main Scientific Domain: General Management

Home Institution: ISCTE-IUL Instituto Universitário de Lisboa

The recently constituted General Management Group comprises researchers from the Management Research Center. In 2010, this broader Department was sub-divided into three different Groups with narrower and more specific fields of research: the General Management Group; the Marketing Group; and the Organizational Behavior and Human Resources Group.

1. Group's Internal Organization

The General Management Group currently has sixteen (17) researchers, eight (8) of whom are eligible for funding – three (3) due to conclusion of doctoral degree less than 3 years ago; one (1) to participation in a funded project; and the other four (5) to publications (either one (1) ISI or three (3) N-ISI).

GENERAL MANAGEMENT Group			
Members:	Status:		
	Eligible	Associate	Assistant
1. Ana Lúcia Martins	E		
2. Alexandra Etelvina Marques Fernandes	E		
3. Álvaro Augusto da Rosa		A	
4. António da Silva Robalo		A	
5. João Carlos Rosmaninho de Menezes	E		
6. João Manuel Vilas-Boas da Silva		A	
7. Jorge Francisco Lengler		A	

8. José António Bonito Filipe	E		
9. José Arménio Rego	E		
10. José Duarte Moleiro Martins	E		
11. José Luís Crespo de Carvalho		A	
12. José Poças Rascão		A	
13. Maria Isabel Vieira Nicolau		A	
14. Nelson José dos Santos António	E		
15. Paulo Alexandre Bento Fernandes		A	
16. Pedro Miguel de Almeida Fontes Falcão	E		
17. Vítor Sequeira Roldão		A	

Figure 39 – Group's internal organization

2. Researchers

Currently, four (4) Group researchers have completed their Doctoral studies abroad (Cranfield Univ.; Univ. College Dublin (Ireland); Bergishen Univ. (Germany); Univ. of Manchester). The Group has one (1) researcher affiliated to another University (ISCAL-IPL). Furthermore, the Group has successfully attracted one (1) researcher from Italy.

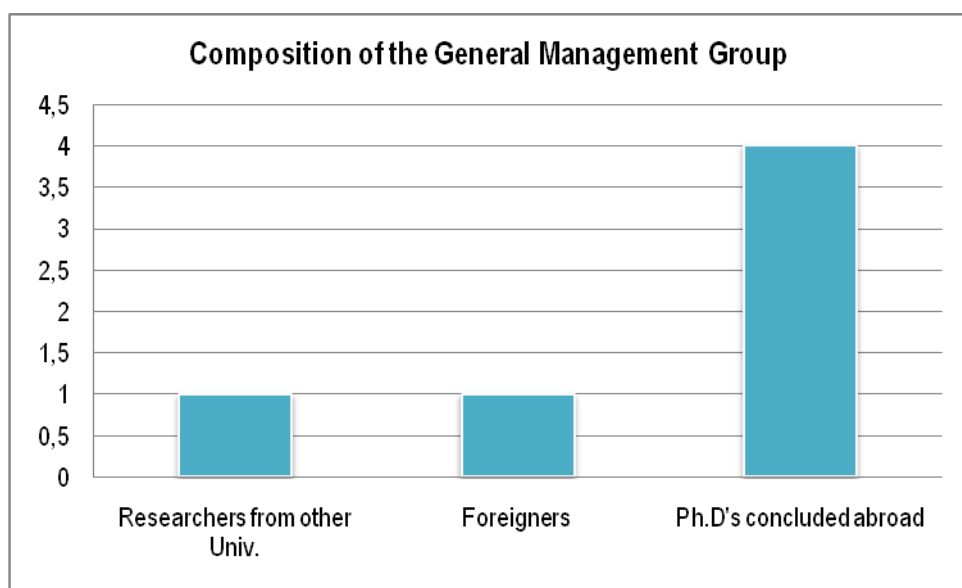


Figure 40 – Current distribution of the Group's researchers: foreigners, doctoral degrees abroad, and researchers from other Universities. NB decimals in graph

3. Funding sources; Dates

Research projects carried out during the four-year period under analysis were mainly funded by the F.C.T., other institutions, and the Management Department budget allocated to the Group. However, before 2010 this allocation was made through the Management Research Center, a broader Department which, following the recommendation of the Evaluation Panel (2003-6), was sub-divided into three different Groups with narrower and more specific fields of research: the General Management Group; the Organizational Behavior and Human Resources Group; and the Marketing Group.

Projects completed in 2009

- “Rail Openshop”. Project nr. PDCT/TRA/58720/2004, coordinated by João Menezes, with total budget of 99,792.00€.

Projects completed in 2010

- “Entrepreneurial configurations in Africa and China: a study in four countries”. Project nr. PTDDCA/AFR/72258/2008, coordinated by Nelson Santos António.

Participation of Group members in the following multi-integrative F.C.T. funded projects

- “The auction market of ancient and contemporary art in Lisbon and Oporto (2005-2011)”. Project nr. PTDC/EAT-HAT/103690/2008, coordinated by Luís Urbano Oliveira Afonso (FLUL), with total budget of 22,154.00€;
- “Corporate governance in medium income countries: the case of Portugal”. Project nr. PTDC/GES/72859/2006, coordinated by José Paulo Esperança (from the Finance Group), with total budget of 163,033.00€;
- “Investigating consumer purchases of related technology products across countries in the EU region”. Project nr. PTDC/EGE/GES/108997/2008, coordinated by Ralitza Nikolaeva (from the Marketing Group), with total budget of 64,420.00€;
- “Linking business-to-business relationship management inputs with financial and objective outcomes”. Project nr. PTDC/GES/70167/2006, coordinated by Luís Filipe Costa Lages (UNL), with total budget of 73,408.00€.

Additionally, the Group was awarded an important grant under the European Union 7th Framework

- “Quality and safety in European hospitals (QUASER): a research-based guide for implementing best practice and a framework for assessing performance”. Project Nr. 241724, centrally coordinated by

Paul Lavvett (King's College London) and locally coordinated by Alexandra Fernandes, Francisco Nunes and Luís Martins, with total budget of 2,999,842.00€ of which 400,000.00€ come from UNIDE.

4. Objectives

The Group was formed very recently in 2010 and gathers researchers whose interest is focussed on management and strategy matters. To enhance research within this new framework, the Group's objectives for 2010 were to:

- Foster research excellence across key areas of the broad field of Management and develop links with other departments within ISCTE-IUL, as well as nationwide and internationally;
- Attain international recognition as an excellent group producing research publishable in top international journals;
- Absorb new sources of funding in order to accelerate the implementation of the research agenda and the integration of its researchers in scientific international networks;
- Attract established researchers to work with members of the research Group;
- Increase the diffusion of scientific knowledge by presenting research at the prestigious seminars and conferences;
- Consolidate the Ph.D. Program on General Management, Strategy and Entrepreneurship;
- Enhance contact with enterprises and the industry.

5. Main Achievements

The Group's greatest achievement has been the continuing development of the research capabilities of its faculty members. Despite a slight deviation in 2010, the overall numbers of articles published in international peer reviewed journals has remained consistent.

- From 2007 to 2010 researchers from this Group published 19 articles in ISI indexed journals and 29 articles in other international peer reviewed journals, of which 12 and 9 respectively were published in 2010. The Group has published 16 articles in national peer reviewed journals. The distribution and evolution of these publications over the years are presented below:

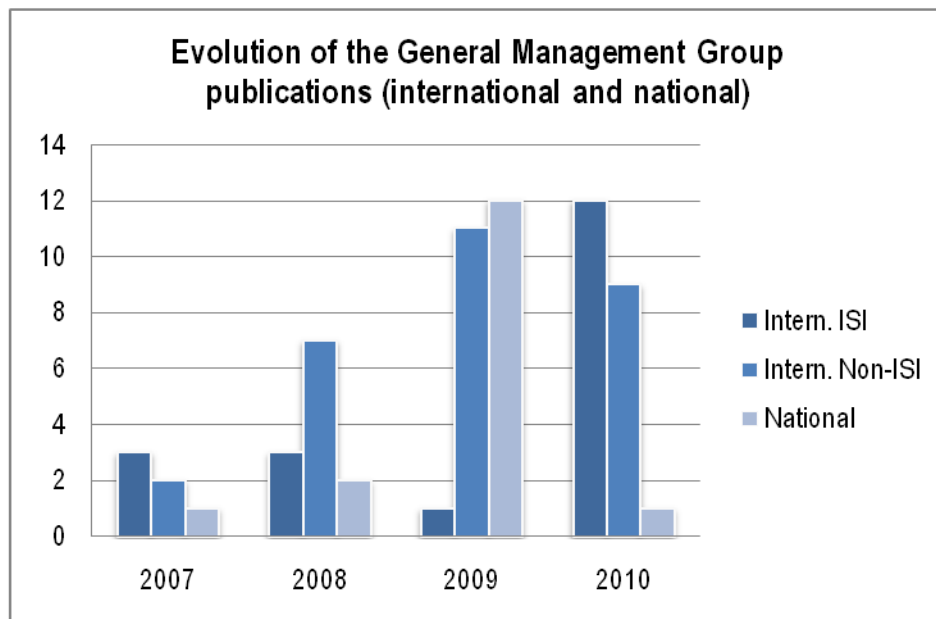


Figure 41 – Evolution of international and national publications from 2007 to 2010.

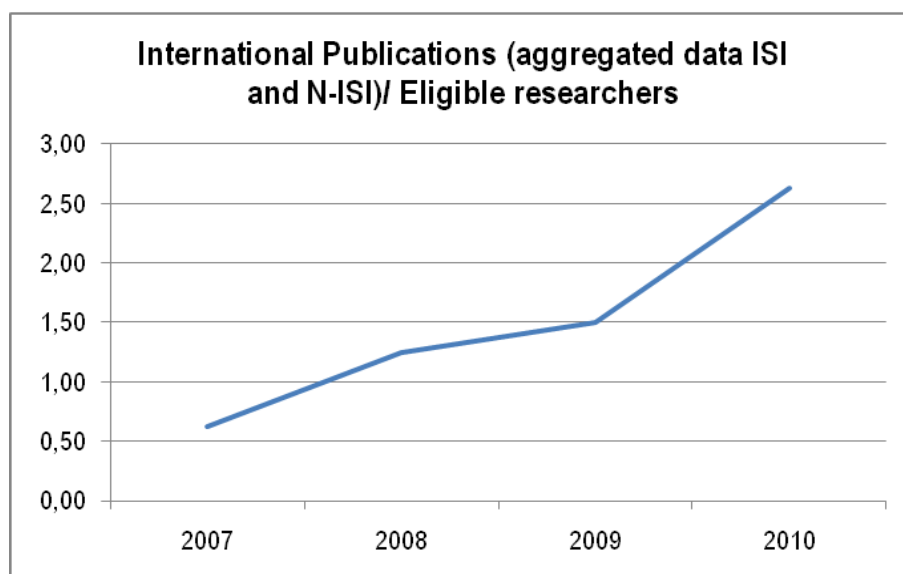


Figure 42 – Publications per eligible member from 2007 to 2010.

- Journals in which members of this Group have published include the “Journal of Business Ethics”, the “Industrial Management and Data Systems”, the “European Management Journal”, the “Journal of Functional Analysis”, amongst others;
- More importantly, the Group was awarded a grant of €400,000.00 (QUASER PROJECT) by the European Union 7th Framework with highly reputed institutions. Additionally, during the period under

analysis, two funded projects were concluded – (i) “Rail Openshop” ([PDCT/TRA/58720/2004](#)); (ii) “Entrepreneurial configurations in Africa and China: a study in four countries” ([PTDDCA/AFR/72258/2008](#)) – and many are still active, as several Group members continue participating in multi-integrative projects coordinated by members of other research Groups;

- In 2009 the Management Group confirmed its commitment to participate in the FP7 research Program "CLUSTERS: Impacts of corporate social responsibility in industrial clusters on innovation, competitiveness, sustainability and social well-being", coordinated by Copenhagen Business School (CBS) and managed by the European Academy of Business in Society (EABIS), in association with consortium partners from ten European countries in response to the Cooperation Work Program 2009 call: "SSH-2009 - 2.1.3. Impacts of corporate social responsibility" from the European Commission;
- Group members have continuously and consistently presented papers in conference proceedings (for instance, the “Australian and New Zealand Academy of Management”, the “International Conference on Advances in Management”, the “International Conference on Business and Information”, the “2010 Production and Operations Management Society”, or the “2010 EMAC”) and have diligently organized and co-organized several seminar series and conferences;
- Members of this Group concluded the supervision of 26 Ph.D. students;
- During 2010, a group of very well-published researchers in Human Resources was attracted to this Group bringing in fresh expertise and publications, although – and as mentioned above – requiring a spin off into an autonomous research Group within the unit as a whole.

6. Publication in Peer Reviewed Journals

ISI Publications

1. Cunha, M. P. & Cunha, R. C. & Rego, A. 2007. Toward a cross-cultural theory of “exemplary organizations”: evidence from Cuba. *Thunderbird International Business Review*, 49(5): 545-565.
2. Hines, P. & Martins, A. L. & Beale, J. 2007. Testing the boundaries of lean thinking: observations from the legal public sector. *Public Money and Management*, 28(1): 35-40.
3. Moreira, P. 2007. Characterising human resources management practices in Portugal: an empirical analysis. *International Journal of Human Resource Management*, 19(10): 1864-1880.

4. Rego, A. & Cunha, M. P. & Oliveira, M. 2008. Eupsychia revisited: the role of spiritual leaders. ***Journal of Humanistic Psychology***, 48(2): 165-195.
5. Rego, A. & Cunha, M. P. 2008. Organisational citizenship behaviors and effectiveness: an empirical study in two small insurance companies. ***Service Industries Journal***, 28(4): 541-554.
6. Rego, A. & Cunha, M. P. 2008. Perceptions of authentic climates and employee happiness: pathways to individual performance?. ***Journal of Business Research***, 61(7): 739-752.
7. Filipe, J. A. 2009. A note on the drama of the commons. How to deal with an old problem in natural resources: the resources overexploitation. ***International Journal of Academic Research***, 1(2):162-164.
8. António, N. & Martins, J. 2010. Knowledge transfer to the subsidiaries operating overseas. ***Industrial Management & Data Systems***, 110(4): 516-531.
9. Câmara, M. & Diogo, C. & Rodman, L. 2010. Fredholmness of Toeplitz operators and corona problems. ***Journal of Functional Analysis***, 259(): 1273 – 1299.
10. Cunha, M. P. & Guimarães-Costa, N. & Rego, A. & Clegg, S. 2010. Leading and following (un)ethically in 'limen'. ***Journal of Business Ethics***, 97(2): 189-206.
11. Cunha, M. P. & Rego, A. & Clegg, S. 2010. Obedience and evil: from Milgram and Kampuchea to normal organizations. ***Journal of Business Ethics***, 97(2): 291-309.
12. Cunha, M. P. & Rego, A. 2010. Complexity, simplicity, simplicity. ***European Management Journal***, 28(2): 85-94.
13. Martins, J. M. & Antonio, N. 2010. The transfer of knowledge from the MNEs to their Mozambican subsidiaries: a process based on the relationship between source and recipient. ***African Journal of Business Management***, 4(13): 2615-2624.
14. Rego, A., & Cunha, M. P. 2010. Organizational justice and citizenship behaviors: A study in the Portuguese cultural context. ***Applied Psychology: An International Review***, 59(3): 404-430.
15. Rego, A., Godinho, L., McQueen, A., & Cunha, M. P. 2010. Emotional intelligence and caring behavior in nursing. ***Service Industries Journal***, 30(9): 1419-1437.
16. Rego, A., Leal, S., Cunha, M. P., Faria, J. & Pinho, C. 2010. How the perceptions of five dimensions of corporate citizenship and their inter-inconsistencies predict affective commitment. ***Journal of Business Ethics***, 94: 107-127.
17. Rego, A., Marques, C., Leal, S., Sousa, F., & Cunha, M. P. 2010. Psychological capital and performance of civil servants: exploring neutralizers in the context of an appraisal system. ***International Journal of Human Resources Management***, 21(9): 1531-1552.

18. Rego, A., Ribeiro, N., & Cunha, M. P. 2010. Perceptions of organizational virtuousness and happiness as predictors of organizational citizenship behaviors. **Journal of Business Ethics**, 93: 215-225.
19. Selvarasu, A. & Agarwal, A. & Filipe, J. A. & Jha, R. & Ferreira, M. A. M. 2010. Model predicting profit and turnover path of apparel-retail Company. **Journal of Economics and Engineering**, 1(2): 4-13.

N-ISI Publications

1. Rego, A. & Cunha, M. P. & Souto, S. 2007. Workplace spirituality, commitment and performance: an empirical study. **Management Research**, 5(3) :165-185.
2. Rego, A. & Sousa, F. & Cunha, M. P. & Correia, A. & Saur, I. 2007. Leader self-reported emotional intelligence and perceived employee creativity: an exploratory study. **Creativity and Innovation Management Journal**, 16(3): 250-264.
3. Cunha, M. P. & Rego, A. & Cunha, J. V. 2008. Ecocentric management: an update. **Corporate Social Responsibility and Environmental Management**, 15(6): 311-321.
4. Filipe, J. A. & Ferreira, M. A. M. & Coelho, M. 2008. The drama of the commons. An application of Faisca, L. & Jesuino, J. C. 2008. L'Image des Gitans au Portugal. **Psihologia Sociala**, : 22-38.
5. Filipe, J. A. & Ferreira, M. A. M. & Coelho, M. & Pedro, M. I. C. 2008. Cournot- Nash model to the sardine in Portuguese waters. The effects of collusion. **Journal of Agricultural, Food and Environmental Sciences**, 2(1): 1-7.
6. Filipe, J. A. & Ferreira, M. A. M. & Coelho, M. & Pedro, M. I. C. 2008. Anti-commons: how tragedies happen. Some cases and the evidences on fisheries. **China - USA Business Review**, 7(11): 9-13.
7. Pinho, I. & Rego, A. & Kastenholz, E. 2008. Factores satisficientes e insatisficientes dos utilizadores de websites: um estudo de caso. **Tékhné**, VI(10): 51-72.
8. Rego, A. & Cunha, M. P. 2008. Workplace spirituality and organizational commitment: an empirical study. **Journal of Organizational Change Management**, 21(1): 53-75.
9. Selvarasu, A. & Pujar, S. R. & Filipe, J. A. & Kathiravan, C. 2008. A sustainable competitive positional advantage of English dailies - a research proposal. **Innovative Marketing Journal**, 4(4): 36-43.
10. Cunha, M. P. & Cunha, R. C. & Rego, A. 2009. Exploring the role of leader—subordinate interactions in the construction of organizational positivity. **Leadership Journal**, 5(1): 81-101.
11. Cunha, M. P. & Rego, A. & Clegg, S. 2009. An essay on archaic post-modernity: the case of Portugal. **Management Research**, 7(3): 193-204.

12. Cunha, M. P. & Rego, A. & Kamoche, K. 2009. Improvisation in service recovery. ***Managing Service Quality***, 19(6): 657-669.
13. Rego, A. & Cunha, M. P. & Pinho, C. 2009. Exploring a five-factor model of organizational justice. ***Management Research***, 7(2): 103-125.
14. Rego, A. & Cunha, M. P. 2009. Do the opportunities for learning and personal development lead to happiness? It depends on work-family conciliation. ***Journal of Occupational Health Psychology***, 14(3): 334-348.
15. Rego, A. & Cunha, M. P. 2009. How individualism-collectivism orientations predict happiness in a collectivistic context. ***Journal of Happiness Studies***, 10(1): 19-35.
16. Rego, A. & Machado, F. & Leal, S. & Cunha, M. P. 2009. Are hopeful employees more creative? An empirical study. ***Creativity Research Journal***, 21(2-3): 223-231.
17. Rego, A. & Souto, S. & Cunha, M. P. 2009. Does the need to belong moderate the relationship between perceptions of spirit of camaraderie and employees' happiness?. ***Journal of Occupational Health Psychology***, 14(2): 148-164.
18. Rego, A. & Pinho, I. & Pedrosa, J. & Cunha, M. P. 2009. Barriers and facilitators to knowledge management in Portuguese research centers: an exploratory study. ***Management Research***, 7(1): 33-47.
19. Sousa, C. M. P. & Lengler, J. F. B. 2009. Psychic distance, international marketing strategy and export performance: establishing an empirical link. ***Journal of Marketing Management***, 25(5-6): 591-610.
20. Valle, P. & Menezes, J. & Reis, E. & Rebelo, E. 2009. Reverse logistics for recycling: the customer service determinants. ***International Journal of Business Science and Applied Management***, 4(1): 1-17.
21. Coelho, M. P. & Filipe, J. A. & Ferreira, M. A. M. 2010. Between market and law: common fisheries policy. *Annals of Marine Sociology*, XIX(): 33-46.
22. Filipe, J. A., Ferreira, M. A. M., Coelho, M., Pedro, M. I., & Andrade, M. 2010. Analysing fisheries management through complexity and chaos theories framework. ***Journal of Mathematics and Technology***, 1(2): 5-12.
23. Filipe, J. A., Ferreira, M. A. M., Coelho, M., & Pedro, M. I. 2010. Managing complexity: a problem of chaos in fisheries. ***China-USA Business Review***, 9(3): 15-23.
24. Filipe, J. A. 2010. A note on Cournot-Nash model and the fisheries. ***Journal of Economics and Engineering***, : 34-36.

25. Filipe, J. A., Ferreira, M. A. M., Coelho, M., & Pedro, M. I. 2010. Chaos, anti-chaos and resources: dealing with complexity. ***Aplimat- Journal of Applied Mathematics***, 3(2): 83-90.
26. Martins, J. & António, N. 2010. The transfer of knowledge from the headquarters to the subsidiaries: a case study of MNEs operating in overseas. ***Euro-Asia Journal of Management***, 20(38): 3-30.
27. Pedro, M. I. C. & Filipe, J. A. & Ferreira, M. A. M. & Selvarasu, A. 2010. Franchising networks internationalization: a model conception. ***The IASMS Journal of Business Spectrum***, III(1): 14-29.
28. Saur-Amaral, I. & Rego, A. 2010. Innovation intelligence: crowdsourcing in a social network. ***International Journal of Technology Intelligence and Planning***, 6(3): 288-299.
29. Zhao, D., António, N., & Trigo, V. 2010. Frozen river model and comparison on governance of healthcare market in China and United States. ***Chinese Hospitals*** , 14 (6), pp.22- 24

20. Impact of Scientific Production

The “SJR – cites per doc (2 years)” is computed using the average number of citations to articles published in science and social science journals. The table below presents aggregated statistical information on the General Management Group’s articles with available “SJR”, and the following graph shows the average and total number of articles with available “SJR” *per* year:

GENERAL MANAGEMENT	
“SJR - Cites per Doc. (2y)” computes the average number of citations to articles published in science and social science journals and used as a proxy for the relative importance of a certain journal. Additionally, the indicator is not available to all Journals.	
Average of Published Articles' SJR	1.209
Standard Deviation of Published Articles' SJR	0.750
Total of Published Articles' SJR	32.639
Highest SJR	3.158
Lowest SJR	0.289

Figure 43 – Aggregated statistical information on the Group’s SJR.

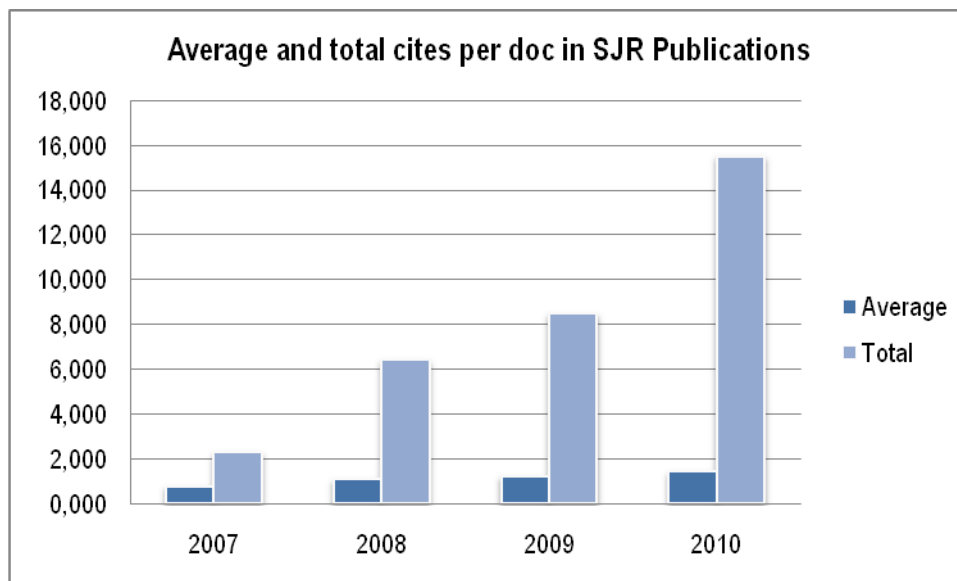


Figure 44 – Average and total number of publications per year with “SJR – cites per doc”.

Other National Publications

1. Aguzzoli, R. L. & Lengler, J. F. B. & Antunes, E. D., & Ribeiro, V. B. 2007. Capacitação em multinacionais brasileiras: o investimento nas filiais estrangeiras reproduz o da matriz?. **Revista Eletrônica de Administração**, 13(4).
2. Rego, A. 2008. Maldito emprego, grande carreira, ditosa vocação. **Recursos Humanos Magazine**, (Nov.-Dez.), :16-20.
3. Rego, A., & Cunha, M. P. 2009. Dez bússolas de apoio à liderança ética. **Dirigir**, 106 :32-37.
4. Rego, A., & Cunha, M. P. 2009. Espelhos de liderança positiva. **Recursos Humanos Magazine**, (Maio-Junho) :18-21.
5. Rego, A. 2009. Liderança com norte. **Pessoal**, (Dez.).
6. Rego, A., & Cunha, M. P. 2009. Sete notas sobre liderança virtuosa e eficaz. **Recursos Humanos Magazine**, 64 :22-25.
7. Rego, A., & Cunha, M. P. 2009. Gestão em Portugal: das fraquezas às forças. **Dirigir**, 106 :32-37.
8. Rego, A., & Cunha, M. P. 2009. Má liderança. **Pessoal**, (Fev.) :52-54.
9. Rego, A., & Cunha, M. P. 2009. O perdão como força de liderança. **Pessoal**, (Jan.) :56-57.

10. Rosa, A., Teixeira, A., & António, N. 2009. Porque foi o Japão pioneiro da adopção da gestão da qualidade?. **TMQ – Qualidade**, :34-44.
11. Teixeira, A., & António, N. 2009. QualStrategy: cuidar do presente e preparar o futuro. **TMQ – Qualidade**, :70-77.
12. Teixeira, A., & António, N. 2009. Qualidade e estratégia. **TMQ – Qualidade**, :48-64.
13. Monteiro, J. C. & Filipe, J. A. 2010. A framework for the analysis of the impact of competition on investment decisions in the presence of managerial and financial flexibility. **Portuguese Journal of Quantitative Methods**, 1(2): 75-83.

7. Papers presented at international and national conferences (Examples)

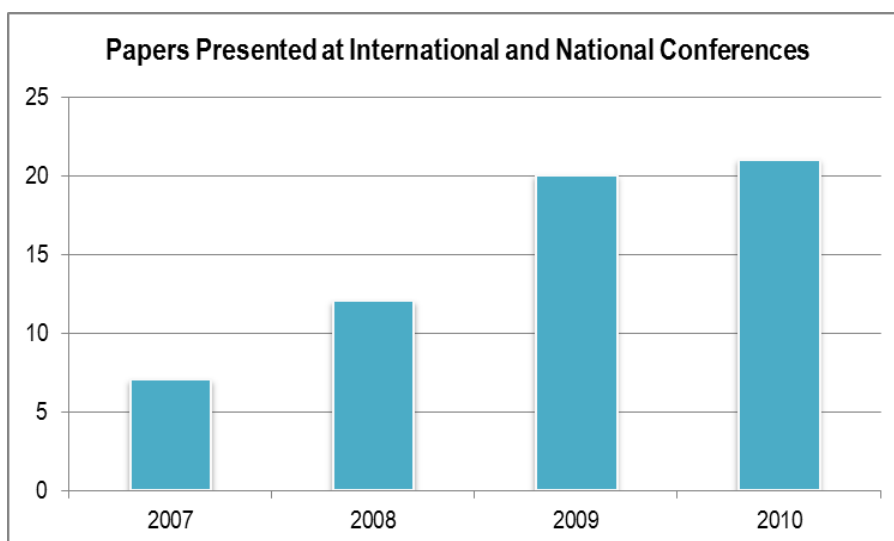


Figure 45 – Papers presented at international and national conferences (2007-2010).

- Filipe, J. A., Ferreira, M. A. M., Matos, M. C., & Coelho, M. 2007. How to choose shio owners to exercise fishing activity?. Communication presented at the **5th African Institute for Mathematical Sciences International Conference on Management**. Hyderabad, India.
- Rosa, A., & Teixeira, A. 2007. Intervalos de confiança para a distribuição t não-central: um algoritmo para folhas de cálculo electrónicas. Communication presented at the **XV Congresso Anual de SPE**. Lisbon, Portugal.

- Fernandes, A. 2008. A gestão estratégica de recursos humanos. Communication presented at the **8^a Congress of Human Resources 2008**. Lisbon, Portugal.
- Fernandes, A. 2008. O novo SIADAP: Teoria e prática. Communication presented at the **Quidgest Conference**. Lisbon, Portugal.
- Pedro, M. I. C., Filipe, J. A., & Coelho, M. 2008. Franchising – a study about the Intention of the Iberian Companies to Internationalize. Communication presented at the **4th IEEE International Conference on Management of Innovation and Technology**. Bangkok, Thailand.
- Moura, D. F., & Filipe, J. A. 2009. Companies and political risks: Latin America case. Communication presented at the Joint Conference of **16th Annual International Conference on Advances in Management** (ICAM 2009) and the **2nd Annual International Conference on Social Intelligence**. Colorado Springs. Colorado, U.S.A.
- Lucas, S., & Fernandes, A. 2009. O alcoolismo nas organizações: estudo do caso da TAP. Communication presented at the **Conferência de Investigação e Intervenção em Recursos Humanos**. Vila da Conde, Portugal.
- Vilas-Boas da Silva, J. M. 2009. Empirical test of a conceptual model to find relevant PPC procedures to strategic entrepreneurship. Communication presented at the **RENT XXIII – Research in Entrepreneurship and Small Business**. Corvinus University, Budapest, Hungary.
- Afonso, L., Fernandes, A., & Martins, L. 2010. The impact of international crisis in the Portuguese Auction Market. Communication presented at the **16th International Conference on Cultural Economics**. Copenhagen, Denmark.
- Fernandes, A. 2010. Novos desafios para a gestão das organizações. Communication presented at the **XX Jornadas Lusa-Espanholas de Gestão Científica**. Setúbal, Portugal.
- Correia, A., Rego, A., & Cunha, M. P. 2010. Contribuição para a compreensão dos modelos agente-sistema e dois factores interaccionais na justiça organizacional. Communication presented at the **Conferência IIRH10, Investigação e Intervenção em Recursos Humanos**. ESCE, Instituto Politécnico de Setúbal. Portugal.
- Leal, S., & Rego, A. 2010. Reformulando a dimensionalidade do constructo de responsabilidade social das empresas. Communication presented at the **XXXIV Encontro da ANPAD (Associação Nacional dos Programas de Pós-Graduação em Administração)**. Rio de Janeiro, Brazil.

- Rego, A., Sousa, F., Marques, S. & Cunha, M. P. 2010. All that is negative is not bad: a curvilinear relationship between the positivity ratio and employees' creativity. Communication presented at the **4th Asian Congress of Health Psychology**. Taipei, Taiwan.
- Rego, A., Sousa, F., Marques, S., & Cunha, M. P. 2010. How affective well-being mediates the relationship between authentic leadership and employees' creativity. Communication presented at the **5th European Conference on Positive Psychology**. Copenhagen, Denmark.
- Cunha, M. P., Rego, A. & Clegg, S. 2010. Kafka, paranoia and utopia: the case of the S-21 extermination camp Phnom Penh. Communication presented at the **26th EGOS Colloquium**. Lisbon, Portugal.

8. Publications in Conference Proceedings (Examples)

- Filipe, J. A., Ferreira, M. A. M., & Coelho, M.. 2007. Using Cournot-Nash model to study the contributions of cooperation for fishing stocks recover and for fisher's rents. **APLIMAT 2007**. Bratislava, Slovakia.
- Coelho, M., Filipe, J. A., Ferreira, M. A. M., & Pedro, M. I. C. 2008. Illegal fishing: an economic analysis. **APLIMAT 2008**. Bratislava, Slovakia.
- Pedro, M. I. C., Filipe, J. A., Ferreira, M. A. M. e Coelho, M. 2008. Franchising-Iberian Companies internationalization. **APLIMAT 2008**. Bratislava, Slovakia.
- Filipe, J. A., Ferreira, M. A. M., Coelho, M., & Andrade, M. 2008. Destroy value. Portugal's aquaculture case. **APLIMAT 2008**. Bratislava, Slovakia.
- Leal, S., & Rego, A. 2010. Como as percepções de responsabilidade social das empresas explicam o desempenho individual através do papel mediador do empenhamento e do capital psicológico: um estudo conceptual. **The 1th Iberoamerican Conference on Social Responsibility**. C.E.S., Lisbon. (CD-Rom)
- Martins, D., Rego, A. & Proença, T. 2010. Determinants of turnover versus permanence of Portuguese repatriates: an exploratory study. **European Academy of Management Conference**. Rome, Italy. (<http://www.euram2010.org/r/default.asp?id=EGGMKK>).

9. Organization and Co-Organization of Conferences:

- “Gestão do Capital Intelectual – a nova vantagem competitiva das organizações”, published in “ELBE 2008 – II Encontro Luso-Brasileiro de Estratégia. ISCTE-IUL;
- “O novo SIADAP: teoria e prática”. 2008. ISCTE-IUL;
- “2010 Gira Conference”. 2010. Active participation of several Group members in the organization of this Conference coordinated by a member of the Finance Group (José Paulo Esperança). ISCTE-IUL;
- “2010 Entrepreneurship Conference”. 2010. Participation of Group members in the organization of this conference promoted by AUDAX, with both national and international participants. ISCTE-IUL;
- “2010 COHITEC Conference”. 2010. Members of this Group also participated in the organization of this conference promoted by AUDAX, with both national and international participants. ISCTE-IUL.

10. Doctoral Program

- There are two different Doctoral Programs whose study plans come within the research scope of General Management Group, and therefore coordinated by two Group researchers: Global Management, Strategy and Entrepreneurship, coordinated by Nelson António and the Ph.D. in Operations and Technologies Management, coordinated by João Vilas-Boas.
- Both are developed around three main objectives: to enable students to develop autonomous and innovative research skills; to encourage students to publicize their findings through the presentation of papers and the publishing of articles; to give students the knowledge and skills necessary to boost their academic and professional careers.

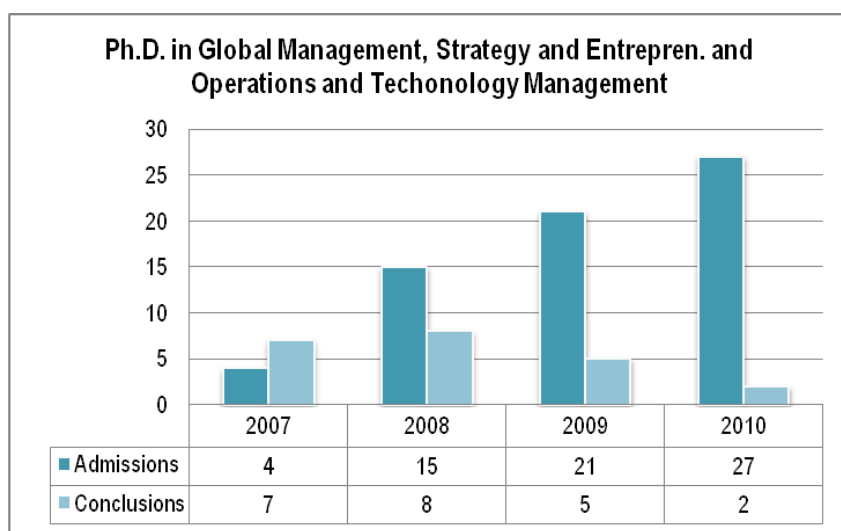


Figure 46 – Ph.D. in Global Management and Operations and Tech. Management.

Ph.D. Theses Completed

Ph.D theses supervised in 2007

- Susana Maria dos Santos Henriques Marques da Cunha – "A influência da promoção de vendas como critério de escolha de um ponto de venda";
- Jorge José Martins Rodrigues – "Estrutura de propriedade, estrutura de capital e criação de valor: uma abordagem ao sector da Construção Civil e Obras Públicas, no período de 1986-2000 em Portugal";
- Henrique Duarte – "Os efeitos da confiança e da distância ao poder na cooperação e oportunismo: modelo dos antecedentes normativos na cooperação";
- Shaozhuang Ma – "How to retain young chinese managers? A study on job satisfaction and retention strategies across different company ownerships in China";
- Ana Cristina Fernandes – "The Bid – ask spread components: an empirical application to the London Stock Exchange";
- Rui Alpalhão - "O toque da mão invisível – nacionalizações, indemnizações e privatizações em Portugal, 1975 - 2003";
- Antonio Freitas Miguel – "Essays in International Investments";
- João Fernandes – "Corporate credit risk modeling".

Ph.D theses supervised in 2008

- Damasceno Dias – "Análise de um processo de fusão de duas instituições da Administração Central";
- Fausto Simões – "Factores de desempenho empresarial no contexto da reorganização económica de Angola";
- Joaquim António Janela Pereira – "A gestão estratégica de Recursos Humanos no contexto da transformação do sector bancário: o caso específico da banca cooperativa e mutualista em Portugal";
- José Adelino Afonso – "O capital humano, a empregabilidade e a participação dos empregados na riqueza criada pela empresa";

- Nuno João Farinha – “Gestão estratégica em contexto hospitalar: dinâmicas de estruturação do conhecimento especializado em dois hospitais públicos”;
- Paula Carvalho Matos – “Modelação do processo de decisão de compra de bens alimentares”.

Ph.D theses supervised in 2009

- Annibal P.S. Junior – “Inteligência competitiva na prática: implementação do núcleo de inteligência competitiva em câmaras de comércio e indústria luso-brasileiras”;
- Dana T. Redford – “The state of entrepreneurship education in Portugal – an empirical study on a nascent system in the European Union policy framework”;
- Gu Li Hong – “Stakeholders’ theory and corporate social responsibility (CSR) - an empirical study on public-private partnership (PPP) for healthcare in China”;
- Hélia Pereira – “A influência dos determinantes do Marketing Relacional e de outros factores motivacionais na satisfação e fidelização de clientes – o caso da compra de produtos turísticos na internet”;
- Joana Ortigão – “A identidade corporativa – a gestão do processo de mudança de marca”;
- João M. Xavier Rita – “Introdução de ferramentas de *e-procurement* na Galp Energia”;
- João Paulo Baía – “A influência do adolescente na decisão de compra em famílias monoparentais”;
- Miguel N. Baptista Sanganha – “As fronteiras do outsourcing numa 4PL”.

Ph.D theses supervised in 2010

- Carlos Manuel da Silva Rodrigues – “Evolução da governação das organizações públicas em Portugal: a emergência de modelos diferenciados”;
- Fernando Eugénio Acabado Romana – “Impacto da globalização nas práticas de gestão em diferentes ambientes culturais”;
- Filomena Maria Nogueira da Silva de Almeida – “A formação dos gestores e o mercado de trabalho das PME'S para jovens gestores”;
- Ana Lúcia Henriques Martins – “Uma abordagem logística aos tribunais de primeira instância”.

11. Internationalization

- The most significant internationalization event of the Group comprised the activities surrounding the “QUASER” project with several foreign partners;
- In 2008, Group member J. Lengler was invited to present two papers at a seminar series promoted by the University College Dublin: (i) “Market orientation and export performance of Brazilian SMEs”; (ii) “Creativity, market orientation and personal values in banking activities”;
- During that year, Group member A. Robalo lectured a Masters Program with ESCEM and ESC Clermont and Group researcher M. C. Santos participated at TREPAN Romanian Course in Venture Creation and Entrepreneurship at the Creovia University.
- Members of the Group participated actively in the international peer reviewed conference 2010 GIRA organized by a member of the Finance Group (José Paulo Esperança);
- Members of this Group also participated in the 2010 Entrepreneurship Conference organized by AUDAX, the ISCTE-IUL Center for Entrepreneurship with both national and international participants;
- Members of this Group also participated in the 2010 COHITEC Conference organized by AUDAX, the ISCTE-IUL Center for Entrepreneurship with both national and international participants.

12. Government/ Organization Contract Research

- “Quality and Safety in European Union Hospitals (QUASER): a research-based guide for implementing best practice and a framework for assessing performance”. Project nr. 241724.
- “The auction market of ancient and contemporary art in Lisbon and Oporto (2005-2011)”. Funded project nr. PTDC/EAT-HAT/103690/2008.

Organizational Behavior and Human Resources

Subject Area Group

Research Group Title: **Organizational Behavior and Human Resources**

Principal Investigator: António Caetano

Main Scientific Domain: Organizational Behavior and Human Resources

Home Institution: ISCTE-IUL Instituto Universitário de Lisboa

The Organizational Behavior and Human Resources Group resulted from the merger (in 2010) of researchers from the Management Research Center at BRu-Unide with researchers from the former Work and Organizational Psychology Group (NIPO/ WOP) from CIS – Centro de Investigação e Intervenção Social. This report therefore addresses the productivity of these researchers throughout the four years:

The Organizational Behavior and Human Resources Group conducts research projects on teamwork, health and wellbeing at work, leadership, creativity and innovation, social responsibility, human resources management, entrepreneurship, and organizational culture and change.

1. Group's Internal Organization

The Organizational Behavior and Human Resources Group currently has 19 researchers, 17 of whom are eligible for funding.

HUMAN RESOURCES and ORGANIZATIONAL BEHAVIOR Group			
Members:	Status:		
	Eligible	Associate	Assistant
Ana Margarida Soares Lopes Passos	E		
Aristides Isidoro Ferreira	E		

Filomena Almeida	E		
Francisco Guilherme Serranito Nunes	E		
Henrique Manuel Caetano Duarte	E		
Jorge Correia Jesuíno	E		
Luís Manuel Frutuoso Martinez	E		
Luís Martins	E		
Luís Reto		A	
Qin Zhou	E		
António Caetano	E		
Eduardo Simões		A	
José Neves	E		
Nelson Ramalho	E		
Pedro Miguel Moreira	E		
Sara Ramos	E		
Sílvia Silva	E		
Susana M. Tavares	E		
Virgínia Maria Trigo	E		
Grant students doing research within the Group			
Silvia Margarida Costa			AI
Ana Margarida Carvalho Graça			AI
Maria Rita Costa e Silva			AI
Maria Rita Rueff Lopes			AI
Pedro Quinteiro da Silva			AI
Susana Correia Santos			AI

Figure 47 – Group's internal organization

2. Researchers

Three group researchers have completed their Doctoral studies abroad: Tilburg University., Louvain La Neuve; Aston University Regarding, foreign members, the Group has successfully attracted one researcher from China.

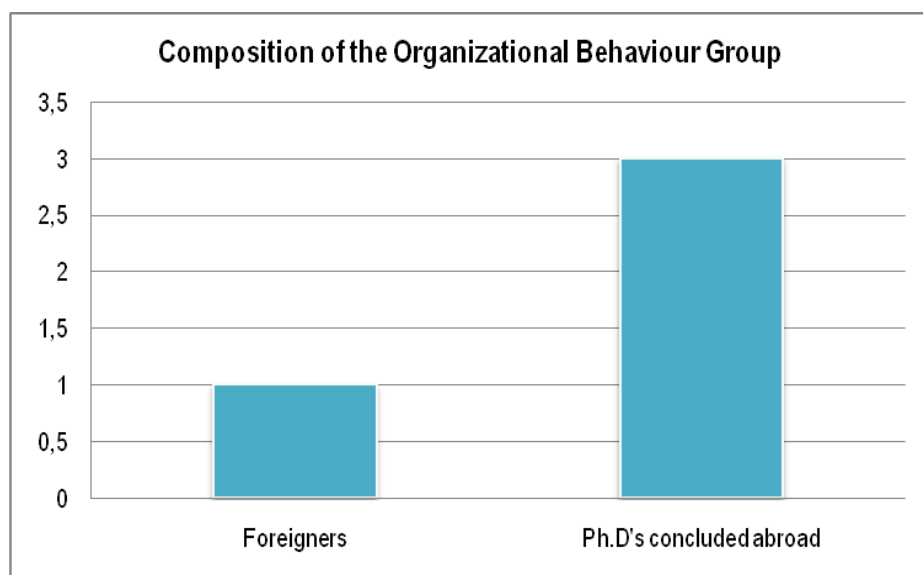


Figure 48 – Current distribution of the Group's researchers: foreigners, doctoral degrees abroad, and researchers from other Universities. NB decimals in graph

3. Funding sources; Dates

Research projects developed by Group members and carried out during the four-year period under analysis were funded by the F.C.T., European institutions and other private entities. The projects initiated before and during the reported period are described below.

Project concluded in 2007

- “Avaliação da Cultura de Segurança na NAV”. Project nr: 2006/12/SERV/DSEGOP, coordinated by Sílvia Silva;

- “Impactos dos acidentes de trabalho: suas valências ao nível social, organizacional e individual”
Project nr. PIQS/PSI/50070/2003, coordinated by Sílvia Silva and Luísa Lima with a total budget of 74,450.00€;
- “Rumo à Qualidade”. Project nr. EQUAL 2004/EQUAL/A2/EE/085, coordinated by José Neves, with total budget of 17,802.28€;

Projects concluded in 2010

- “Análise longitudinal e multi-nível de aspectos micro e macro do comportamento organizacional: bem-estar subjectivo, satisfação no trabalho e no desempenho”. Project nr. PTDC/PSI/73347/2006, coordinated by António Caetano, with total budget of 120,000.00€;
- “Codificação Análise e prevenção de Acidentes de Trabalho”. Project nr. PTDC/SDE/71193/2006, coordinated by Sílvia Silva, with total budget of 100,476.00€;
- “Factores de Sucesso e Abandono Escolar no Ensino Superior em Portugal: Uma Análise Comparativa. Project nr. POCI/C/04.01.02/0284/0002/2006, coordinated by António Caetano, with partial budget allocated to the research group of 6,000€;

Projects in progress

- “Quality and safety in European hospitals (QUASER): a research-based guide for implementing best practice and a framework for assessing performance”. Project Nr. 241724, centrally coordinated by Paul Lavvett (King’s College London) and locally coordinated by Alexandra Fernandes, Francisco Nunes and Luís Martins, with total budget of 2,999,842.00€, of which 400,000.00€ come from UNIDE;
- “A dimensão temporal da justiça organizacional: os efeitos da perspectiva temporal sobre as percepções e a motivação laboral”. Project nr. PTDC/EGE-GES/098856/2008, developed within the framework of Unidade de Investigação em Ciências Económicas e Empresariais Universidade Católica Portuguesa and CIS ISCTE-IUL. The Project is coordinated by Irina Cojuharenco, and Ana Margarida Passos in member of the research team. The Project was initiated in 2009 and it is expected to terminate in 2012;
- “Team effectiveness over time and contexts TEOC”. Project nr. PTDC/PSI-PTO/102373/2008, coordinated by Ana Margarida Passos, with total budget of 68,206.00€ from the F.C.T.. Developed within the framework of CIS ISCTE-IUL, the project was initiated in March 2010 and it is expected to terminate in 2013;

- “Improving quality and safety in the hospital: the link between organizational culture, burnout, and quality of care”. Project nr. 242084 7th Framework Program Priority 7, with total budget of 143,360.00€. It is nationally coordinated by Ana Margarida Passos as National Coordinator and globally by Efharis Panagopoulou from ARISTOTELIO PANEPISTIMIO THESSALONIKIS. Its transnational partners are Greece, Bulgaria, Portugal, Macedonia, Turkey, Croatia, Romania, Ireland and UK. The project was initiated in 2009 and it is to run until 2014;
- “New European industrial relations: empowering European worker representatives to negotiate flexible, fair and innovative labor relations”. Project nr. VS/2010/0376, with a total budget of 5,160.00€. It is nationally coordinated by Ana Margarida Passos and globally by Lourdes Munduate from University of Seville. Its transnational partners are Spain, Germany, Belgium, Netherlands, Estonia, UK and Portugal. The project was initiated in December 2010 and is expected to terminate in December 2011.

4. Objectives

The Organizational Behavior and Human Resources Group embraces researchers who identify themselves with applied investigation in the area of organizational behavior and human resources and are interested in studying individual and team behavior in organizational environment.

The Group and its investigators continue to pursue the strategic objectives that have enlightened their research throughout the analyzed period.

- To develop theoretical knowledge by testing theories in organizational contexts as well as to address organizational problems through theory-driven applied research;
- To promote management practices based on research evidence;
- To collaborate with organizations by targeting existing or emerging problems, improving their structure and functioning by means of systematic and comprehensive organizational diagnosis and intervention;
- To optimize networks between scientific research and enterprises to facilitate the integration of its young researchers and postgraduate students in the job market;
- To consolidate national and international research networks and promote the mobility of young and senior researchers.

5. Main Achievements

The Group has proudly achieved many of its goals in terms of publications, projects and paper presentation. The following summarizes the Group's achievements from 2007 to 2010.

- Throughout the reported period, researchers from this Group published 13 articles in ISI indexed journals and 21 articles in other international peer reviewed journals, of which 4 and 7 respectively, were published in 2010, thus revealing an outstanding evolution over last year. The Group has published 8 articles in national peer reviewed journals. The distribution and evolution of publications over the years is presented below:

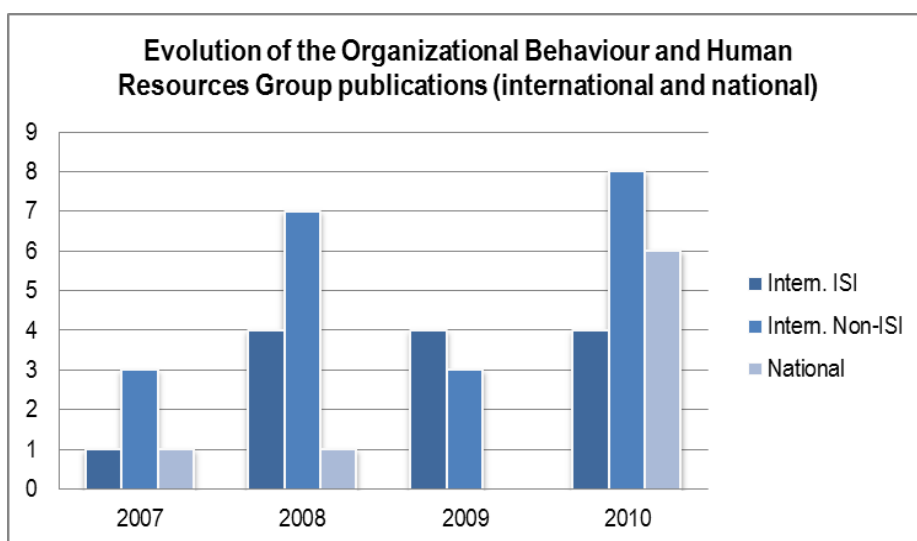


Figure 49 – Evolution of international and national publications from 2007 to 2010.

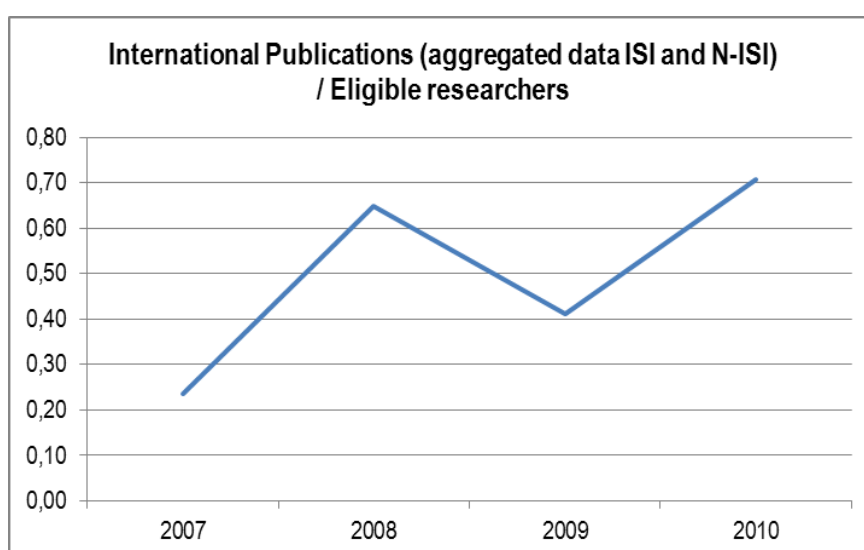


Figure 50 – Publications per eligible member from 2007 to 2010. NB decimals in graph

- Journals in which members of this Group have published include the “Group Organization Management”, “Journal of Applied Social Psychology”, “Journal of Personnel Psychology”, the “Journal of Business Ethics”, the “Personality and Individual Differences”, the “Applied Psychology: an International Review”, amongst others;
- More importantly, the Group is currently involved in two European Research Projects. One of these projects was awarded a grant of €143,360.00 “Improving quality and safety in the hospital: the link between organizational culture, burnout, and quality of care” by the European Union 7th Framework with highly reputed institutions ARISTOTELIO PANEPISTIMIO THESSALONIKIS and transnational partners Greece, Bulgaria, Portugal, Macedonia, Turkey, Croatia, Romania, Ireland and UK;
- The Group has published 52 books and book chapters, which reflects researchers’ commitment to the dissemination of knowledge within their scope of investigation;
- Group members have continuously and consistently presented papers in conference proceedings, e.g., in the “10th European Congress of Psychology”, the “International The 7th Global Conference on Business & Economics”, the “The 12th International Conference on Work Values and Behavior” and have diligently organized and co-organized several seminar series and conferences;
- Members of this Group concluded the supervision of 10 Ph.D. students;

6. Publication in Peer Reviewed Journals

ISI Publications

1. Van Knippenberg, D., Van Dick, R., & Tavares, S. 2007. Social identity and social exchange: identification, organizational and supervisor support, and withdrawal from the job. ***Journal of Applied Social Psychology***, 37(3) :457–477.
2. Ferreira, A.I., & Hill, M. M. 2008. Organizational cultures in public and private Portuguese Universities: a case study. ***Higher Education***, 55: 637-650.
3. Gonçalves, S. P. M., Silva, S. A., Lima, L. M., & Meliá, J. L. 2008. The impact of work accidents experience on causal attributions and worker behaviour. ***Safety Science***, 46 :992-1001.

4. Melià, J., Mearns, K., Silva, S. A., & Lima, M. L. 2008. Safety climate responses and the perceived risk of accidents in the construction industry. **Safety Science**, 46 :949-958.
5. Niza, C., Silva, S., & Lima, L. 2008. Occupational accident experience: association with workers' accident explanation and definition. **Safety Science**, 46 :959-971.
6. Gaspar, T., Ribeiro, J., Leal, I. Matos, M. G., & Ferreira, A. I. 2009. Psychometric properties of a brief version of the "Escala de Satisfação com o suporte social" for children and adolescents. **Spanish Journal of Psychology**, 12: 360-372.
7. Gaspar, T., Ribeiro, J., Leal, I., Matos, M.G., & Ferreira, A.I. 2009. Optimismo em crianças e adolescentes: adaptação do LOT-R. **Psicologia: Reflexão e Crítica**, 22: 317-324.
8. Neves, P., & Caetano, A. 2009. Commitment to change: contributions to trust in the supervisor and work outcomes. **Group Organization Management**, 34 :623-644.
9. Vitória, P. D. & Salgueiro, M. F. & Silva, S. A. & de Vries, H. 2009. The impact of social influence on adolescent intention to smoke: combining types and referents of influence. **British Journal of Health Psychology**, 14(4): 681-699.
10. Almeida, L.S., Prieto, M.D., Ferreira, A.I., Bermejo, M.R., Ferrando, M., & Ferrándiz, C. 2010. Intelligence assessment: Gardner multiple intelligence theory as an alternative. **Learning and Individual Differences**, 20: 225-230.
11. Martins, A., Ramalho, N., & Morin, E. 2010. A comprehensive meta-analysis of the relationship between Emotional Intelligence and health. **Personality and Individual Differences**, 49(6): 554- 564.
12. Spagnoli, P., Caetano, A., & Silva, A. J. 2010. Psychometric properties of a Portuguese version of the Subjective Happiness **Scale Social Indicators Research**. Published first online 5 December 2010.
13. Wegge, J., Jeppesen, H., Pearce, C., Weber, W., Silva, S., Pundt, A., Jonsson, T., Wolf, S., Wassenaar, C., Unterrainer, C., & Piecha, A. 2010. Promoting work motivation in organizations: should employee involvement in organizational leadership become a new tool in the organizational psychologists' armoury?. **Journal of Personnel Psychology**, 9(4): 154.

1. Redford, D., & Trigo, V. 2007. Entrepreneurship education in Portugal and the United States: a comparative study. ***The Silicon Valley Review of Global Entrepreneurship Research***, :19 – 37.
2. Velada, R., & Caetano, A. 2007. Training transfer: The mediating role of perception of learning. ***Journal of European Industrial Training***, 31(4): 283-296.
3. Velada, R., Caetano, A., Michel, J. W., Lyons, B. D., & Kavanagh, M. J. 2007. The effects of training design, individual, and work environment variables on transfer of training. ***International Journal of Training and Development***, 11: 282-294.
4. Jesuíno, J. C. 2008. Conceptualizing social psychology in Portugal. ***Rassegna di Psicologia***, : 41-49.
5. Jesuíno, J. C. 2008. Linking science to common sense. ***Journal for the Theory of Social Behavior***, 38(4): 393-409.
6. Ma, S., & Trigo, V. 2008. Winning the war for managerial talent in China: an empirical Study. ***Chinese Economy***, 41(3), :34-57. M.E.Sharpe, N.Y.
7. Matos, M. G., Tomé, G., Borges, A.I., Manso, D., Costa Ferreira, P., & Ferreira, A.I. 2008. Anxiety, depression, and coping strategies: Improving the evaluation and the understanding of these dimensions during pré-adolescence and adolescence. ***Journal of Cognitive and Behavioral Psychotherapies***, 8(2) :169-184.
8. Ramos, S., & Lacomblez, M. 2008. Soi-même comme un «vieux»: variations dans les regards sur les fins de vie au travail. ***Revue de l'Institut de Sociologie***, 1(4) :21-38.
9. Ramos, S., & Lacomblez, M. 2008. L'âge: évolutions des approches d'un marqueur dans l'étude des histoires de travail. ***Revue Les Politiques Sociales***, 3(4) :14-26.
10. Spagnoli, P., Tanucci, G., & Caetano, A. 2008. Fattori individuali e organizzativi nel processo di socializzazione organizzativa: uno studio longitudinale in ambito militare. ***Psicologia dell'Educazione e della Formazione***, 2: 63-90.
11. Vinagre, M. H., & Neves, J. G. 2008. The influence of service quality and patients' emotions on satisfaction. ***International Journal of Health Care Quality Assurance***, 21 (1): 87-103.
12. Ferreira, A. I., Martinez, L. F., & Guisande, M.A. 2009. Risky behavior, personality traits and road accidents among university students. ***European Journal of Education and Psychology***, 2(2): 79-98.

13. Trigo, V. & Calapez, T. & Santos, M. C. 2009. SMEEs and internationalization: an empirical study of SMEs in Portugal. ***Global Economics and Management Review***, 14(3): 9-24.
14. Velada, R., Caetano, A., Bates, R., & Holton, E. 2009. Learning transfer in the training context - validation of the learning transfer system inventory in Portugal. ***Journal of European Industrial Training***, 33(7) :635-656.
15. Duarte, A. P., Mouro, C., & Neves, J. 2010. Corporate social responsibility: mapping its social meaning. ***Management Research: The Journal of Iberoamerican Academy of Management***, 8(2): 101-122.
16. Ferreira, A. I. 2010. Construction and factorial validity of the intellectual capital scale. ***Hellenic Journal of Psychology***, 7(2): 124-140.
17. Gomes, D. R., & Neves, J. G. 2010. Do applicants' prior experiences influence organizational attractiveness prediction?. ***Management Research: The Journal of the Iberoamerican Academy of Management***, 8(3): 203 – 220.
18. Gomes, D. R., & Neves, J. G. 2010. Employer branding constrains applicants' job seeking behaviour?. ***Revista de Psicología del Trabajo y de las Organizaciones***, 26(3): 223 – 234.
19. Marçal, J., & Caetano, A. 2010. Corporate blended learning in Portugal: Current status and future directions. ***European Journal of Open, Distance and E-Learning***, 2010/II.
20. Santos, S. & Curral, L. & Caetano, A. 2010. Cognitive maps in early entrepreneurship stages: From motivation to implementation. ***The International Journal of Entrepreneurship and Innovation***, 11(1): 29–44.
21. Vinagre, M. H. & Neves, J. G. 2010. Emotional predictors of consumer's satisfaction with healthcare public services. ***International Journal of Health Care Quality Assurance***, 23(2): 209-227.

7. Impact of Scientific Production

The “SJR – cites per doc 2 years” is computed using the average number of citations to articles published in science and social science journals, and therefore used as a proxy for the relative importance of a certain journal within its field.

The table below presents aggregated statistical information on the Group’s articles with available “SJR”, and the following graph shows the average and total number of articles with available “SJR” per year:

ORGANIZATIONAL BEHAVIOUR AND HUMAN RESOURCES

“SJR - Cites per Doc. 2y” computes the average number of citations to articles published in science and social science journals and used as a proxy for the relative importance of a certain journal. Additionally, the indicator is not available to all Journals.

Average of Published Articles' SJR	1.013
Standard Deviation of Published Articles' SJR	0.479
Total of Published Articles' SJR	16.207
Highest SJR	1.934
Lowest SJR	0.149

Figure 51 – Aggregated statistical information on the Group’s SJR.

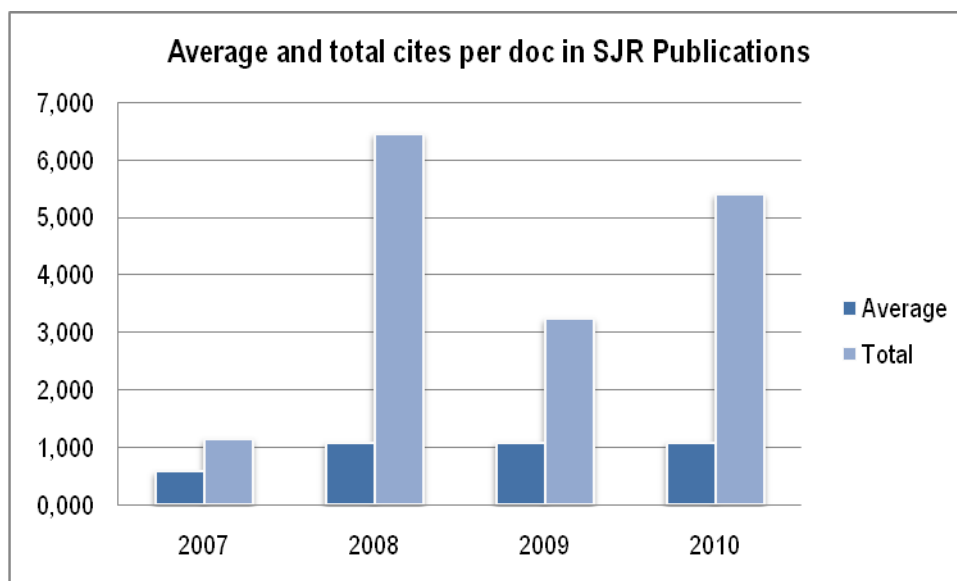


Figure 52 – Average and total number of publications per year with “SJR – cites per doc”.

8. National Publications

1. Tavares, S., Caetano, A., & Silva, S. 2007. Não há bela sem senão. A identificação organizacional, os comportamentos de dedicação ao trabalho e o conflito trabalho-família. **Revista Psicologia**, 21(1) :133-149. ISSN:0874-2049.
2. Santos, J. P., Caetano, A., & Jesuíno, J. C. 2008. As competências funcionais dos líderes e a eficácia das equipas. **Revista Portuguesa e Brasileira de Gestão**, 73 :22-33.
3. Ferreira, A. I. 2010. Clima organizacional e sua importância no diagnóstico das empresas. **Pessoas & Sintomas**, 11: 59-63.
4. Ferreira, A. I., Martinez, L. F., Sousa, L. M., & Cunha, J.V. 2010. Tradução e validação para a língua Portuguesa das escalas de presentismo WLQ-8 e SPS-6. **Avaliação Psicológica**, 9(2): 253-266.
5. Gonçalves, S. P., & Neves, J. 2010. Bem-estar subjectivo nos profissionais de polícia e militares. **Revista de Psicologia Militar**, 19:119-143.
6. Ramos, S. & Gonçalves, I. & Simões, H. & Rebelo, F. 2010. O contributo do design ergonómico na interacção com dispositivos de controlo: um caso de reconcepção de um posto de trabalho. **Laboreal**, 61: 17-28.
7. Santos, S., Alves da Costa, F., Passos, A., Ramalho, N., & Caetano, A. 2010. A importância das características gerais do trabalho na satisfação com as recompensas. **Sociologia, Problemas e Práticas**, 60.
8. Santos, S., Alves da Costa, F., Passos, A., Ramalho, N., & Caetano, A. 2010. A importância das características gerais do trabalho na satisfação com as recompensas. **Sociologia - Problemas e Práticas**, 61:85-99.

9. Books and Book Chapters

1. Caetano, A 2007. Introdução: A formação profissional e a sua avaliação. In A. Caetano (Coord.), ***Avaliação da formação profissional – Estudos em organizações Portuguesas***, :9 - 18. Lisboa: Livros Horizonte.
2. Caetano, A 2007a. Formação e mudança organizacional: mudanças alfa, beta e gama In A. Caetano (Coord.), ***Avaliação da formação profissional – Estudos em organizações Portuguesas***, :109 - 128. Lisboa: Livros Horizonte.
3. Caetano, A. 2007b. Formação e mudança organizacional: mudanças alfa, beta e gama. In A. Caetano (Coord.), ***Avaliação da formação profissional – Estudos em organizações Portuguesas***. Lisboa: Livros Horizonte.
4. Caetano, A. Coord.. 2007c. ***Avaliação da formação profissional – Estudos em organizações Portuguesas***. Lisboa: Livros Horizonte.
5. Caetano, A., & Velada, R. 2007. O problema da transferência na formação profissional. In A. Caetano (Coord.), ***Avaliação da formação profissional – Estudos em organizações Portuguesas***, :19 -37. Lisboa: Livros Horizonte.
6. Fonseca, M. J., & Caetano, A. 2007. Efeitos da formação na mudança de atitudes: o caso da formação em Crew Resource management. In A. Caetano (Coord.), ***Avaliação da formação profissional – Estudos em organizações Portuguesas***, :81 -107. Lisboa: Livros Horizonte.
7. Jamal, S., & Silva, S. 2007. O papel da formação no desenvolvimento de comportamentos de segurança em contexto militar. In C. G. Soares, A. P. Teixeira, & P. Antão (Eds.), ***Riscos Públicos e Industriais***, II. Lisboa: Edições Salamandra.
8. Miguel, C., & Caetano, A., R. 2007. Preditores da transferência da formação para o contexto de trabalho. In A. Caetano (Coord.), ***Avaliação da formação profissional – Estudos em organizações Portuguesas***, :39 - 60. Lisboa: Livros Horizonte.
9. Neves, J. G. 2007. ***Paradoxo e complexidade na cultura e liderança: padrões configuracionais. Lição de síntese***. Provas de Agregação. Lisboa: ISCTE.
10. Neves, J. G. 2007. Da formação qualificante à formação de competências: a influência das novas modalidades do trabalho. In UTL (Org.), ***Seminário Internacional***. Lisboa: Socius, ISEG. CD.
11. Ramalho, N., & Neves, J. G. 2007. Amplitude do constructo de eficácia organizacional: contributos da teoria da reprodução social de Bourdieu. In M. B. Monteiro, M. Calheiros, R Jerónimo, C. Mouro, & P.

- Duarte (Org.), **Percursos da Investigação em Psicologia Social e Organizacional**, II. Lisboa: Edições Colibri.
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41. Duarte, H., & Lopes, D. 2010. Percursos de vida profissional, satisfação e motivações perante o trabalho: Integrando os modelos de desenvolvimento de carreira com os modelos de ocupações profissionais. In J. Machado Pais & V. S. Ferreira (Eds), **Tempos e Transições de Vida. Portugal ao Espelho da Europa**. Lisboa: Instituto de Ciências Sociais.
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51. Ramos, S. 2010. **Envelhecimento, trabalho e cognição: do laboratório para o terreno na construção de uma alternativa metodológica**. Lisboa: Fundação Calouste Gulbenkian.

52. Santos, S. C., & Caetano, A. 2010. Entrepreneurs' selection methodology in Social Entrepreneurship Programs. In A. Surdej, & K. Wach (Eds.), ***Exploring the Dynamics of Entrepreneurship***. Toruń-Krakow: Wydawnictwo Adam Marszałek.

10. Paper presentation at international and national conferences (Examples)

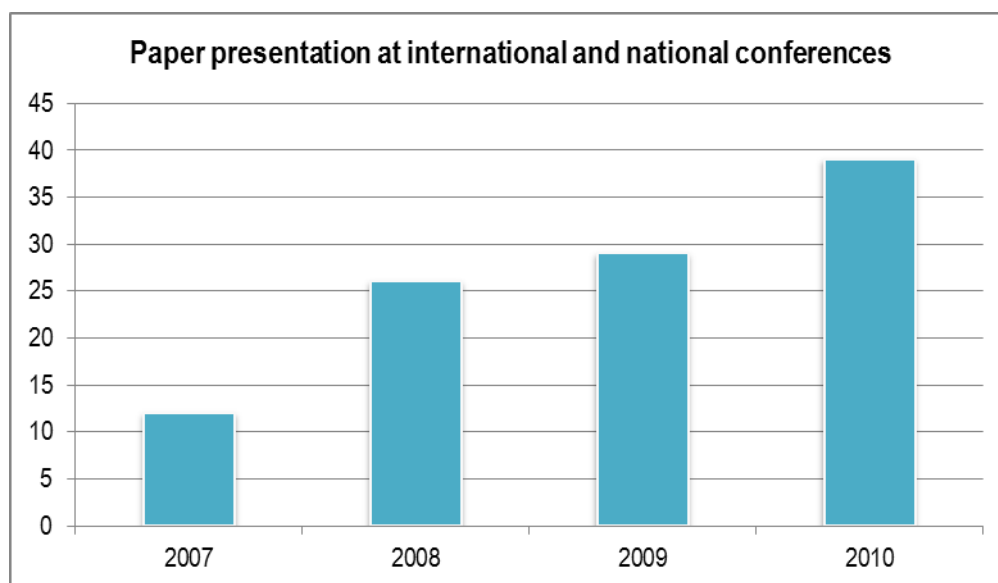


Figure 53 – Paper presentation at international and national conferences (2007-2010).

The above graph illustrates the positive evolution of the Group's active participation and contribution through paper presentation in international and national conferences, examples of which are given below:

1. Costa, J., & Passos, A. 2007. Poster. Team climate and creativity: the impact of tasks along the process. ***XIIIth European Congress of Work and Organizational Psychology***. Stockholm, Sweden.
2. Duarte, P., Mouro, C., & Neves, J. 2007. Social representation of corporate social responsibility in Portugal. ***6th Annual Colloquium of The European Academy of Business in Society***. ESEAD, Barcelona.
3. Neves, J. G. 2007. Da formação qualificante à gestão de competências. ***TIC, Organização do Trabalho, Competências e Empregabilidade***. ISEG, Lisbon.

4. Passos, A., & Caetano, A. 2007. Searching for team diversity profiles: how diversity types are combined to produce different team performance paths. **Lisbon-Sloan/MIT Seminar Séries in Management Science**. Lisbon.
5. Trigo, V., Shaozhuang, M., & Kong, E. 2007. Impact of HRM performance on job satisfaction: evidence from young managers in Chinese domestic enterprises. **Academy of International Business Conference**. Hangzhou, China.
6. Alves da Costa, F., Santos, S., Passos, A., & Caetano, A. 2008. Um olhar sobre a satisfação com o trabalho...estudo de caso. **VI Congresso Português de Sociologia - Mundos Sociais: Saberes e Práticas**. Lisboa: Universidade Nova de Lisboa, Faculdade de Ciências Sociais e Humanas.
7. Silva, S., & Jamal, S. 2008. Training and promotion of safety behaviors: the role of knowledge and self-efficacy. **Work, Stress, and Health 2008: Healthy and Safe Work Through Research, Practice, and Partnerships**. Washington DC, USA.
8. Gonçalves, S., Sales, C., Neves, J., & Carvalho, H. 2008. Estudo exploratório das qualidades psicométricas da escala de fontes de stress em contexto policial (EFSCP). **7.º Congresso Nacional de Psicologia da Saúde**. Sociedade Portuguesa de Psicologia da Saúde, Lisbon.
9. Ramos, S., Rebelo, F., Gonçalves, I., & Simões, H. 2008. The contribute of ergonomic design in the interaction with control displays. **Congresso Internacional de Ergonomia – Applied Humans Factors and Ergonomics 2008**. Las Vegas, USA.
10. Duarte, H., & Lopes, D. 2009. Contrasting career stages and occupations effects' on work related motivations and satisfaction. Communication presented at the **6ª Conferência da Dutch HRM Network**. Amsterdam, Netherlands.
11. Esteves, T., & Caetano, A. 2009. Human resource management practices, organisational involvement and work behaviors: the importance of training and development. **EDEN Annual Conference**. Gdansk, Poland.
12. Rego, A., Ribeiro, N., Cunha, M. P., & Jesuino, J. C. 2009. How happiness mediates the relationship between perceptions of organizational virtuousness and affective commitment. **The 28th International Conference on Business and Information**. Kuala Lumpur, Malaysia.
13. Silva, S. 2009. Safety shared responsibilities and promoting safety participation. Communication presented at the **EAWOP Small Group Meeting "Distributed Leadership and Participation in Organisations"**. Dresden, Germany.
14. Cortez, C., & Passos, A. M. 2010. The role of autonomy support and work engagement in Job satisfaction and proactivity: a study in the Portuguese financial industry. **9th Conference of the European Academy of Occupational Health Psychology**. Rome, Italy.

15. Gomes, D., & Neves, J. 2010. A atractividade organizacional e a imagem do empregador e seus efeitos na intenção de candidatura a uma oferta de emprego: contributos para compreender a atracção de candidatos às organizações. **VII Congreso Iberoamericano de Psicología**. Oviedo, Spain.
16. Lopes, D., & Duarte, H. 2010. La détermination des qualités psychométriques de l'échelle de distance au pouvoir: le construit et sa validation. **8eme Congrès International de Psychologie Sociale en Langue Française**. Nice, France.
17. Lewis, D., Morgan, A., Duarte, H., & Finnear, J. 2010. Bullying in the National Health Service: evidence from a regional staff satisfaction survey. **7th International Conference on Workplace Bullying & Harassment**. Cardiff, U.K.

11. Publications in Conference Proceedings

1. Duarte, P., Mouro, C., & Neves, J. 2007. Social representation of corporate social responsibility in Portugal. **Proceeding of the Workshop on Research Advances in Organizational Behavior, Human Resources Management and Corporate Social Responsibility**. Toulouse: LIRHE & GRACCO CNCRS.
2. Gonçalves, S., & Neves, J. 2007. The impact of burnout on organizational commitment: The moderating effects of family, friends and supervisor social support. In P. Roussi, E. Vassilaki, K. Kaniasty & J. Barker (Eds.), **Electronic Proceedings of the 27th STAR Society Conference**, :123-132.
3. Aryee, S., Zhou, Q., Sun, L. Y., & Lo, S. 2009. Perceptions of politics, intrinsic motivation and creative performance: evidence from the service sector. **Proceedings of the Academy of Management**.
4. Duarte, A. P., & Neves, J. 2010. O impacto da responsabilidade social nas atitudes dos colaboradores: Um estudo experimental. In C. Nogueira, I. Silva, L. Lima, A. T. Almeida, R. Cabecinhas, R. Gomes, C. Machado, A. Maia, A. Sampaio & M. C. Taveira (Eds.), **Actas do VII Simpósio Nacional de Investigação em Psicologia**, : 2296-2310.
5. Gomes, D., & Neves, J. 2010. Qual o processo psicológico que leva às intenções de candidatura a uma oferta de emprego?. Published in **Actas do VII Simpósio Nacional de Investigação em Psicologia**. Universidade do Minho, Portugal.

6. Gomes, D., Duarte, A., & Neves, J. 2010. E quanto os efectivos pretendem sair? Contributos para a compreensão dos processos psicológicos subjacentes às intenções de abandono. Published in ***Actas do VII Simpósio Nacional de Investigação em Psicologia***. Universidade do Minho, Portugal.
7. Duarte, A. P., & Neves, J. 2010. Fostering employees' organizational citizenship behavior: the role of corporate investment in social responsibility. ***Proceedings of the 12th Biennial ISSWOV Conference***.

12. Organization and Co-Organization of Conferences:

- Caetano, A. (Coord.), Santos, S., Graça, A. M., Gomes, C., Nascimento, G., Almeida, F., Tavares, S., & Silva, V. H. 2009. I Simposium Nacional sobre Formação e Desenvolvimento Organizacional. ISCTE-IUL. 21-22 January 2009;
- Caetano, A., Chambel, M. J., Silva, S., Roberto, M., Tavares, S. & Castanheira, F. 2009. XIth European Conference on Organizational Psychology and Human Service Work - New challenges and interventions in human services. ISCTE-IUL. Lisbon. 22-24 October 2009;
- Neves, J. (Chairman), Chambel, M.J., Silva, S., Gonçalves, S. & Ângelo, R. 2010. Organization of the "4th International Seminar on Positive Occupational Health Psychology". ISCTE-IUL, 31 May - 2 June, 2010.
- Passos, A. M., Carvalho, S., & Castro P. 2008. Fórum Gerações no Trabalho, under the European Project SPReW - Generational Approach to the Social Patterns of Relation to Work CE-6^oPQ, Contract 028408; 01/06/2006 to 01/06/2008. ISCTE-IUL. Lisbon. 15-April 2008;
- Silva, S. 2009. Organization of the 3rd International Workshop of the Organizational Participation in Europe Network OPEN. ISCTE-IUL. 12-14 November 2009;
- Silva, S. 2009. Organization of the III Encontro Nacional de Riscos, Segurança e Fiabilidade. IST. 3-5 November 2009.
- Silva, S. 2010. Organization of the "Seminário CAPTAR – Aprender para prevenir". One day seminar to close the project CAPTAR. ISCTE. 25 November 2010.
- Silva, S., & Ramos, S. 2010. Organization of the CAQRE 2010 - 3rd European workshop on COMPUTER-AIDED QUALITATIVE RESEARCH 2010 "*Meeting the challenges and opportunities of integrating software into qualitative research*". ISCTE-IUL, 7 & 8 October.

13. Doctoral Program

- The Ph.D. in Human Resources Management is coordinated by Ana Margarida Passos. The doctoral Program's curriculum has a multidisciplinary format and is designed to provide advanced training in basic and applied research in several areas of Human Resources; it promotes deeper theoretical, conceptual, and methodological knowledge on the micro and macro phenomena of such areas.
- Moreover, this Ph.D. aims to help students develop research skills, to encourage the dissemination of results at national and international levels, and to have all students defended their thesis within three years.

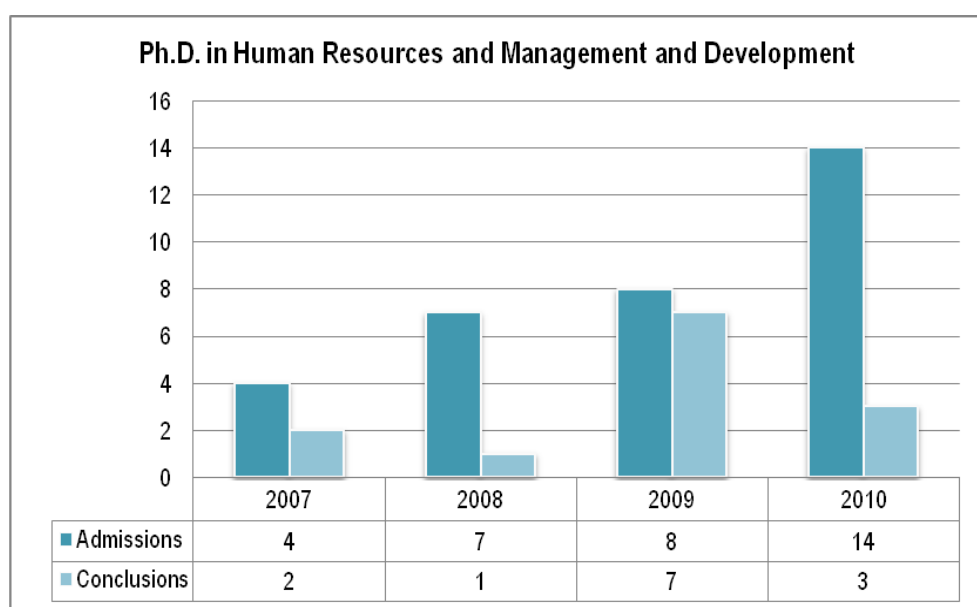


Figure 54 – Ph.D. in Human Resources and Management and Development.

Ph.D. Theses Completed

Ph.D theses Completed in 2007

- Henrique Duarte - “Os Efeitos da Confiança e da Distância ao Poder na Cooperação e Oportunismo: Modelo dos Antecedentes Normativos da Cooperação”,

- João Pissarra – “Geração de ideias Mediada por Computador”;
- Pedro Neves – “Can I trust when we change? Antecedents, consequences and moderators of interpersonal trust within organizational change interventions”.

Ph.D theses Completed in 2008

- Ana Raquel Velada – “Avaliação da eficácia da formação profissional: Factores que afectam a transferência da formação para o local de trabalho”;
- Célia Soares – “Género, afectos e poderes. Representações sociais em crianças do ensino básico”;
- Maria Helena Vinagre – “A satisfação de utentes de serviços públicos de saúde: preditores e mediadores”.

Ph.D theses Completed in 2009

- Maria de Mesquita Sousa-Lima – “Relações de troca social nas organizações: A importância da confiança organizacional”;
- Maria Teresa Pereira – “Práticas de gestão de recursos humanos e atitudes e comportamentos de trabalho: Estudo de caso no sector bancário português”.
- Susana Tavares – “ Fenómeno da identificação organizacional: contributos para a sua explicação”;

Ph.D thesis Completed in 2010

- Paulo Vitória - O impacto da influência social na intenção de fumar e no comportamento tabágico dos jovens portugueses.

14. Internationalization

- The development of two European Projects has leveraged the Group's research activities to broader recognition and deeper academic scrutiny. Furthermore, it enables Group members to come into contact with other outstanding researchers, enhancing overall knowledge on subjects under analysis.
 1. "Improving quality and safety in the hospital: the link between organizational culture, burnout, and quality of care". Project nr. 242084 under the 7th Framework Program Priority 7. It is nationally coordinated by Ana Margarida Passos National Coordinator and globally by Efharis Panagopoulou from ARISTOTELIO PANEPISTIMIO THESSALONIKIS. Its transnational partners are Greece, Bulgaria, Portugal, Macedonia, Turkey, Croatia, Romania, Ireland and UK;
 2. "New European industrial relations: empowering European worker representatives to negotiate flexible, fair and innovative labor relations". Project nr. VS/2010/0376, nationally coordinated by Ana Margarida Passos and globally by Lourdes Munduate from University of Seville. It has four transnational partners: Spain, Germany, Belgium, Netherlands, Estonia, UK and Portugal.
- Ana Margarida Passos was elected to the Executive Committee of the European Association of Work and Organizational Psychology (EAWOP) for the period 2005 - 2011.
- Ana Margarida Passos was external referee of the evaluation panels for research projects and post-doctoral grants in the field of psychology of the Research Council for Culture and Society at the Academy of Finland. (May 2008 and June 2009).
- Ana Margarida Passos was member of the PhD thesis committee of Miriam Benítez González from University of Seville with a thesis title "Elementos facilitadores e inhibidores de la calidad de servicio: estudio del conflicto, bienestar laboral y apoyo social de las unidades de trabajo (September 2010).

Marketing Subject Area Group

Research Group Title: **Marketing**

Principal Researcher: Rui Vinhas da Silva

Main Scientific Domain: Marketing

Home Institution: ISCTE-IUL Instituto Universitário de Lisboa

The recently formed Group of Marketing comprises researchers from the Management Research Center with a specific focus on the Marketing field of studies. In 2010, this broader Department was sub-divided into other two different Groups with narrower and more specific fields of research: the General Management Group; and the Organizational Behavior and Human Resources.

1. Group's Internal Organization

The Marketing Group currently comprises fourteen (14) researchers, six (6) of whom are eligible for funding – one (1) due to attain conclusion of doctoral degree in less than 3 years; two (2) participating in a funded project; and five (5) with publications (either one (1) ISI or three (3) N-ISI); some therefore comply with more than one rule for integrated membership.

MARKETING Group			
Members:	Status:		
	Eligible	Associate	Assistant
1. Bárbara Leão			AI
2. Carmen Helena de Freitas Lages	E		
3. Cristina Cardigo			AI
4. Hélia Gonçalves Pereira	E		
5. Jacqueline Canuto			AI
6. José Pedro da Cunha Catalão Dionísio		A	

7. Leonor Lopes Borges Vacas de Carvalho		A	
8. Maria da Conceição Sarrico dos Santos	E		
9. Mónica Borges			AI
10. Paulo Miguel Rasquinho Ferreira Rita	E		
11. Ralitza Nikolaeva	E		
12. Reinaldo Anibal Gomes Proença		A	
13. Rui Vinhas da Silva	E		
14. Susana Maria Marques da Cunha		A	

Figure 55 – Group's internal organization

2. Researchers

Currently, the Group has one researcher affiliated to another University (Univ. de Évora). Six (6) Group researchers have completed their Doctoral studies abroad (Warwick Univ.; Hautes Études Commerciales (France); I.A.E. d'AIX Marseilles; Purdue Univ.; Cardiff Univ.; Univ. of Manchester.), The Group has successfully attracted one (1) foreign researcher from Bulgaria.

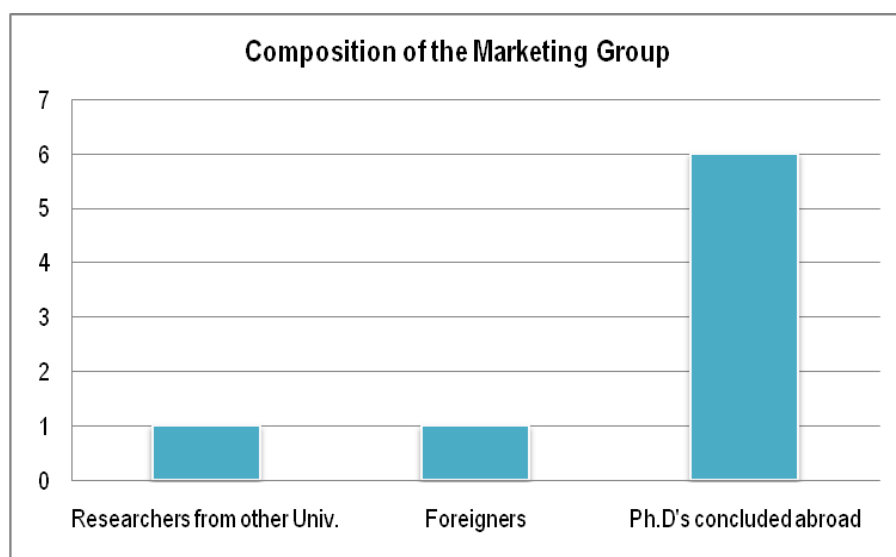


Figure 56 – Current distribution of the Group's researchers: foreigners, doctoral degrees abroad, and researchers from other Universities.

3. Funding sources; Dates

A member of this Group coordinates the following project which has been active throughout the four-year period under analysis:

- “Investigating consumer purchases of related technology products across countries in the E.U. region”. Project nr. PTDC/EGE/GES/108997/2008, coordinated by Ralitza Nikolaeva, with total budget of 64,420.00€.

Members of the Marketing Group participate in the following project which has been undertaken during the reported period:

- “Linking Business-to-Business relationship management inputs with financial and objective outcomes”. Project nr. PTDC/GES/70167/2006, coordinated by Luís Filipe Costa Lages (From Universidade Nova de Lisboa), with total budget of 73,408.00€.

4. Objectives

In 2010, and following the recommendations of the Evaluation Panel (2003-6), the Marketing Group spun-off the recently extinct Management Research Center and established the following objectives:

- International recognition as an excellent research group producing focused and innovative research and publishing in top academic journals in marketing;
- To develop collaborative research projects with national and international universities and researchers leading to international recognition;
- To promote the integration of researchers in international networks;
- To increase the diffusion of scientific knowledge by presenting research in top international conferences;
- To exploit synergies with the Ph.D. Program and motivate graduate students to develop world-class research;
- To disseminate research to enterprises and the industry by continuing to produce books – researchers have written nationally acclaimed books in the field.

5. Main Achievements

- Although recently set up, the Group has started to publish focused research in Marketing with articles forthcoming in journals such as the “International Journal of Integrated Marketing Communications” and the “Journal of Brand Management”. Nevertheless, articles on Marketing were published throughout the period under analysis by several Group members who belonged to the former Management Research Center at the time. As the graph below clearly illustrates, researchers from this Group published 4 articles in ISI indexed journals (2 in 2007 and 2 in 2008) and 16 in other peer reviewed international journals, and 3 out of the latter were published in 2010 (already as Group of Marketing):



Figure 57 – Evolution of international publications from 2007 to 2010.

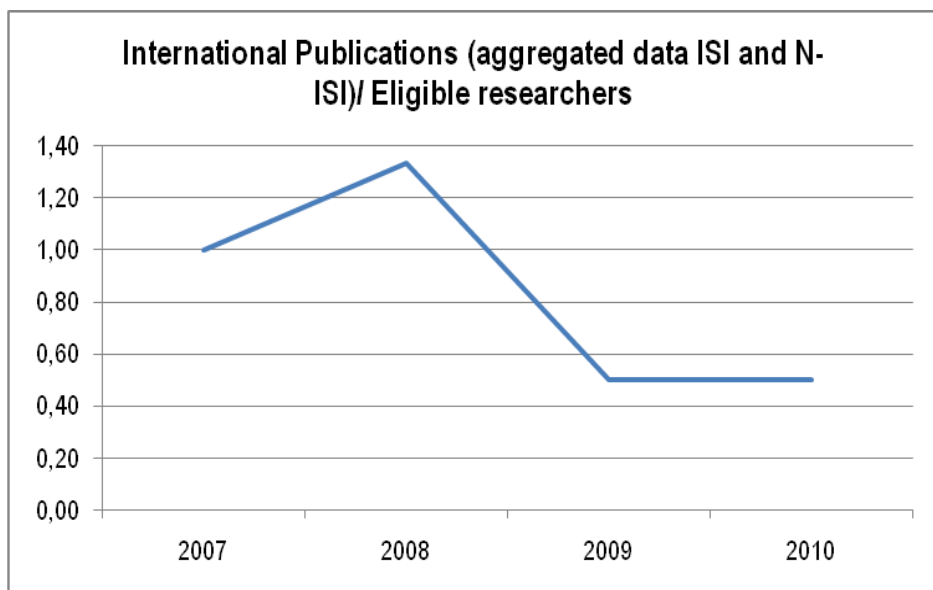


Figure 58 – Publications per eligible member from 2007 to 2010.

- Members of the Group continued their collaboration in the project PTDC/GES/70167/2006, whose principal investigator is based at the Universidade Nova de Lisboa;
- Members of the Group were actively involved in organizing the prestigious “2011 EMAC”, as next year’s conference will be hosted by ISCTE-IUL; this resulted from the proposal – and approval – presented by the now nonexistent Management Research Center at the European Marketing Academy executive committee to organize the “2012 EMAC Annual Conference”;
- Members of the Group presented papers in prestigious conferences, such as the “AMA” and the “EMAC”;
- Group members completed the supervision of 9 Ph.D. students;
- Group researchers continued their links with enterprises and the industry through the GIEM, a consultancy in which most members are partners.

6. Publications in Peer Reviewed Journals

ISI Publications

1. Nikolaeva, R. 2007. The dynamic nature of survival determinants in e-commerce. ***Journal of the Academy of Marketing Science***, 35: 560-571.
2. Nikolaeva, R. & Sriram, S. 2007. The moderating role of consumer and product characteristics on the value of customized online recommendations. ***International Journal of Electronic Commerce***, 11(2): 101-123.
3. Lages, L. F. & Lancastre, A. & Lages, C. 2008. The B2B-RELPERF scale and scorecard: bringing relationship marketing theory into business-to-business practice. ***Industrial Marketing Management***, 37(6): 686-697.
4. Vinhas da Silva, R. & Alwi, F. 2008. Online brand attributes and online corporate brand images. ***European Journal of Marketing***, 42(9-10): 1039-1058.

N-ISI Publications

1. Dionísio, P. 2007. Surf tribal behavior - a sports marketing application. ***Marketing Intelligence & Planning***, 25 (7). pp. 668-690.
2. Moutinho, L. & Rita, P. & Shuliang L. 2007. Strategic diagnostics and managerial judgement: a hybrid knowledge-based system. ***International Journal of Intelligent Systems in Accounting, Finance and Management***.
3. Vinhas da Silva, R. & Batista, L. 2007. Bosting government reputation through CRM. ***International Journal of Public Sector Management***, 20(7).
4. Vinhas da Silva, R. & Rahimi, I. 2007. A critical success factor model for CRM implementation. ***International Journal of Electronic Customer Relationship Management***, 1(1): 3-15.
5. Alwi, F. & Vinhas da Silva, R. 2008. Online and offline corporate brand images: do they differ. ***Corporate Reputation Review***, 10.
6. Dionísio, P. & Leal, C. & Moutinho, L. 2008. Fandom affiliation and tribal behavior - a sports marketing application. ***Qualitative Market Research***, 11 (1). pp. 17-39
7. Dionísio, P. 2008. A phenomenological research study on sports fandom in Portugal: a comparative study of surfing and football. ***Journal of Euromarketing***, 17(3-4): 233-253.
8. Ueltschy, L. & Laroche, M. & Rita, P. & Bocaranda, C. 2008. A Pan-European approach to customer satisfaction: an optimal strategy?. ***Multinational Business Review***, 12.
9. Vinhas da Silva, R. & Alwi, F. 2008. Online corporate brand image, satisfaction and loyalty. ***Journal of Brand Management***, 16(3): 119-144.
10. Vinhas da Silva, R. & Alwi, F. 2008. The link between offline brand attributes and corporate brand image in bookstores. ***Journal of Product and Brand Management***, 17(3): 175-187.
11. Alturas, B. & Santos, M. C. 2009. Direct selling: consumer profile, clusters and satisfaction. ***European Retail Research***, 23(1): 47-68.
12. Nikolaeva, R. & Kalwani, M. & Robinson, W. & Sriram, S. 2009. Surviving determinants for online retailers. ***Review of Marketing Science***, 7(1).
13. Nikolaeva, R. & Yoon E. & Carter, E. 2009. Art Institute of Chicago – case study. ***International Journal of Integrated Marketing Communications***, 1(2): 72-84.

14. Owens, J. & Nikolaeva, R. & Younkin, N. & Carter, E. 2010. Scratch-off summer games at lettuce Entertain You in Chicago – case study. *International Journal of Integrated Marketing Communications*, 2(2).
15. Pires, G. & Rita, P. & Stanton, J. 2010. Assessing relevancy of ICT driven consumer empowerment for business. *Global Business and Economics Anthology*, 2(1): 293-302.
16. Salazar, A. & Costa, J. & Rita, P. 2010. A service quality evaluation scale for the hospitality sector: dimensions, attributes and behavioral intentions. *Worldwide Hospitality and Tourism Themes*, 2(4): 383-397.

7. Impact of Scientific Production

The “SJR – cites per doc (2 years)” is computed using the average number of citations to articles published in science and social science journals, and therefore used as a proxy for the relative importance of a certain journal within its field. The table below presents aggregated statistical information on the Marketing Group’s articles with available “SJR”, and the following graph shows the average and total number of articles with available “SJR” per year:

MARKETING

“SJR - Cites per Doc. (2y)” computes the average number of citations to articles published in science and social science journals and used as a proxy for the relative importance of a certain journal. Additionally, the indicator is not available to all Journals.

Average of Published Articles' SJR	1.130
Standard Deviation of Published Articles' SJR	0.688
Total of Published Articles' SJR	10.172
Highest SJR	2.124
Lowest SJR	0.108

Figure 59 – Aggregated statistical information on the Group’s SJR. NB decimals

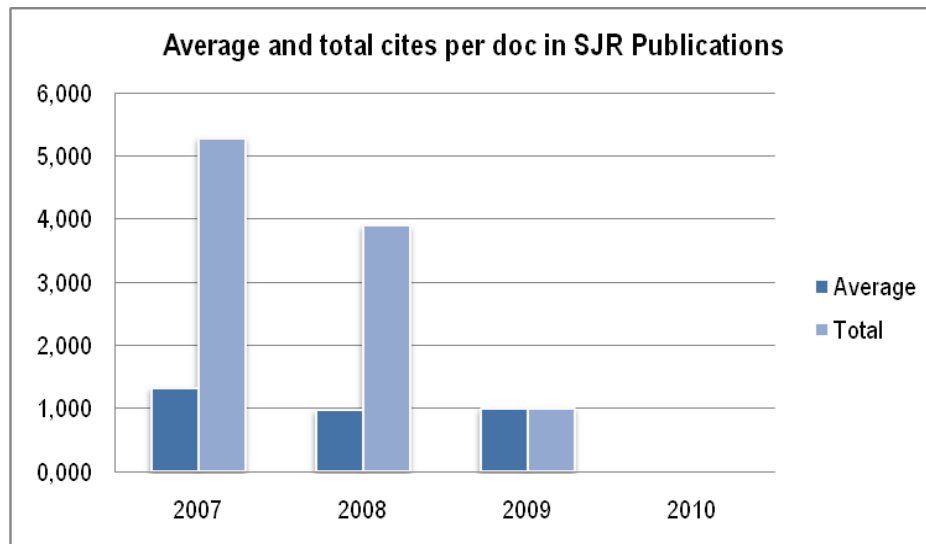


Figure 60 – Average and total number of publications per year with “SJR – cites per doc”.

8. Paper Presentation at International and National Conferences (Examples)

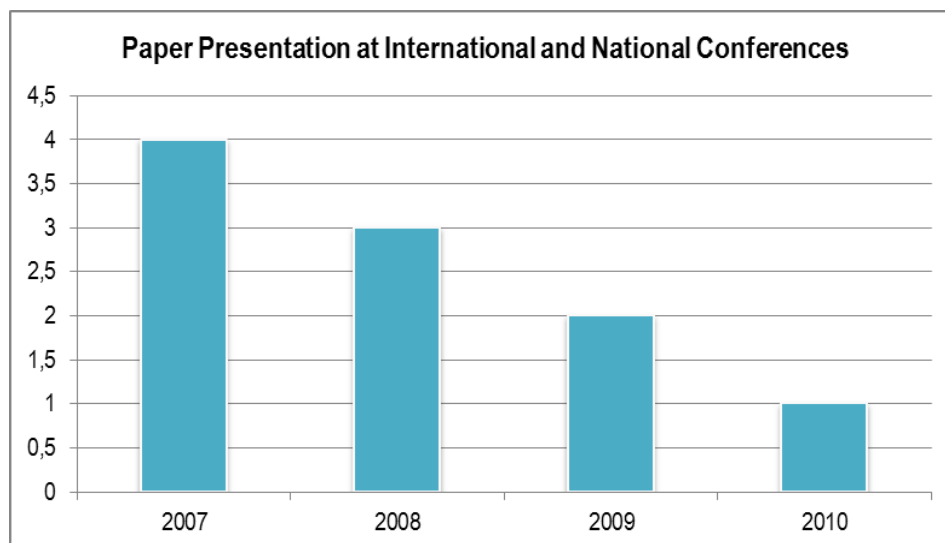


Figure 61 – Evolution of paper presentation in conferences over the reported period.

- Antunes, J., & Rita, P. 2007. Effects of relationship marketing and loyalty in a SPA context. **European Marketing Academy Conference**. Iceland.
- Cunha, S., & Salgueiro, M. F. 2007. The Influence of Insignia on Store Environment. Communication presented at the **36th EMAC Conference**. Reykjavik, Iceland.

- Cunha, S., & Salgueiro, M. F. 2007. O efeito moderador da “insígnia” no impacto dos critérios de escolha de um ponto de venda na intenção de voltar. Communication presented at the **XV Congresso Sociedade Portuguesa de Estatística**. Lisbon, Portugal
- Machado, J., Lencastre, P., & Dionísio, P. 2007. Corporate identity – the management of the process of change in the name/ logo in a contexto of brands merger. **Annual Conference of the European Advertising Academy**. Lisbon.
- Cunha, S., & Salgueiro, M. F. 2008. Store environment: the value of insignia. Communication presented at the **15th EIRASS Recent Advances in Retailing & Services Science Conference**. Zagreb, Croatia.
- Nikolaeva, R. 2008. Writing a case and student learning. Active learning in IMC classrooms. **Chicago Association of Direct Marketing Educational Foundation Academy Update**. Chicago, U.S.A.
- Salazar, A., Rita, P., & Costa, J. 2008. Dimensions of consumer satisfaction in hospitality services. **The 37th European Marketing Academy Conference**. Brighton, U.K.
- Cunha, S., Salgueiro, M. F. & Crespo de Carvalho. 2009. The influence of multiple store choice criteria on patronage intentions. Communication presented at the **38th EMAC Conference**. Nantes, France.
- Nikolaeva, R. 2009. (Non) Proportional hazards regression modeling: an application to E-commerce. **The 38th European Marketing Academy Conference**. Nantes, France.
- Pereira, H., Rita, P., & Salgueiro, M. F. 2009. The traditional determinants of online tourism purchase. **Academy of Marketing Conference**. Leeds, U.K.
- Travassos, D., & Rita, P. 2009. The impact of sport tourism in destination loyalty. **Academy of Marketing**. Leeds, U.K.
- Cunha, S., & Freitas, M. 2010. Distribution management in the Health Club Industry. Communication presented at the **17th EIRASS Recent Advances in Retailing & Services Science Conference**. Istanbul, Turkey.

8. Organization and Co-Organization of Conferences and seminar series:

- Members of this Group organized the “2010 EDAMBA” and were actively involved in organizing the “2011 EMAC”;
- Members of this Group actively collaborated in the organization of the “2010 Gira Conference” promoted by a member of the Finance Group (José Paulo Esperança);
- Members from this Group also participated actively in the organization of the “2010 Entrepreneurship Conference” promoted by the AUDAX center (The Entrepreneurship Center of ISCTE-IUL).

Seminar series co-organized by this Group included presentations by:

- “The role of imitation in retailers’ adoption of the internet channel”. 2009. Conference with papers presented by Ralitz Nikolaeva, A. Bhatnagar, and S. Ghose. ISCTE-IUL.

9. Doctoral Program

- The doctoral Program in Marketing is the outcome of a long journey initiated ten years ago (in 2001) when the Ph.D. in Management with a specialization in Marketing was first launched. The fact that the latter attracted doctoral students from all over the country, as well as from foreign countries such as Brazil, Poland and the Portuguese Speaking African Countries (PALOP) was the trigger to an experience of internationalization.

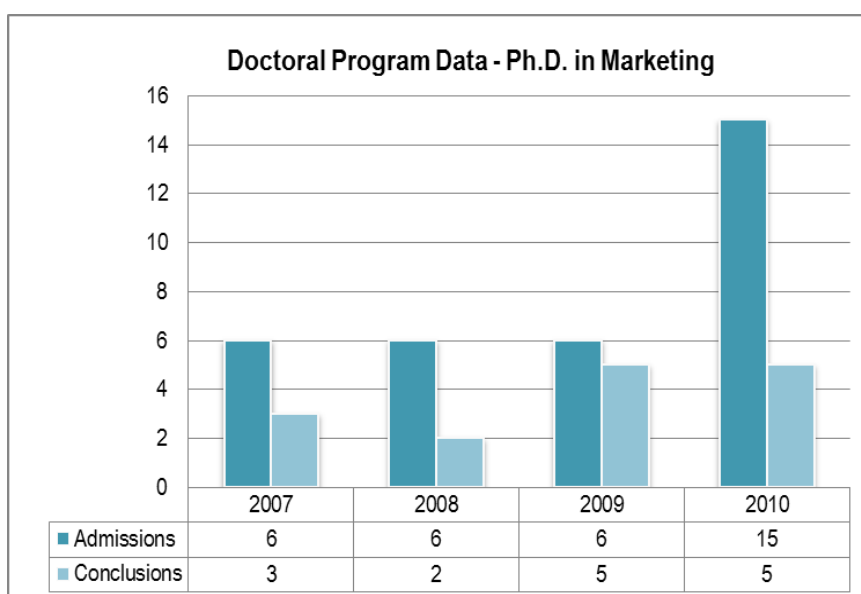


Figure 62 – Ph.D. in Marketing number of admissions and conclusions per year.

Ph.D. Theses Completed

Ph.D theses supervised by Group members in 2007

- Ana Filipa Corte-Real – "A atitude das crianças face às mascotes das marcas";
- Ana Salazar – "Avaliação da qualidade do serviço, satisfação e intenções de comportamento dos consumidores de hotéis de 4 e 5 estrelas de cadeia em Portugal";
- Paula Carvalho Matos – "Modelação do processo de decisão de compra de bens alimentares".

Ph.D theses supervised in 2010

- Ana Catarina Cadima Lisboa – "Dynamic capabilities in international markets: their antecedents and future performance outcomes";
- Carlos Luís Sequeira Lopes – "A cooperação na distribuição de vinho do Porto";
- Kátia Coelho Faggiani – "A chave para a sobrevivência de produtos de luxo: influência, percepção e comportamento do consumidor";
- Luísa Cláudia Lopes Agante – "As influências sobre as crianças na escolha de marcas de roupa e calçado";
- Paula Rosado Hortinha – "Integrating buyer and supplier perspectives in the same relationship model in a B2B context";
- Paulo Alexandre de Oliveira Castro Ribeiro – "Determinantes na percepção de qualidade do serviço educacional: abordagem pelo aluno do ensino superior".

Internationalization

- In 2008 one of the Group members, Paulo Rita, was invited to be one of the two chairpersons of the Tourism Marketing competitive track of the "EMAC" Conference from 2010 onwards;
- The "EDAMBA" (2010) and the "EMAC" (2011) constituted the most important internalization activities of the Group which has chosen to focus on selective and high impact publications and events.

Government/ Organization Contract Research

- Linking Business-to-Business Relationship Management Inputs with Financial and Objective Outcomes, (PTDC/GES/70167/2006);
- Investigating Consumer Purchases of Related Technology Products Across Countries in the EU Region, (PTDC/EGE/GES/108997/2008).

III

The Impact of Groups' Scientific Production

The Impact of Groups' Scientific Production

A further analysis will be made of the scientific production of Groups and researchers through the indicator “SJR – cites per doc (2 years)”, which attempts to provide an impartial, meticulous and thorough measure of the impact of an average article published in the journal.

“SJR – cites per doc (2 years)” is computed using the same formula as journal impact factor TM (Thomson Reuters), an exceedingly prestigious and academically recognized indicator that reflects the average number of citations to articles published in science and social science journals, and therefore used as a proxy for the relative importance of a certain journal within its field.

The numbers presented below relate to all publications from 2007 to 2010. As Groups' constitution has varied over this period, the logic underlying the following table is the same as in the above chapters. Articles are thus collected according to authors' current group affiliation.

	Average regarding articles w/ SJR	Standard Deviation regarding articles w/ SJR	Total of SJR	Total of published international articles	Number of articles w/ SJR
Accounting	0.826	0.678	4.954	15	6
Applied Statistics	1.087	0.459	18.485	32	17
Econometrics and Econoph.	1.094	1.120	28.454	61	26
Economics	1.054	0.878	44.275	59	42
Finance	0.970	0.584	24.257	25	25
General Management	1.209	0.750	32.639	48	27
Org. Behavior and Hum. Res.	1.013	0.479	16.207	34	16
Marketing	1.130	0.688	10.172	20	9
		Total	179.443	294	168

Figure 1 – Summary of the impact of Groups' scientific production from 2007 to 2010.

Summary of Impact of Groups' and Researchers' Scientific Production

All journals with available "SJR – cites per doc" in which Group members have published are listed below, organized by year of publication.

The researchers' average is also presented with the same indicator, as well as the record of all articles published and all of those with available SJR.

It should be noted that three ad-hoc sub-chapters on "Comprehensive interpretation of published articles' content'" will further complement the information of the Groups of Applied Statistics, Econometrics and Econophysics, and Economics. The separate analysis regards articles whose content may be related to mathematics, and this aims to measure their weight in relation to the overall published articles. The comparison enables the unit to evaluate the impact and extent of this type of publication on the Groups' indicators.

1. ACCOUNTING GROUP

List of all Journals with available “SJR – cites per doc” in which this Group’s researchers have published:

ACCOUNTING

	Description:	“SJR – Cites per Doc. (2y)”: It measures the scientific impact of an average article published in the journal, it is computed using the same formula as journal impact factor TM (Thomson Reuters).
2007	Journal of Contemporary Hospitality Management	0,615
2009	Accounting, Auditing and Accountability Journal	1,571
2009	Australian Accounting Review	0,300
2010	European Accounting Review	1,769
2010	Review of Quantitative Finance and Accounting	0,544
2010	Journal of Private Equity	0,155
Average of Published Articles’ SJR		0.826
Standard Deviation of Published Articles’ SJR		0.678
Total of Published Articles’ SJR		4.954
Highest SJR		1.769
Lowest SJR		0.155

1.1 ACCOUNTING GROUP

Researchers' averages and "SJR" totals for published articles:

	Average of "SJR" per researcher	Total of "SJR" per researcher	Number of Publications	Number of Publications w/ "SJR"
Ana Morais	0,422	0,844	6	2
Ana Simões	0	0	0	0
Helena Isidro	0	0	0	0
Isabel Lourenço	1,157	2,313	3	2
Maria Antónia de Jesus	0	0	0	0
Maria João Machado	0	0	0	0
Maria João Major	1,093	2,186	3	2
Paulo Lopes Dias	0	0	0	0
Pedro Ferreira	0	0	0	0
Sebahattin Demirkan	0,155	0,155	5	1
Victor Seabra Franco	0	0	0	0

2. APPLIED STATISTICS GROUP

List of all Journals with available “SJR – cites per doc” in which this Group’s researchers have published:

APPLIED STATISTICS

	Description:	“SJR – Cites per Doc. (2y)”: It measures the scientific impact of an average article published in the journal, it is computed using the same formula as journal impact factor TM (Thomson Reuters).
2007	Resources, Conservation and Recycling	1,514
2007	Journal of the Operational Research Society	0,966
2007	Journal of Retailing and Consumer Services	0,809
2008	Transport Policy	1,452
2008	European Planning Studies	1,376
2008	Journal of Mathematical Analysis and Applications	1,039
2008	Waste Management & Research	0,984
2008	Psychometrika	0,962
2008	Computational Statistics	0,671
2009	Journal of Environmental Psychology	2,000
2009	International Journal of Market Research	1,284
2009	Quality Assurance in Education	0,696
2009	Journal of Statistics Education	0,262
2010	Journal of Sustainable Tourism	1,632
2010	Multivariate Behavioral Research	1,276
2010	Social Science Computer Review	1,254
2010	Journal of Global Marketing	0,308
Average of Published Articles’ SJR		1.087
Standard Deviation of Published Articles’ SJR		0.459
Total of Published Articles’ SJR		18.485
Highest SJR		2.000
Lowest SJR		0.262

2.1 APPLIED STATISTICS GROUP

Researchers' averages and "SJR" totals for published articles:

	Average of "SJR" per researcher	Total of "SJR" per researcher	Number of Publications	Number of Publications w/ "SJR"
Abdul Suleman	0	0	0	0
Ana Gomes	0	0	0	0
Ana Brochado	1,175	3,524	6	3
Ana Maria Sampaio da Silva	0	0	0	0
Ana Martins	0	0	0	0
António Teixeira	0,819	1,638	3	2
Catarina Marques	1,632	1,632	1	1
Dália Nogueira	0	0	0	0
Elizabeth Reis	1,244	8,976	12	7
Francisco Figueiredo	0	0	0	0
Graça Trindade	0	0	0	0
Isabel Oliveira	0	0	1	1
João Reis Figueira	0	0	0	0
José Adão	0	0	0	0
José Gonçalves Dias	0,820	2,379	4	3
Manuela Maia	0	0	0	0
Maria de Fátima Salgueiro	1,387	3,892	4	3
Maria do Carmo Botelho	0	0	0	0
Gabriela Alves	0,966	0,966	1	1
Maria Madalena Ramos	0	0	0	0
Maria M. Magalhães Hill	1,052	1,052	1	1
Maria Margarida Saraiva	0	0	0	0
Maria Teresa Calapez	0,262	0,262	1	1
Nuno Lavado	0	0	0	0
Patrícia Serra	0	0	0	0

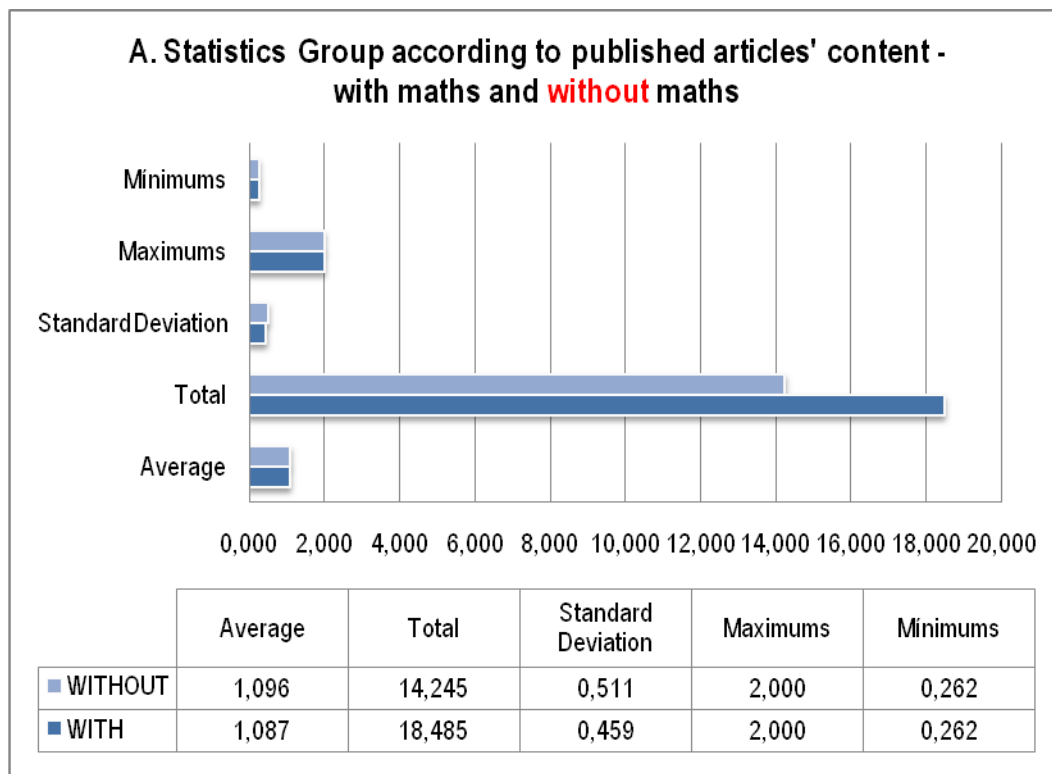
Paula Cristina Vicente	0	0	0	0
Paula Alexandra Vicente	0,784	5,344	8	5
Teresa Nogueiro	0	0	0	0
Raul Laureano	0	0	1	0
Virgínia Aveiro	0	0	0	0

2.2 Comprehensive interpretation of published articles' content

In addition to the previous analysis, it is of crucial importance to measure the weight and relative importance of published articles with mathematical content on the total of published articles. The following table summarizes all articles according to this indicator. This sub-chapter aims to survey the impact of the inclusion or exclusion of these on the average and totals of the Group. The reference methodology used is "SJR – cites per doc"

Nr.	Publications with Mathematical Content	SJR – cites per doc
1	Dias, J. G. 2007. Complete data information criteria for the Naive-Bayes model: a Monte Carlo study. <i>Journal of the Korean Statistical Society</i> , 36(3): 435-445	
2	Diogo, C. & Câmara, C. 2008. Invertibility of Toeplitz operators and corona conditions in a strip. <i>Journal of Mathematical Analysis and Applications</i> , 342(2),1297-1317.	1,039
3	Dias, J. G. & Vermunt, J. K. 2008. A bootstrap-based aggregate classifier for model-based clustering. <i>Computational Statistics</i> , 23(4): 643-659.	0,671
4	Teixeira, A. & Calapez, T. & Rosa, A. 2009. Statistical power analysis with Microsoft Excel: normal tests for one or two means as a prelude to using non-central distributions to calculate power. <i>Journal of Statistics Education</i> , 17(3).	0,262
5	Vicente, P. & Reis, E. 2010. Using questionnaire design to fight nonresponse bias in web surveys. <i>Social Science Computer Review</i> , 28(2): 251-267.	1,254
6	Salgueiro, M. F. & Smith, P. W. F. & McDonald, J. W. 2010. Connections between single-factor analysis and graphical Gaussian models. <i>Multivariate Behavioral Research</i> , 45(1): 135-152.	1,276
	Average	1.059
	Total	4.236

The following graphic illustrates the difference between the overall indicators previously presented (thus with all published articles) and the overall indicators for the current selection (without articles on mathematics).



As the figures and graphs clearly show, the exclusion of some publications due to mathematical analysis inevitably impacts the Group's performance.

The Group's average obviously declines when the six selected articles are excluded from the overall list of published articles due to the rating of the journals in which the removed articles were published.

As for the "Highest SJR" indicator, it is worth of note that, despite the impact previously mentioned, the rating does not drop after the removal of articles with mathematical content , indicating that the best rated article does not have any correlation with mathematics (Castro, P. & Garrido, M. & Reis, E. & Menezes, J. 2009. Ambivalence and conservation behaviour – an exploratory study on the recycling of metal cans. *Journal of Environmental Psychology*, 29(1): 24-33).

3. ECONOMETRICS and ECONOPHYSICS GROUP

List of all Journals with available “SJR – cites per doc” in which this Group’s researchers have published:

ECONOMETRICS AND ECONOPHYSICS

	Description:	“SJR – Cites per Doc. (2y)”: It measures the scientific impact of an average article published in the journal, it is computed using the same formula as journal impact factor TM (Thomson Reuters).
2007	Physica A	1,411
2007	Physica A	1,411
2007	Nonlinear Dynamics	1,154
2007	European Management Journal	1,108
2007	International Statistical Review	0,349
2007	International Advances in Economic Research	0,057
2008	Physica A	1,389
2008	International Statistical Review	0,298
2009	Clinical Journal of the American Society of Nephrology	5,330
2009	Nephrology Dialysis Transplantation	3,504
2009	American Journal of Physical Anthropology	2,188
2009	Intelligent Data Analysis	1,171
2009	Spanish Journal of Psychology	0,954
2009	Applied Economics	0,494
2009	Portuguese Economic Journal	0,474
2009	Journal of Applied Statistics	0,448
2009	Journal of Applied Statistics	0,448
2009	Journal of Macroeconomics	0,430
2009	Statistical Papers	0,386
2010	Journal of Money, Credit and Banking	1,275
2010	Econometric Theory	0,949
2010	International Journal of Market Research	0,899

2010	Empirical Economics	0,817
2010	Economic Modelling	0,794
2010	Journal of Applied Statistics	0,337
2010	Journal of Medical Marketing	0,368
Average of Published Articles' SJR		1.094
Standard Deviation of Published Articles' SJR		1.120
Total of Published Articles' SJR		28.454
Highest SJR		5.330
Lowest SJR		0.068

3.1 ECONOMETRICS and ECONOPHYSICS GROUP

Researchers' averages and total "SJ" for published articles:

	Average of "SJ" per researcher	Total of "SJ" per researcher	Number of Publications	Number of Publications w/ "SJ"
Ana Sousa Ferreira	0,954	0,954	3	1
Ana Figueiredo Martins	0	0	0	0
Felipa Dias de Mello Sampayo	0,452	1,356	4	3
Francisco Humberto Fortes Camões Costa	0,431	0,862	2	2
José Carlos de Castro Pinto	0,495	4,312	9	9
José Joaquim Dias Curto	0,960	16,905	15	15
Luís Filipe Farias Sousa Martins	0,784	3,919	5	5
Manuel Alberto Martins Ferreira	2,188	2,188	33	1
Maria Margarida Guerreiro Martins dos Santos Cardoso	1,035	2,070	6	2
Marina Alexandra Pedro Andrade	2,188	2,188	19	1
Nuno Rafael Barbosa de Jesus Ferreira	1,411	1,411	1	1
Rui Manuel Campilho Pereira de Menezes	0,764	4,335	7	4
Sofia de Sousa Vale	0,431	0,862	2	2
Sofia Portela	0	0	2	0

3.2 Comprehensive interpretation of published articles' content

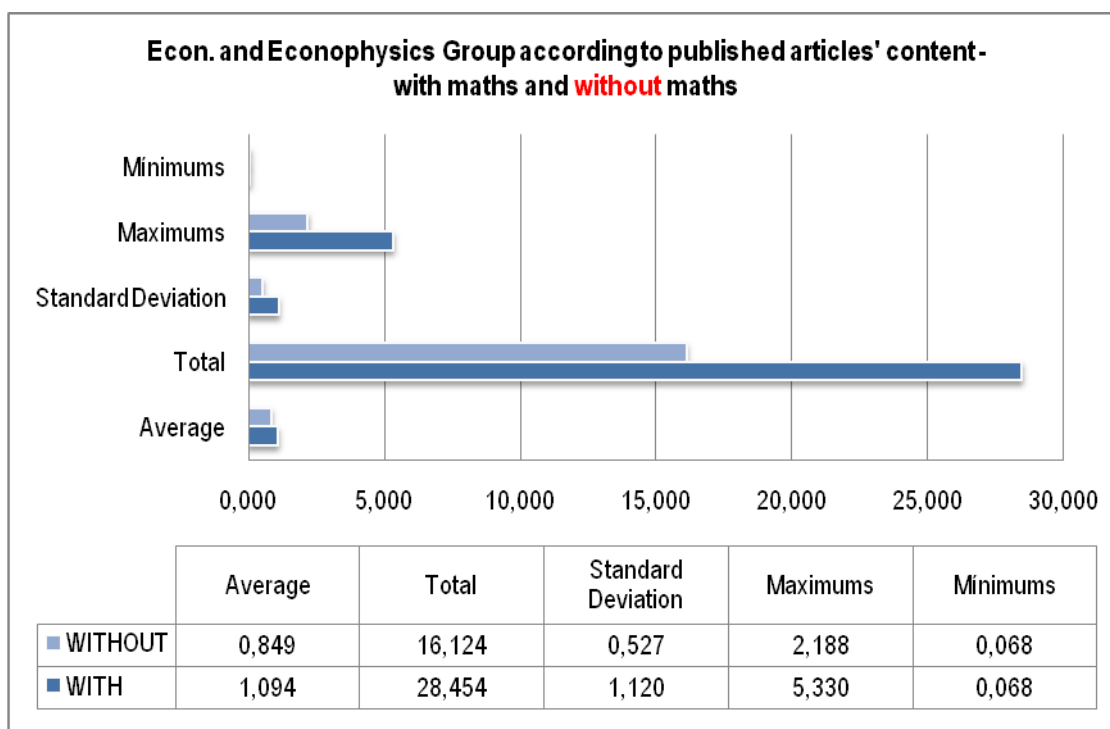
In addition to the previous analysis, it is of crucial importance to measure the weight and relative importance of published articles with mathematical content on the total of published articles. The following summarizes all articles according to this indicator. This sub-chapter aims to survey the impact of the inclusion or exclusion of these on the average and totals of the Group. The reference methodology used is "SJR – cites per doc".

Nr.	Publications with Mathematical Content	SJR – cites per doc
1	Portela, S., & Menezes, R. 2010. Analysing the customer churn risk using duration models. <i>Journal of Combinatorics, Information and System Sciences</i> , 35(1-2): 203-220.	
2	Ferreira, M. A. M. & Andrade, M. & Filipe, J. A. 2008. The Ricatti equation in the M/G/oo system busy cycle study. <i>Journal of Mathematics, Statistics and Allied Fields</i> , 2(1): 1-5.	
3	Ferreira, M. A. M. & Andrade, M. 2009. A note on Dawnie Wolfe Steadman, Bradley J. Adams, and Lyle W. Konigsberg statistical basis for positive identification in forensic anthropology. <i>American Journal of Physical Anthropology</i> , 131(): 15-26.	2,188
4	Ferreira, M. A. M. & Andrade, M. 2009. The ties between the M/G/oo queue system transient behavior and the busy period. <i>International Journal of Academic Research</i> , 1(1): 84-92.	
5	Matos, M. C., Ferreira, M. A. M., & Andrade, M. 2010. Code form game. <i>International Journal of Academic Research</i> , 2(1): 135-141.	
6	Ferreira, M. A. M. & Andrade, M. 2009. M/G/oo queue system parameters for a particular collection of service time distributions. <i>African Journal of Mathematics and Computer Science Research</i> , 2(7): 138-141.	
7	Ferreira, M. A. M., Andrade, M., & Matos, M. C. 2010. Separation theorems in Hilbert spaces convex programming. <i>Journal of Mathematics and Technology</i> , 1(5): 20-27.	
8	Ferreira, M. A. M., & Andrade, M. 2010. Algorithm for the calculation of the Laplace-Stieltjes transform of the sojourn time of a customer in an open network of queues, with a product form equilibrium distribution...". <i>Journal of Mathematics and Technology</i> , 1(4): 31-36.	
9	Ferreira, M. A. M., & Andrade, M. 2010. Looking to a M/G/oo system occupation through a Ricatti equation. <i>Journal of Mathematics and Technology</i> , 1(2): 58-62.	
10	Ferreira, M. A. M., & Andrade, M. 2010. M/G/oo queue busy period tail. <i>Journal of Mathematics and Technology</i> , 1(3): 11-16.	
11	Ferreira, M. A. M., & Andrade, M. 2010. M/M/m/m queue system transient behavior. <i>Journal of Mathematics and Technology</i> , 1(1): 49-65.	

12	Andrade, M. & Ferreira, M. A. M. & Filipe, J. A. 2008. Evidence evaluation in DNA mixture traces. Journal of Mathematics, Statistics and Allied Fields (Scientific Journals International-Published online), 2(2): 1-5.	
13	Filipe, J. A., Ferreira, M. A. M., Coelho, M., Pedro, M. I., & Andrade, M. 2010. Analysing Fisheries management through complexity and chaos theories framework. International Journal of Academic Research- Journal of Mathematics and Technology, 1(2): 5-12.	
14	Abrantes, D. & Pontes, M. L. & Pinheiro, M. F. & Andrade, M. & Ferreira, M. A. M. 2008. Towards a systematic probabilistic evaluation of parentage casework in Forensic Genetics: a modest attempt to define a general standardized approach to simple and complex cases. Forensic Science International: Genetics Supplement Series, 1(1): 635-637.	
15	Andrade, M. & Ferreira, M. A. M. 2009. Criminal and civil identification with DNA databases using Bayesian networks. International Journal of Security-CSC Journals, 3(4): 65-74.	
16	Andrade, M., Ferreira, M. A. M., Abrantes, D., Pontes, M. L., & Pinheiro, M. F. 2010. Object-oriented Bayesian networks in the evaluation of paternities in less usual environments. Journal of Mathematics and Technology, 1(1): 161-164.	
17	Andrade, M., & Ferreira, M. A. M. 2010. Solving civil identification cases with DNA profiles databases using Bayesian networks. Journal of Mathematics and Technology, 1(2): 37-40.	
18	Curto, J. D. & Pinto, J. C. 2007. New multicollinearity indicators in linear regression models. International Statistical Review, 75(1): 114-121.	
19	Curto, J. D. & Pinto, J. C. & 2008. Correction note on new multicollinearity indicators. International Statistical Review, 76(2): 298-299.	
20	Curto, J. D. & Pinto, J. C. 2009. The coefficient of variation asymptotic distribution in case of non-iid random variables. Journal of Applied Statistics, 36(1): 21-32.	
21	Curto, J. D., & Pinto, J. C. 2010. The corrected VIF (CVIF). Journal of Applied Statistics, 37(9): 1360-0532.	0,337
22	Curto, J. D. & Pinto, J. C. & Tavares, G. 2009. Modeling stock markets' volatility using GARCH models with Normal, Student's t and stable Paretian distributions. Statistical Papers, 50(2): 311-321.	0,386
23	Ferreira, M. A. M. & Filipe, J. A. & Coelho, M. 2009. The importance of the enlargement of economic exclusive zones for the fisheries. International Journal of Academic Research, 1(2): 158-161.	
24	Ferreira, M. A. M., & Filipe, J. A. 2010. Economic crisis: using M/G/oo queue systems busy period to solve logistics problems in an organization. China-USA Business Review, 9(9): 59-63.	
25	Laureano, R., Mendes, D., & Ferreira, M. 2010. Efficient synchronization of one-dimensional chaotic quadratic maps by different coupling terms. International Journal of Academic Research, Journal of Mathematics and Technology, 1(1): 5-12.	
26	Curto, J. D. 2007. Modelling heavy tails and asymmetry using ARCH-type models with stable paretian distributions. Nonlinear Dynamics, 51 (1-2): 231-243. Springer.	1,154
27	Fonseca, J. R. S. & Cardoso, M G. M. 2007. Mixture-model cluster analysis using information theoretical criteria. Intelligent Data Analysis, 11(2): 155-173.	

28	Adragão, T. & Herberth, J. & Monier-Faugere, M. & Branscum, A. & Ferreira, A. & Frazão, J. & Curto, J. D. & Malluche, H. 2009. Low Bone Volume: A Risk Factor for Coronary Calcifications in Hemodialysis Patients. <i>Clinical Journal of the American Society of Nephrology</i> , 4(2): 254-257.	5,330
29	Adragão, T. & Pires, A. & Birne, R. & Curto, J. D. & Lucas, C. & Gonçalves, M. & Negrão, A. P. 2009. A plain X-ray vascular calcification score is associated with arterial stiffness and mortality in dialysis patients. <i>Nephrology Dialysis Transplantation</i> , 24(3): 997-1002.	3,504
30	Cardoso, M. G. M. S. & Carvalho, A. & Ponce de Leon, F. 2009. Quality indices for (practical) clustering evaluation. <i>Intelligent Data Analysis</i> , 13(5): 725-740.	1,171
31	Martins, L. F. 2009. Nonparametric unit root tests and dramatic shifts with infinite variance processes. <i>Journal of Applied Statistics</i> , 36: 547-571.	0,448
32	Martins, A. A. & Pinto, I. & Cardoso, M. G. M. S. 2009. Using multidimensional unfolding in plant breeding programs. <i>Biometrical Letters</i> , 46(1): 55-70.	
33	Andrade, M. 2010. A note on foundations of probability. <i>Journal of Mathematics and Technology</i> , 1(1): 96-98.	
34	Ferreira, M. A. M. 2010. A note on Jackson networks sojourn times. <i>Journal of Mathematics and Technology</i> , 1(1): 91-95.	
Average		1.815
Total		14.518

The following graphic illustrates the difference between the overall indicators previously presented (thus with all published articles) and the overall indicators for the current selection (i.e. without articles on mathematics).



The figures and graph clearly show that the exclusion of some publications due to mathematical analysis has an inevitable and very significant impact on the Group's performance.

The Group's average obviously declines when the thirty-four selected articles are excluded from the overall list of published articles due to the rating of the journals in which the removed articles were published.

The "Highest SJR" indicator is also of great interest, as the list aggregating all articles has the highest SJR of 5,330 but this it drops to 2,188 after the removal of articles with mathematical content, indicating that the article best rated article has some correlation with mathematics (Adragão, T. & Herberth, J. & Monier-Faugere, M. & Branscum, A. & Ferreira, A. & Frazão, J. & Curto, J. D. & Malluche, H. 2009. Low Bone Volume: A Risk Factor for Coronary Calcifications in Hemodialysis Patients. *Clinical Journal of the American Society of Nephrology*, 4(2): 254-257).

4. ECONOMICS GROUP

List of all Journals with available “SJR – cites per doc” in which this Group’s researchers have published:

ECONOMICS

	Description:	“SJR – Cites per Doc. (2y)”: It measures the scientific impact of an average article published in the journal, it is computed using the same formula as journal impact factor TM (Thomson Reuters).
2007	World Development	2,142
2007	The European Physical Journal B	1,408
2007	Journal of Common Market Studies	0,952
2007	Managerial and Decision Economics	0,413
2007	Communications in Algebra	0,307
2008	Physica A	1,389
2008	Physica A	1,389
2008	Journal of Socio-Economics	0,967
2008	Computational Economics	0,688
2008	Proceedings of the American Mathematical Society	0,573
2008	Economic Modelling	0,517
2008	International Journal of Social Economics	0,339
2008	Economic Bulletin	0,1
2009	Chaos, Solitons and Fractals	3,543
2009	Energy Economics	2,813
2009	Research Policy	2,829
2009	Technological Forecasting and Social Change	2,046
2009	Journal of Monetary Economics	1,785
2009	Long Range Planning	1,746
2009	Papers in Regional Science	1,424
2009	Int. Journal of Bifurcation and Chaos	0,991
2009	Economic Modelling	0,813
2009	Journal of Economic Studies	0,729
2009	Forum Mathematicum	0,638

2009	Structural Change and Economic Dynamics	0,587
2009	Public Finance Review	0,381
2009	Economics Bulletin	0,178
2009	Economics Bulletin	0,178
2009	Economic Annals	0,111
2010	Ecological Economics	2,899
2010	Journal of Economic Surveys	1,968
2010	European Management Journal	1,744
2010	Regional Studies	1,428
2010	Journal of Evolutionary Economics	1,099
2010	Economic Modelling	0,794
2010	Journal of Economic Studies	0,761
2010	Studies in Nonlinear Dynamics and Econometrics	0,723
2010	Applied Econometrics and Int. Development	0,25
2010	Regional and Sectorial Economic Studies	0,222
2010	Journal of Physics: Conference Series	0,124
2010	Economics Bulletin	0,177
2010	Economics Bulletin	0,177
Average of Published Articles' SJR		1.054
Standard Deviation of Published Articles' SJR		0.878
Total of Published Articles' SJR		44.275
Highest SJR		3.543
Lowest SJR		0.100

4.1 ECONOMICS GROUP

Researchers' averages and "SJR" totals for published articles:

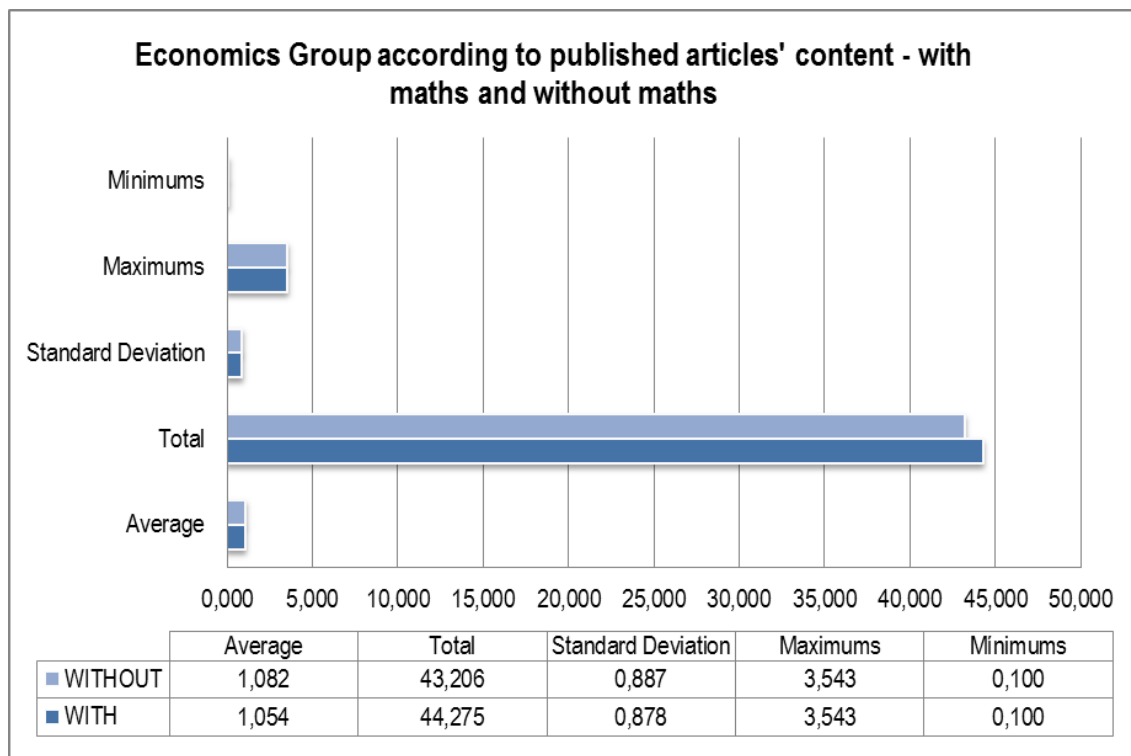
	Average of "SJR" per researcher	Total of "SJR" per researcher	Number of Publications	Number of Publications w/ "SJR"
Alexandra Ferreira Lopes	1,793	5,645	6	5
Diana Elisabeta Mendes	1,212	9,512	12	8
Helena Soares Correia Tavares	0,506	1,519	3	3
Henrique Currais Monteiro	0	0	2	0
João Carvalho Leão	0	0	0	0
João Lopes Costa	0	0	2	0
Maria Catarina Roseta Palma	2,856	5,712	3	2
Maria do Rosário Laureano	0	0	0	0
Mónica Meireles	0	0	0	0
Nádia Nogueira Simões	0	0	0	0
Nuno Pascoal Crespo	0,998	4,990	6	3
Orlando da Costa Gomes	0,878	18,439	30	21
Sandrina Berthault Moreira	0	0	0	0
Sandro Mendonça	2,091	8,365	6	4
Sérgio Manuel Nunes Mendes	0	0	1	1
Vivaldo Pereira Mendes	1,395	4,186	5	3

4.2 Comprehensive interpretation of published articles' content

The previous analysis, it is of crucial importance to measure the weight and relative importance of published articles with mathematical content on the total of published articles. The following table summarizes all articles according to this indicator. This sub-chapter aims to survey the impact has the inclusion or exclusion of these on the average and totals of the Group. The reference methodology used is "SJR – cites per doc".

Nr.	Publications with Mathematical Content	SJR – cites per doc
1	Mendes, D. A. & Mendes, V. M. & Sousa Ramos, J. & Gomes, O. 2009. Computing topological entropy in asymmetric cournot duopoly games with homogeneous players. <i>Advanced Studies in Pure Mathematics</i> , 53(): 169-178.	
2	Isfan, M., Mendes, D. A., & Menezes, R. 2010. Forecasting the Portuguese stockmarket time series by using artificial neural networks. <i>Journal of Physics: Conference Series</i> , 221(1).	0,124
3	Laureano, R., Mendes, D., & Ferreira, M. A. M. 2010. Efficient synchronization of one dimensional chaotic quadratic maps by different coupling terms. <i>Journal of Mathematics and Technology</i> , 1(1): 5-12.	
4	Mendes, S. & Plymen, R. 2007. Base change and K-theory for $GL(n)$. <i>Journal of Noncommutative Geometry</i> , 1 (3): 311-331.	
5	Miró-Roig, R. M. & Soares, H. 2009. Stability of exceptional bundles on complete intersection 3-folds. <i>Forum Math</i> , 21(5): 871-89.	0,638
6	Soares, H. 2007. Steiner bundles on the hyperquadric Q_n , $n \geq 3$. <i>Communications in Algebra</i> , 35(): 4116-4136.	0,307
	Average	0,356
	Total	1,069

The following graph illustrates the difference between the overall indicators previously presented (thus with all published articles) and the overall indicators for the current selection (i.e. without articles on mathematics).



Of the three Groups thoroughly analyzed according to the weight of mathematics on their publications, the Economics Group is the least affected.

It should be noted that a comparison of both averages reveals an increase when selected articles are removed, as only two of the six publications have SJR – and the values are low. The Journal with the highest SJR continues to be ***Chaos, Solitons and Fractals***, in which the researcher Orlando Gomes published the article “Adaptive learning and complex dynamics” in 2009.

5. FINANCE GROUP

List of all Journals with available “SJR – cites per doc” in which this Group’s researchers have published:

FINANCE

	Description:	“SJR – Cites per Doc. (2y)”: It measures the scientific impact of an average article published in the journal, it is computed using the same formula as journal impact factor TM (Thomson Reuters).
2007	Journal of Futures Markets	0,626
2007	International Business Review	1,918
2008	International Journal of Accounting, Auditing and Performance Evaluation	0,078
2008	Journal of Financial Markets	0,727
2008	Computational Statistics and Data Analysis	1,178
2008	Journal of Banking and Finance	1,194
2008	Journal of Empirical Finance	1,263
2009	Economics Bulletin	0,178
2009	European Journal of Finance	0,354
2009	European Journal of Finance	0,354
2009	International Journal of Accounting	0,441
2009	European Financial Management	1,081
2009	Computational Statistics and Data Analysis	1,288
2009	European Economic Review	1,373
2009	International Business Review	1,475
2009	Management Accounting Research	1,632
2009	Journal of Financial and Quantitative Analysis	1,821
2009	Management International Review	1,826
2010	Review of Derivatives Research	0,278

2010	European Journal of Finance	0,549
2010	Annals of Finance	0,646
2010	The Quarterly Review of Economics and Finance	0,507
2010	Gender in Management (An International Review)	0,536
2010	Journal of Accounting and Public Policy	1,033
2010	Journal of Financial and Quantitative Analysis	1,901
Average of Published Articles' SJR		0.970
Standard Deviation of Published Articles' SJR		0.584
Total of Published Articles' SJR		24.257
Highest SJR		1.918
Lowest SJR		0.078

5.1 FINANCE GROUP

Researchers' averages and "SJR" totals for published articles:

	Average of "SJR" per researcher	Total of "SJR" per researcher	Number of Publications	Number of Publications w/ "SJR"
Alberta di Giuli	0,549	0,549	1	1
António Barbosa	0	0	0	0
António Corte-Real	0	0	0	0
Carlos Manuel Coelho Duarte	0	0	0	0
João Pedro Pereira	1,582	3,164	2	2
João Vidal Nunes	0,908	2,725	3	3
José Carlos Gonçalves Dias	0,354	0,354	1	1
José Paulo Esperança	0,536	0,536	1	1
Luís Ferreira Oliveira	0,626	0,626	1	1
Luís Laureano	0	0	0	0
Marek Jochek	0,577	1,153	2	2
Helena Veiga	1,042	5,211	5	5
M. Gulamhussen	1,200	8,403	7	7
Sofia Ramos	0,721	2,162	3	3

6. GENERAL MANAGEMENT GROUP

List of all Journals with available “SJR – cites per doc” in which this Group’s researchers have published:

GENERAL MANAGEMENT		
	Description:	“SJR – Cites per Doc. (2y)”:
		It measures the scientific impact of an average article published in the journal, it is computed using the same formula as journal impact factor TM (Thomson Reuters).
2007	Int. Journal of Human Res. Management	0,877
2007	Public Money and Management	0,872
2007	Thunderbird International Business Review	0,521
2008	Journal of Business Research	1,394
2008	Corporate Social Responsibility and Environmental Management	0,784
2008	Journal of Organizational Change Management	0,616
2008	Service Industries Journal	0,509
2008	Journal of Humanistic Psychology	0,438
2008	Journal of Occupational Health Psychology	2,655
2009	Journal of Occupational Health Psychology	3,158
2009	Journal of Happiness Studies	1,75
2009	Managing Service Quality	1,352
2009	Creativity Research Journal	0,714
2009	Management Research	0,5
2009	Management Research	0,5
2009	Management Research	0,5
2010	Applied Psychology: An International Review	2,631
2010	Industrial Management & Data Systems	2,244
2010	European Management Journal	1,744
2010	Journal of Business Ethics	1,329
2010	Journal of Business Ethics	1,329

2010	Journal of Business Ethics	1,329
2010	Journal of Business Ethics	1,329
2010	Journal of Functional Analysis	1,066
2010	African Journal of Business Management	1,053
2010	Service Industries Journal	0,571
2010	International Journal of Technology Intelligence and Planning	0,289
Average of Published Articles' SJR		1.209
Standard Deviation of Published Articles' SJR		0.750
Total of Published Articles' SJR		32.639
Highest SJR		3.158
Lowest SJR		0.289

6.1 GENERAL MANAGEMENT GROUP

Researchers' averages and "SJR" totals for published articles:

	Average of "SJR" per researcher	Total of "SJR" per researcher	Number of Publications	Number of Publications w/ "SJR"
Ana Lúcia Martins	0,872	0,872	1	1
Alexandra Etelvina Marques Fernandes	0	0	0	0
Álvaro Augusto da Rosa	0	0	1	0
Antônio da Silva Robalo	0	0	0	0
João Carlos Rosmaninho de Menezes	0	0	1	0
João Manuel Vilas-Boas da Silva	0	0	0	0
Jorge Francisco Lengler	0	0	1	0
José Antônio Bonito Filipe	0	0	21	0
Arménio Rego	1,206	26,527	27	22
José Duarte Moleiro Martins	1,649	3,297	2	2
José Luís Crespo de Carvalho	0	0	0	0
José Poças Rascão	0	0	0	0
Maria Isabel Vieira Nicolau	0	0	0	0
Nelson José dos Santos Antônio	1,649	3,297	5	2
Paulo Alexandre Bento Fernandes	0	0	0	0
Pedro Miguel de Almeida Fontes Falcão	0	0	0	0
Vítor Sequeira Roldão	0	0	0	0

7. ORGANIZATIONAL BEHAVIOR and HUMAN RESOURCES GROUP

List of all Journals with available “SJR – cites per doc” in which this Group’s researchers have published:

ORGANIZATIONAL BEHAVIOR AND HUMAN RESOURCES

	Description:	“SJR – Cites per Doc. (2y)”:
	It measures the scientific impact of an average article published in the journal, it is computed using the same formula as journal impact factor TM (Thomson Reuters).	
2007	Journal of Applied Social Psychology	0,799
2007	Journal of European Industrial Training	0,337
2008	Safety Science	1,306
2008	Safety Science	1,306
2008	Safety Science	1,306
2008	Higher Education	1,052
2008	Journal of Cognitive and Behavioral Psychotherapies	0,917
2008	International Journal of Health Care Quality Assurance	0,558
2009	British Journal of Health Psychology	1,654
2009	Spanish Journal of Psychology	0,954
2009	Journal of European Industrial Training	0,625
2010	Personality and Individual Differences	1,957
2010	Learning and Individual Differences	1,700
2010	Social Indicators Research	1,111
2010	International Journal of Health Care Quality Assurance	0,727
2010	Int. Journal of Entrepreneurship and Innovation	0,149
Average of Published Articles' SJR		1.013
Standard Deviation of Published Articles' SJR		0.479
Total of Published Articles' SJR		16.207
Highest SJR		1.934
Lowest SJR		0.149

7.1 ORGANIZATIONAL BEHAVIOR and HUMAN RESOURCES GROUP

Researchers' averages and "SJR" totals for published articles:

	Average of "SJR" per researcher	Total of "SJR" per researcher	Number of Publications	Number of Publications w/ "SJR"
Ana Passos	0	0	0	0
Aristides Ferreira	1,099	4,396	7	4
Filomena Almeida	0	0	0	0
Francisco Nunes	0	0	0	0
Henrique Duarte	0	0	0	0
Jorge Correia Jesuino	0	0	2	0
Luís Martinez	0	0	0	0
Luís Martins	0	0	0	0
Luís Reto	0	0	0	0
Qin Zhou	0	0	0	0
António Caetano	0,555	2,221	8	4
Eduardo Simões	0	0	0	0
José Neves	0,643	1,285	5	2
Nelson Ramalho	1,934	1,934	1	1
Sara Ramos	0	0	3	0
Sílvia Silva	1,393	5,572	5	4
Susana Tavares	0,799	0,799	1	1
Virgínia Trigo	0	0	4	0

8. MARKETING GROUP

List of all Journals with available “SJR – cites per doc” in which this Group’s researchers have published:

MARKETING		
	Description:	“SJR – Cites per Doc. (2y)”: It measures the scientific impact of an average article published in the journal, it is computed using the same formula as journal impact factor TM (Thomson Reuters).
2007	Journal of the Academy of Marketing Science	2,124
2007	International Journal of Electronic Commerce	1,744
2007	Marketing Intelligence and Planning	0,8
2007	Int. Journal of Public Sector Management	0,613
2008	Industrial Marketing Management	0,200
2008	European Journal of Marketing	1,132
2008	Journal of Product and Brand Management	0,644
2008	Journal of Euromarketing	0,108
2009	Review of Marketing Science	1,000
Average of Published Articles’ SJR		1.130
Standard Deviation of Published Articles’ SJR		0.688
Total of Published Articles’ SJR		10.172
Highest SJR		2.124
Lowest SJR		0.108

8.1 MARKETING GROUP

Researchers' averages and "SJR" totals for published articles:

	Average of "SJR" per researcher	Total of "SJR" per researcher	Number of Publications	Number of Publications w/ "SJR"
Bárbara Leão	0	0	0	0
Carmen Lages	0,200	0,200	1	1
Cristina Cardigo	0	0	0	0
Hélia Pereira	0	0	0	0
Jacqueline Canuto	0	0	0	0
Pedro Dionísio	0,454	0,908	3	2
Leonor Vacas de Carvalho	0	0	0	0
Maria da Conceição dos Santos	0	0	1	0
Mônica Borges	0	0	0	0
Paulo Rita	0	0	4	0
Ralitza Nikolaeva	1,623	4,868	5	3
Reinaldo Aníbal Proença	0	0	0	0
Rui Vinhas da Silva	0,799	2,396	6	3
Susana Marques da Cunha	0	0	0	0

IV

Comparative and Strategic Analysis of Business Research Units'

Comparative and Strategic Analysis of Business Research Units'

Scientific Production

This report strives to evaluate the competitive positioning of the Business Research Center of the ISCTE-UIIL within the national context from 2007 to 2010. To that end, four top research units were selected on the basis of the acknowledgement of the the scientific community and will be used for comparative purposes. These are:

- NIPE (Center for Advanced Studies in Management and Economics of the Universidade de Évora);
- CEFAGE (Economic Policies Research Unit of the Universidade do Minho);
- INOVA (Research Unit of the School of Economics and Management of the Universidade Nova de Lisboa);
- UNICEE (Research Unit of the School of Economics of the Universidade Católica de Lisboa).

The methodology used is both simple and transparent, as it simply surveys the scientific production of the research units according to their publications' SJR – cites per doc (2 years). This particular indicator provides an impartial, meticulous and thorough measure of the impact of an average article published in the journal.

It is computed using the same formula as journal impact factor TM (Thomson Reuters), an exceedingly prestigious and academically recognized indicator reflecting the average number of citations of articles published in science and social science journals, and therefore used as a proxy for the relative importance of a certain journal within its field.

For an objective and easy-to-read report, the selected research units are subdivided into pairs and compared to BRu in these more limited groups – 1. CEFAGE and NIPE; 2. INOVA and UNICEE.

Our rationale is based on similarity. Part I examines CEFAGE and NIPE; like BRu-UIIL, these two units have been set up recently. Part II looks at INOVA and UNICEE-UCP, two longstanding and very prestigious units which are recognized by both the scientific community and society in general due to their performance as well as the tradition and high-status of the institutions that house them.

Part I

This first sub-chapter assesses **BRu-UIL** (ISCTE, Lisbon) scientific production against:

- **CEFAGE** (Univ. de Évora) – 62 researchers, of whom 42 hold a PhD;
- **NIPE** (Univ. do Minho) – 26 researchers, of whom 25 hold a PhD.

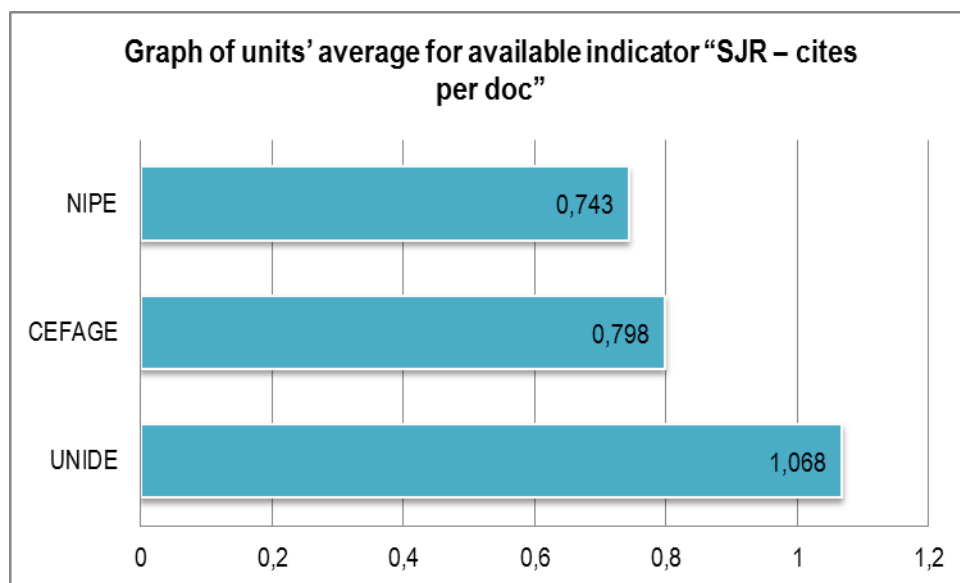


Fig. 1 – Graph of units' average for available indicator "SJR – cites per doc".

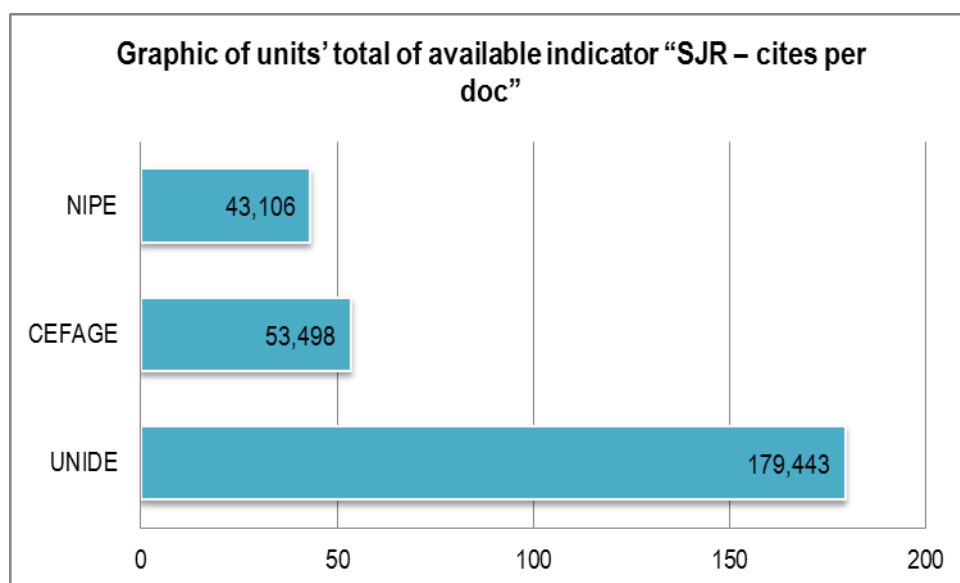


Fig. 2 – Graphic of units' total of available indicator "SJR – cites per doc".

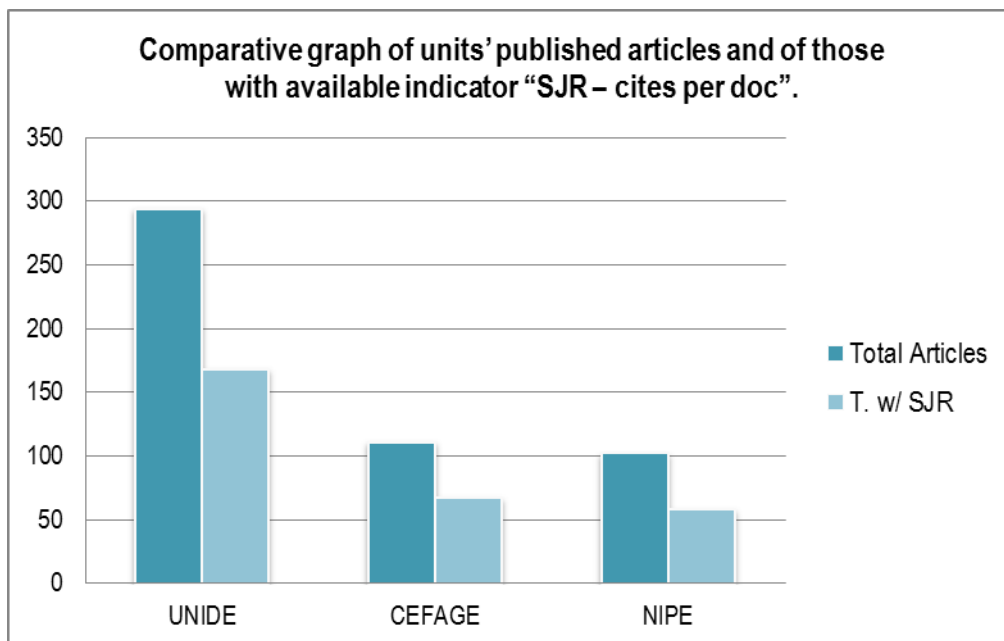


Fig. 3 – Comparative graph of units' published articles and of those with available indicator "SJR – cites per doc".

The three graphs above indicate BRu-UIL's position in relation to the other centers as its researchers publish more and in well rated journals. The graph below uses the same rationale for the evolution over the reported period.

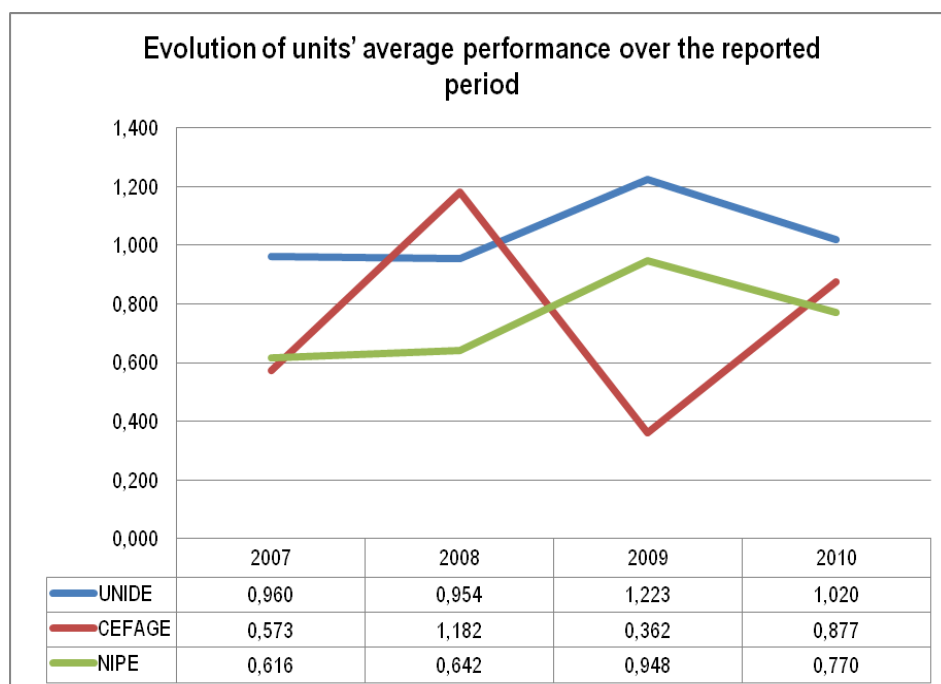


Fig. 4 – Evolution of units' average performance over the reported period.

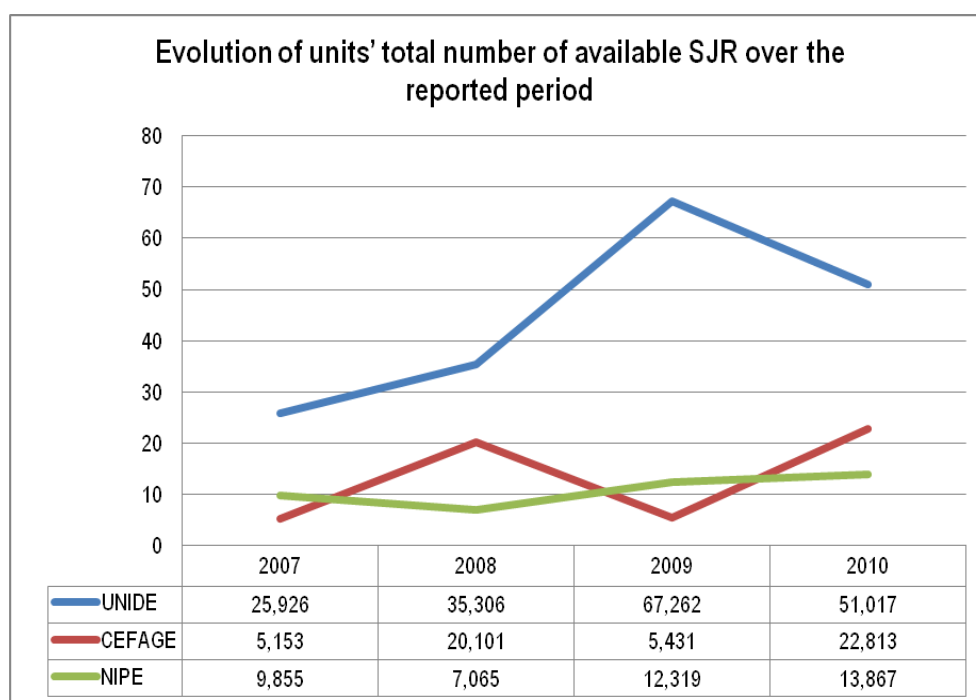


Fig. 5 – Evolution of units' sum of available SJR over the reported period.

The evolution of BRu maintains this trend. It has a steady average over the years, reaching a peak in 2009. On the other hand, CEFAGE fluctuates the most and registers an increase in 2010.

Part II

This first sub-chapter assesses **BRu-UIL** (ISCTE, Lisbon) scientific production against:

- **INOVA** (Univ. Nova de Lisboa) – no data on number of researchers;
- **UNICEE** (Univ. Católica de Lisboa) – 41 researchers, of whom 38 hold a Ph.D.

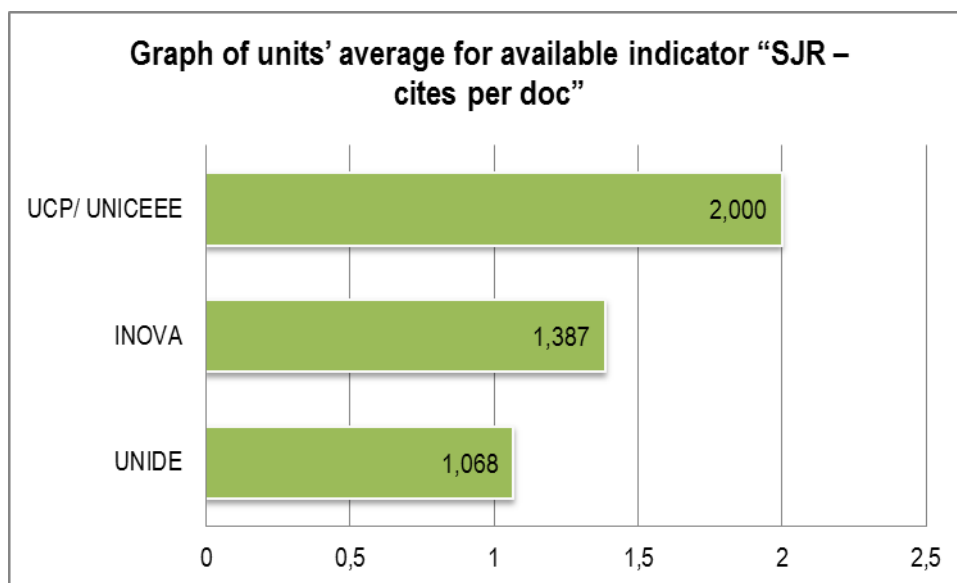


Fig. 6 – Graph of units' average for available indicator "SJR – cites per doc".

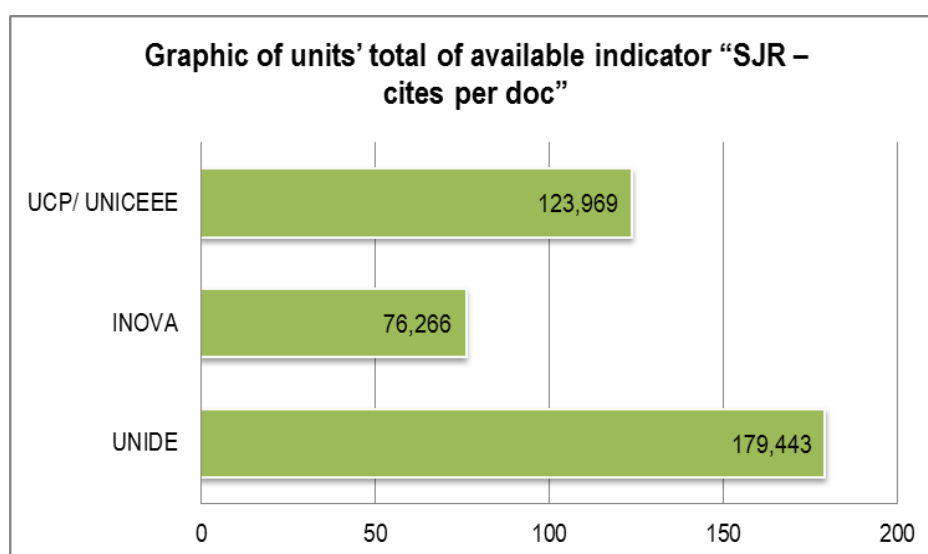


Fig. 7 – Graph of units' total number of "SJR – cites per doc".

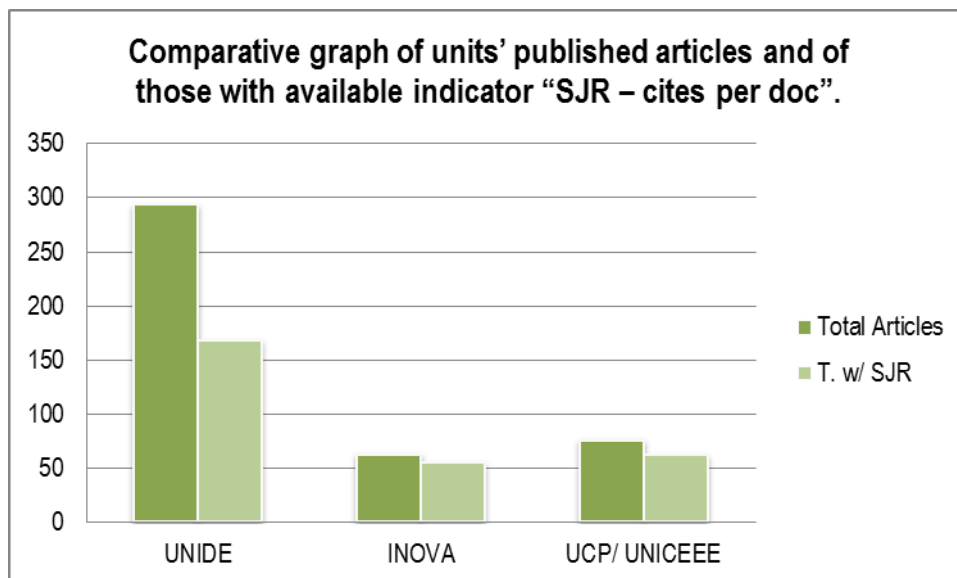


Fig. 8 – Comparative graph of units' published articles and those with available indicator "SJR – cites per doc".

Part II shows a very different setting, as BRu-UIL falls clearly behind the other two research units. It may publish more, but its researchers do so in journals with humbler ratings. Graph 8 reveals that although BRu publishes 294 articles, only 169 have available SJR, while the other units publish less, but do so in journals with SJR.

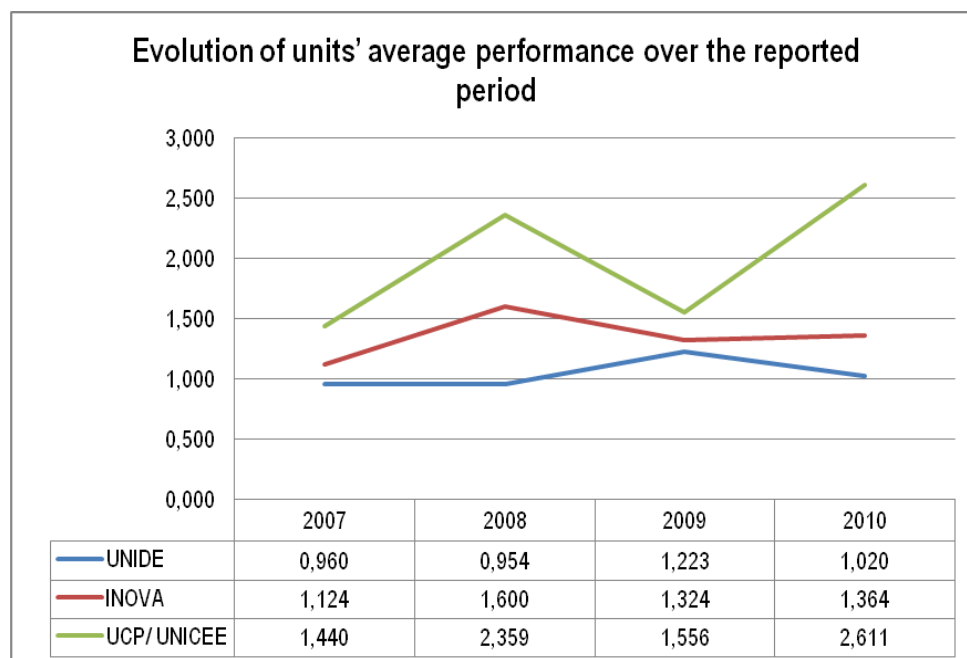


Fig. 9 – Evolution of units' average performance over the reported period.

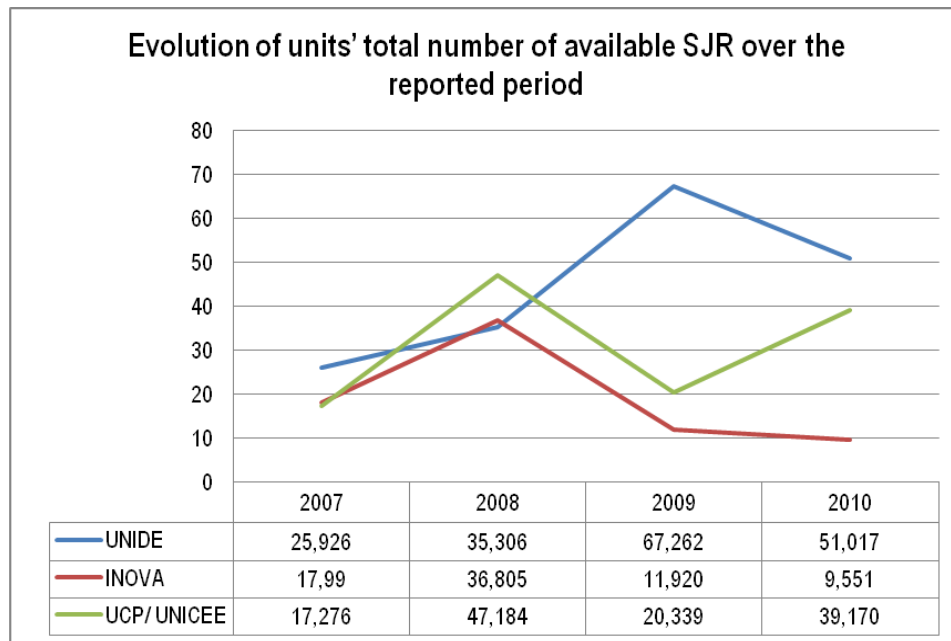


Fig. 10 – Evolution of units' total number of available SJR over the reported period.

The above graph shows the evolution for all three research units. Whereas BRu has a very steady evolution over the years, UNICEE fluctuates considerably but always maintains very good average figures. Lastly, despite a consistent average INOVA has slowed since 2008.

Part III

It is also interesting to analyze the number of eligible members each unit had in 2007 according to the F.C.T. Evaluation Report of that year and the latest (2010) numbers according to their WebPages. The ratios of publications are also presented in the graphs below (aggregating all publications from 2007 to 2010) per eligible member (2010 figures).

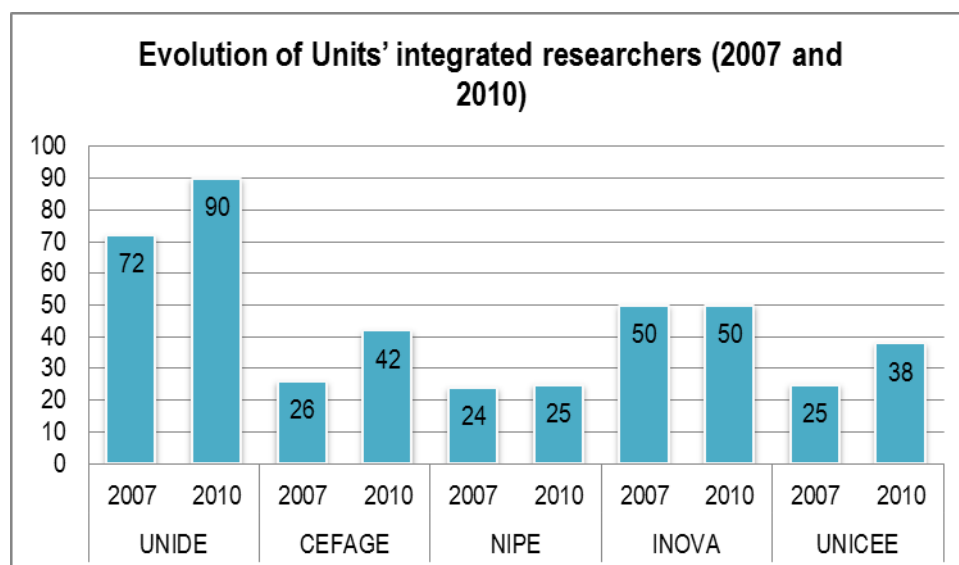


Fig. 11 – Evolution of Units' integrated researchers

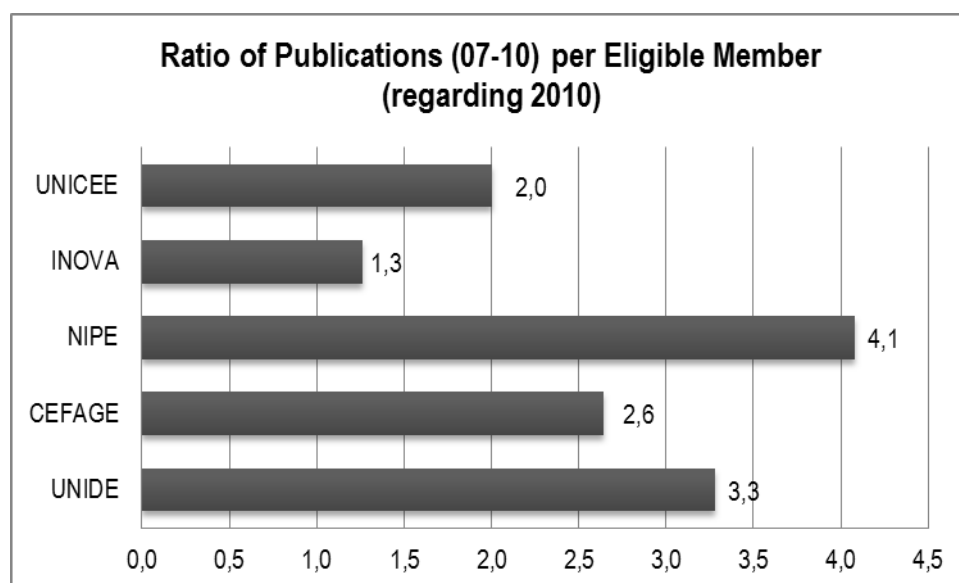


Fig. 12 – Units' ratio of publications (articles published in 2007, 2008, 2009 and 2010) per eligible members (only eligible members in 2010 considered).

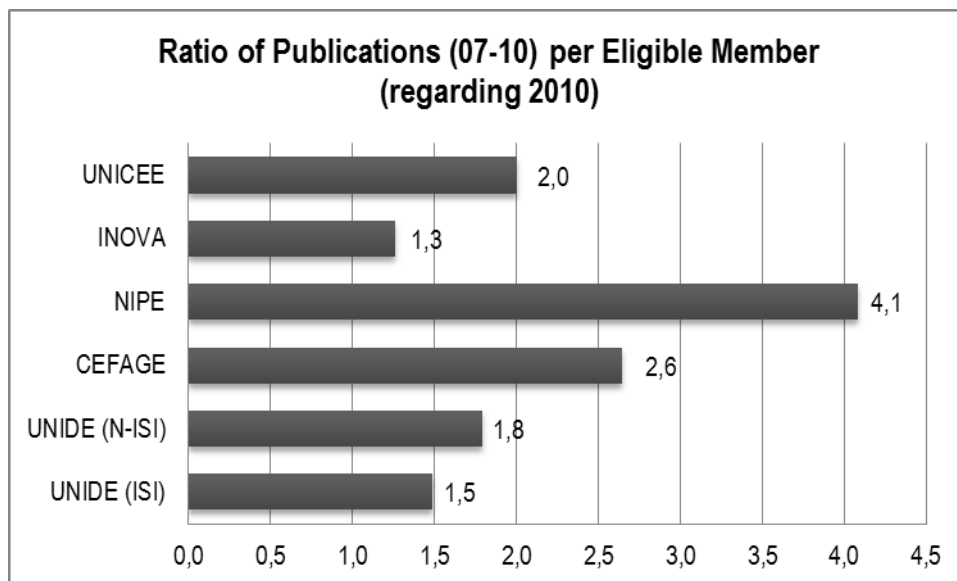


Fig. 13 – Units' ratio of publications (articles published in 2007, 2008, 2009 and 2010) per eligible member (only eligible members in 2010 considered) – PUBLICATIONS FOR **BRu-UNIDE** SUBDIVIDED IN **ISI** AND **N-ISI**

V

Conclusion

Conclusion

The present Four-Year Report assembles information on the activities and scientific production of BRu-UNIDE.

The unit implemented several significant organizational changes with the appointment of an International Scientific Advisory Board, Audit Committee and Scientific Committee.

Scientific orientation towards publication in very high impact ISI-indexed journals was clearly assumed and tighter admission and tenure rules approved in 2010 to be applied in 2011.

The unit made significant investment in both the physical and information infrastructure. New office space enabled the relocation of staff and approximately 20 F.C.T assistant researchers closer to other research units classified as "Excellent".

The Four-Year Report also reveals a positive evolution in published articles in peer review journals and in the impact of the Groups' scientific production measured through the "SJR – cites per doc (2 years)" methodology. Records show an increase in the quality and quantity of research output; publications have risen steadily over the last four years, most notably in the last year of reference. Mention should also be made of the active involvement in both national and international research projects, of which "QUASER" a joint initiative of the unit and Kings and Imperial Colleges in London is emblematic.

The comparative analysis shows that the average scientific output and impact is on average similar to with other units classified as "Excellent" by F.C.T.

The multidisciplinary nature of the unit is assumed clearly and the diversity is considered crucial for both research and teaching. Research output and projects cut across several disciplines and leverage our capabilities. This is reflected in the eight Ph.D. Programs that share a common framework from 2011; specifically Programs share on average 40-60% of the curricular units.

Several positive changes were implemented from 27 May 2011 but the work is by no means complete. The next year's Report will identify the scientific output for the year 2011 but also new developments in the activities of the unit.