

FCT Relatório Científico 2008 Print: 10-05-2011 15:25:43 [Centro de Estudos em Economia Aplicada do Atlântico (CEEApIA)]

General Information

Name of Research Unit:	(EGE-Acores-685) Centro de Estudos em Economia Aplicada do Atlântico (CEEApIA)
Coordinator:	Francisco José Ferreira Silva
Main Scientific Domain:	Economia e Gestão
Other Subdomains:	n/a

Host Institutions

Leading Host Institution:	Universidade dos Açores
Other Institutions Involved:	Universidade da Madeira

Objectives & Achievements

Unit Description

CEEApIA aggregates a total of 33 researchers both at the Universities of the Azores and Madeira. In the University of the Azores there are 24 research members and 9 associated researchers. In Madeira there are 6 research members and 3 associated researchers.

The organization and management of CEEApIA follow, in their essence, from CEEApIA's distinct geographical distribution, v separate host institutions, on the one hand, and from the research environment it seeks to promote, on the other.

With respect to its geographical distribution, we note that CEEApIA has two host institutions, namely, the University of the Azores (where its administration is based) and the University of Madeira. CEEApIA's management organization is composed of: 1. Scientific Council; 2. Directing Council; 3. Director; 4. Steering Committee.

The Scientific Council is constituted by all research members and is organized in two sections, Azores and Madeira. The Scientific Council, in accordance with CEEApIA's regulations, elects the scientific coordinators and evaluates annual plans and reports.

The Directing Council carries out executive management and is composed by CEEApIA's director (Pedro Telhado Pereira) and the directors of each section (Santiago Budria in Madeira and Francisco Silva in the Azores). This ensures timely and coordinated executive management of the research activities in both institutions. There is a full-time staff assistant who alleviates researchers from non-research duties. Finally, the Steering Committee is composed of well-known international scholars who visit CEEApIA and provide advice on how to foster a better research environment within CEEApIA.

We note that nowadays CEEApIA has in place a transparent scheme that allocates funds according to individual scientific output. This scheme is updated whenever a change in the objectives of CEEApIA justifies new mechanisms to redirect researchers' motivations.

While researchers are actively engaged in the definition of CEEApIA's objectives, as they participate in the Scientific Council, they know how funds are allocated and, concomitantly, what is expected from them.

General Objectives

CEEApIA preserves as its main objective to create a stimulating environment in order to enhance the quality of the research and to establish CEEApIA as one of the best research centres in Portugal and a visible research center in Europe. Such a general objective is achieved through the fact that the researchers affiliated with CEEApIA hold top-notch PhD training from some of the best American and European universities. A major challenge lies within CEEApIA's management to create a stimulating research environment, that provides the correct stimulus for researchers to publish in highly visible international peer reviewed field and general journals.

While the center moves towards a mature stage its purposes are now centred in the quality of the scientific output. We expect that researchers should experience in the near future the incentives to take on the risks associated with publishing in better journals, top general journals. At the end of the year 2008 CEEApIA accumulates more than 70 papers in international journals with researchers who were very active, mostly publishing, presenting articles at international conferences and organizing scientific events.

It is now the moment to focus on the quality of the scientific output. For that end, in early 2007 we implemented a scheme that allocates funds according to the quality of individual scientific outputs. Hence, CEEApIA's researchers have incentives to publish in high quality peer reviewed journals. The incentive scheme is managed in a dynamic way and currently it is linked to the ABS – Association to Advance Collegiate Schools of Business International Journal Quality Guide (available at <http://www.the-abs.org.uk/?id=257>). This guide has two main advantages: it is actualized every year and covers a wide range of scientific areas namely, accounting, business history, business law, entrepreneurship, general management, international business, innovation management, information management, marketing, organization studies, research, public sector management, business strategy and tourism and hospitality management. CEEApIA's researchers are now publishing in top journals of their own area of expertise.

We find most important to secure and widen our sources of funds in order to keep the current momentum going and hire researchers who have been already achieved to some extent. Hiring should promote discrete quality improvements in fields such as Labour

Activities

also published books (mostly in-house publishing and educational books). By the same token, CEEApIA's researchers have pres number of conferences on a regular basis.

CEEApIA's research members also provided the expected and much appreciated services to science and to their profession: several top field journals and some well known general journals. Editing activities are less pervasive among CEEApIA's memb large number of young PhD's that we find in CEEApIA. CEEApIA's researchers also took an active role in organizing scien workshops to medium sized conferences (for instance, the First Annual Meeting of the Portuguese Economic Journal) and to . (www.uac.pt/~ceeapla/seminarios.php). In the year 2008 the center offered 5 seminars with professors from the Universidade Carnegie Mellon University, the Institute Superior do Comércio - ISC Paris or the Charles University and Academy of Scienc offered more than 35 seminars open not only to its members but also to the general public in the academia.

While the core of CEEApIA's activities obviously lies within the scientific realm, CEEApIA actively promoted interactions with th through the organization of events (for instance, CEEApIA's events were attended by private and public institutions' representa members participated in some research projects sponsored by public entities. Among these we highlight the construction Azorean Economy, currently underway (in the near future a similar model will be built for the Madeira Economy). This resear sponsored by the Azorean Government, the US Federal Gov. and FLAD. CEEApIA will host on-line the CGE models to be used b policy evaluation purposes. Another ongoing project is Platform for Electricity Demand Forecasting seeking the develop Electricity Demand Forecasting in the Autonomous Region of Madeira in global context. A different project was sponsored by th was carried out by a team of researchers from the Azores, Madeira and the University of the Canary Islands (Spain) and assesse for airlines services attributes using stated preferences discrete choice experiments in the main gateways in these archipelagos.

Finally, CEEApIA has collaborated with several department of its host institutions, by providing research infrastructure and me Master and PhD students. CEEApIA's researchers are supervising more than 10 PhD students and a large number of master: undoubtedly to the future of scientific research in Portugal.

Funding

	2008	2009
LA FCT	0,00	0,00
Units FCT	51.300,00	49.444,43
Projects FCT	0,00	0,00
Other (National)	28.560,00	53.899,04
Other (International)	0,00	0,00
National Industry	0,00	0,00
International Industry	0,00	0,00
	79.860,00	103.343,47

General Indicators

	2006	2007	2008	2009	2010
No. of Researchers Proposed	0,00	0,00	0,00	0,00	0,00
No. of Researchers Hired (LA)	0,00	0,00	0,00	0,00	0,00
Balance	0,00	0,00	0,00	0,00	0,00
No. of Researchers Hired (Ciência Programme)	0,00	0,00	0,00	0,00	0,00
No. of Researchers integrated with PhD	18,00	20,00	21,00	24,00	25,00
Training Masters (Master thesis completed)	0,00	4,00	0,00	17,00	0,00
Training PhDs (PhD thesis completed)	2,00	1,00	1,00	1,00	1,00

Researchers Hired

Name	Start Date	End Date	Other I
No researchers found...			

Technical Personnel Hired

Name	Start Date	End Date	Other I
No technical personnel found...			

Additional Comments**Research Groups**

Reference	Title / Principal Investigator
RG-Madeira-685-1184	<u>Labour Economics</u> (Pedro Telhado Pereira)
RG-Acores-685-2121	<u>International Business</u> (João Pedro de Almeida Couto)
RG-Acores-685-2122	<u>Statistics and Operations Management</u> (Francisco José Ferreira Silva)
RG-LVT-685-3193	<u>Regional Economic Modeling and Public Policy Analysis</u> (Mário José Amaral Fortuna)
RG-LVT-685-3193	<u>Regional Economic Modeling and Public Policy Analysis</u> (Mário José Amaral Fortuna)

FCT Relatório Científico 2008 Print: 10-05-2011 15:27:35 [Centro de Estudos em Economia Aplicada do Atlântico (CEEApIA)]

Group Description

Title of Research Group:	(RG-Madeira-685-1184) Labour Economics
Principal Investigator:	Pedro Telhado Pereira
Main Scientific Domain:	Economia e Gestão
Group Host Institution:	Universidade da Madeira

Funding, source, dates

Funding, source, dates

The Labour Economics group obtained funding from the Department of Management and Economics in the University of the own funds. These funds have been used to attend several well-known international conferences in the field, such as the annual European Association of Labour Economists (EALE), European Society of Population Economics (ESPE).

DRCT funded a post-doctoral research fellow for 3-years, starting late 2006, namely Dario Sciulli, a PhD in Economics from U. To

FCT financed specific projects such as POCTI/ECO/43307/2001 and POCTI/ECO/37668/2001.

The team also participated in a 3-year (2002-2005) project financed by the European Commission and entitled "Education and project involved nine European research institutions and was endowed with more than one million Euros, 80000 of which Portuguese team. This amount was used to attend international conferences and to hire two predoctoral researchers (Santia Andini), who completed their PhD over this period.

Objectives & Achievements

Objectives

The impressive educational expansion experienced by most developed countries over the last decades has called the attention of researchers in the field on the potential labour market consequences of such an expansion.

The leading objective of the Labour Economics Group has been to improve the existing knowledge on the relation between the one side, and different labour market outcomes such as wage levels, wage inequality and job satisfaction, on the other side.

To achieve this objective, several milestones were identified. The first milestone was to use international comparable and up-to-date data to assess the impact that different levels and types of education and training have on wage levels and wage dispersion in Portugal and how this impact has evolved over the last decades.

Given the observed association between education and wage dispersion, the second milestone was to obtain, from the individual level, insights on the risky aspects of the educational investment. Specifically, it was investigated the education risk-return trade-off, the extent of the wage risk associated with schooling, and the impact of part-time education on the observed risk-return trade-off.

The ongoing educational expansion has been parallel to an increasing proportion of workers in jobs for which they are over-qualified. This has raised important efficiency concerns among policy makers, as it suggests that a significant fraction of workers are underperforming. A third milestone was, therefore, to provide in-depth evidence on the effects that the overeducation phenomenon has on wage levels and job-satisfaction.

The fourth milestone was to identify causes and provide explanations for the observed patterns. The Labour Economics Group tested how relevant labour market aspects such as unobserved ability, overeducation, collective bargaining and different labour market conditions shape the wage distribution and determine the amount of wage risk associated with schooling.

Main Achievements

Over the evaluation period, the Labour Economics Group has published more than 25 papers in peer-review journals and working papers, most of them being under consideration for publication in highly visible journals.

The group has regularly attended seminars in well-known institutions and participated in the best international conferences in the field (ESEM and ESPE), and has established important scientific collaborations with experts from highly recognized institutions (Timber

Objectives & Achievements

University of London). This has resulted in several joint works that have been already published and several lines of research are ongoing.

In terms of scientific production, the first body of research has provided further and updated evidence on the impact that education has on wage levels and wage dispersion, differentiating between education levels and periods (Pereira and Vieira, *Applied Economics* 2004, *Applied Economics* 2004), training types and population groups (Budria and Pereira, *Applied Economics* private and the public sector (Budria, submitted to *Applied Economics* 2007), and the socio-economic sources of wage and income inequality (Jiménez, *Spanish Economic Review* 2007). An outstanding feature of this research is that most of it has been conducted using international comparable data, thus producing a block of sound empirical evidence.

The Labour Economics Group has also made significant contributions to the literature on education and risk (Vieira, *Hart Empirical Economics* 2003; Andini, forthcoming in *Applied Economics Letters* 2007) and overeducation (Vieira, *Labour Economics* Moro Egido, *Economics of Education Review* forthcoming 2007).

One of the most recent advances of the our research group has been to investigate several hypotheses that may account for the wage inequality observed in the data, including overeducation, collective bargaining (Pereira and Vieira, *Journal of Applied Economics*, 2002), unobserved heterogeneity and measurement errors (Andini, forthcoming in *Applied Economics Letters* 2007) and institutions (Menezes, Sciulli and Vieira, 2007, submitted to *Economics Letters*).

Group Productivity

Publications in peer review Journals

Santiago Budría e Ana Moro-Egido, "Education, Educational Mismatch and Wage Inequality: Evidence for Spain", *Economics of Education Review*, 27 (3), pp. 332-341, 2008.

António Menezes e José Cabral Vieira, "Willingness to Pay for Airline Services Attributes: Micro-econometric Evidence from a Stated Choice Model", *European Transport*, Issue nº 39, pp. 1-13, 2008.

António Menezes e José Cabral Vieira, "Training, Job Upgrading, Job Creation and Job Destruction", *Atlantic Economic Journal*, 36 (3), pp. 373-381, 2008.

Carlos Pestana Barros, Antonio Menezes, Nicolas Peypoch, Bernardin Solonandrasana e José Cabral Vieira, "An Analysis of Productivity Growth Using the Luenberger Productivity Indicator", *Health Care Management Science*, 11 (4), pp. 373-381, 2008.

António Menezes, Ana Moniz e José Cabral Vieira, "The determinants of length of stay of tourists in the Azores", *Tourism Economics*, 18 (1), 2008.

Corrado Andini, "Portugal and the Competitive Disinflation: Let the Data Speak", *Economics Bulletin*, Nº 6, 1-11, 2008.

Corrado Andini, "Within-Groups Wage Inequality and Schooling: Further Evidence for Portugal", *Applied Economics*, Issue iFirst, 2008.

Corrado Andini, "The Total Impact of Schooling on Within-Groups Wage Inequality in Portugal", *Applied Economics Letters*, Nº 15 (10), pp. 1007-1010, 2008.

Pedro Telhado Pereira e Paulo Madeira, "Who values what in a tourism destination? The case of Madeira Island", *Tourism Economics*, 16 (2), pp. 161-174, 2008.

Santiago Budría, "Schooling and the Distribution of Wages in the European Private and Public Sector", *Applied Economics*, 40 (1), pp. 1-14, 2008.

Santiago Budría, "An Exploration of Asset Returns in a Production Economy with Relative Habits", *Atlantic Economic Journal*, 36 (3), pp. 373-381, 2008.

Corrado Andini, "On the Return-Risk Link in Education", *Applied Economics Letters*, 16 (3), pp. 307-314, 2008.

Corrado Andini, "A Dynamic Mincer Equation with an Application to Portuguese Data", *Applied Economics*, Issue iFirst, pp. 1-8, 2008.

Other publications International

Santiago Budria e Pedro Telhado Pereira, "Education and Wage Dispersion: New Evidence for Europe", In *Education and Income Inequality* (Forthcoming), P. Dolton, R. Asplund and E. Barth Ed., 2008.

Corrado Andini, "Structural Reforms and Labour Productivity Growth: Evidence from Portugal", In *Perspectives on Work*, O. Neu C. Sedmak Ed., LIT-Verlag, 2008.

António Gomes de Menezes, José Cabral Vieira e Ana Isabel Moniz, "Determinants of Length of Stay a Parametric Survival Analysis", In *Modern Tourism Research* (Forthcoming), Springer Ed., LIT-Verlag, 2008.

Pedro Telhado Pereira, António Almeida e António Gomes de Menezes, "Willingness to Pay for Airline Services: A Stated Choice Model", In *Advances in Modern Tourism Research* (Forthcoming), Springer Ed., LIT-Verlag, 2008.

Corrado Andini e Pedro Telhado Pereira, "Full-time Schooling, Part-time Schooling, and Wages: Returns and Risks in Portugal", In *Proceedings of the Conference of the Italian Association of Labour Economists*, Vol. CD-ROM, Setembro de 2008.

Group Productivity

Corrado Andini e Pedro Telhado Pereira, "Full-time Schooling, Part-time Schooling, and Wages: Returns and Risks in Portugal", Conference of the European Association of Labour Economists, Vol. CD-ROM, Setembro de 2008.

Corrado Andini, "Financial Development and Long-Run Growth: Is the Cross-Sectional Evidence Robust?", Proceedings of 2nd Portuguese Economic Journal, Vol. CD-ROM, Julho de 2008.

Corrado Andini, "Financial Development and Long-Run Growth: Is the Cross-Sectional Evidence Robust?", Proceedings of 1 Meeting, Vol. CD-ROM, Junho de 2008.

Other publications National

Ricardo Cabral, "Monopoly Behavior with Learning Effects and Capacity Constraints", CEEApIA Working Paper nº 06/2008, Maio

Corrado Andini e Ricardo Cabral, "Evaluating a Mobile Telecommunications Merger in Portugal", CEEApIA Working Paper nº 03/

Ricardo Cabral, "A Test of Collusive Behavior based on Incentives", CEEApIA Working Paper nº 01/2008, Janeiro de 2008.

Master and Ph.D. thesis completed

José Vieira, orientador das provas de Mestrado em Gestão Pública (Universidade dos Açores), da licenciada Patrícia Pica intituladas "Aproveitamento escolar e abandono do sistema educativo: o caso dos alunos do programa PERE", (concluído).

José António Cabral Vieira, orientadores das provas de Mestrado em Gestão/MBA (Universidade dos Açores), da licenciada Ana intituladas "Cessaçao de prestaçao do rendimento mínimo garantido por motivo de superaçao de carência ou integraçao no me análise empírica para a Região Autónoma dos Açores", (Concluído).

Internationalization

Corrado Andini e Pedro Telhado Pereira, "Full-time Schooling, Part-time Schooling, and Wages: Returns and Risks in Portugal", Setembro de 2008, Amesterdão, Holanda.

Corrado Andini, "Financial Development and Long-Run Growth: Is the Cross-Sectional Evidence Robust?", XI Applied Economic de 2008, Salamanca, Espanha.

Corrado Andini, "Financial Development and Long-Run Growth: Is the Cross-Sectional Evidence Robust?", 2nd Annual Meeting Economic Journal, 4-5 de Julho de 2008, Évora, Portugal.

FCT Relatório Científico 2008 Print: 10-05-2011 15:27:56 [Centro de Estudos em Economia Aplicada do Atlântico (CEEApIA)]

Group Description

Title of Research Group:	(RG-Acores-685-2121) International Business
Principal Investigator:	João Pedro de Almeida Couto
Main Scientific Domain:	Economia e Gestão
Group Host Institution:	Universidade dos Açores

Funding, source, dates

Funding, source, dates

In the recent past, funding has been obtained from CEEApIA own funds, from Direcção Regional para a Ciência e a Tecnologia (the Azorean Government sponsored counterpart to FCT), and from the Department of Economics and Management from the University of the Azores. Most funds have been allocated to travel to present articles at international conferences, as documented elsewhere in this report.

As described in "Future Research", funding is secured for the coming years since CEEApIA has in place a scheme that allocates funds according to individual scientific outputs. In addition, CEEApIA's funds, also described at length elsewhere in the report, are sufficient to meet our most pressing needs, namely, to be able to present our articles at international conferences.

Objectives & Achievements

Objectives

This research group primary objective is to study the international business environment and the activities of firms in a global context. Within this purpose the work that has been developed involves three major areas of research: (1) multinationals functions and management; (2) international marketing; and (3) innovations and technological development and their impact on international and national competitiveness. These objectives are connected with the principal investigator main area of study and academic training are also connected with teaching activities within the international business (IB) field, namely the internationalization process, multinationals functions and management, and especially foreign subsidiaries management. The research breaches to the area of international marketing with particular emphasis on the internet marketing due to the PhD developed by one of the researchers. The internet and information communications (ICT's) have taken a relevant role due to the importance of these aspects for firms in general, and multinationals are no exception, and due to the growing importance of technologies to national competitiveness, as a firm's fundamental environmental element in the international context. Again, some of these topics are covered the research developed by one of the team researchers currently writing his PhD thesis. One main perspective in developing these research lines was to explore the potential of collaborations with researchers from other research groups and institutions. That was the case of collaborations with Prof. José Vieira, Francisco Silva, Mário Fortuna who belong to other research groups from CEEApIA and Prof. Vítor Gonçalves from the Technical University of Lisbon, Maria Natário and Ascensão Braga from the Guarda Polytechnic Institute. The research group finds this research area intellectually stimulating and conducive to publications in highly visible field and general journals due to the growing interest in such literature and the importance of the underlying issues. We note that the research has undertaken a number of business surveys in order to obtain data, much appreciated for its uniqueness. To pursue such line of research is an objective of the research group, with the challenge to publish consistently in highly visible journals.

Main Achievements

The main achievements during the evaluation period can be identified with the establishment of the group, the presentation of papers in international conferences and the publication of articles in international academic journals with peer review. Since this

Objectives & Achievements

recently established research group, very small and with few, and young PhD members, the achievements obtained during the period are connected with the development of the group, the implementation of collaborative work bases with researchers from groups and the accumulation of the competences and experiences necessary to develop the group research activities. This objective has been achieved and two Master thesis and one PhD thesis were developed. The presentation in international conferences was an aim to gain experience and knowledge, skills in research activities and to establish contacts with other researchers. This objective resulted in the presentation of 28 papers in international conferences. The third major achievement regards publications that represent the fundamental indicator for the research group activities. An average of three papers a year, for the period of 2003 to 2006, in a total of 12 papers published that are directly related to this research group. Other three papers are accepted for publication and six additional were submitted to publication. Therefore the total production is 21 papers either published, forthcoming or submitted to peer reviewed journals.

Group Productivity

Publications in peer review Journals

Maria Tiago, João Couto, Flávio Tiago e José Vieira, "Internet Marketing adoption: factors affecting website sophistication", *Customer Relationship Management*, 1 (3), pp. 287-306, April 2008.

Maria Tiago, João Couto, Flávio Tiago e José Vieira, "The propensity and intensity of export activities of companies operating in Portugal", *Applied Business Review*, 24(4), pp. 83-97, 2008.

Maria Tiago, "Internet-Driven Customer Centric: An Exploratory Analysis", *The Business Review*, 11 (2), pp.82, 2008.

Maria Tiago, João Couto, Flávio Tiago e José Vieira, "The missing link between virtual CRM and e-business performance", *International Business Management*, 2 (1), 3-19, Maio 2008.

Maria Tiago, João Couto, Flávio Tiago e José Vieira, "The E-CRM repercussion in E-Business performance: the European evidence", *E-Business Review*, Nº 8, 2008.

Maria Tiago, "Virtual Communication of MBA Brand Personality: An Exploratory Analysis", *The e-Business Review*, Nº 8, 2008.

Maria Tiago, João Couto, José Vieira e Flávio Tiago, "Virtual SCM a Myth or an Evidence: the European Case", *Journal of E-Business*

Other publications International

Maria Tiago, Flávio Tiago, and João Pedro Couto "Assessing the Drivers of Virtual KM Impact in European Firm's Performance: 5th International Conference on Intellectual Capital, Knowledge Management & Organisational Learning, CD-ROM, pp.503-512, Nova Iorque, EUA.

Other publications National

Maria Teresa Tiago, "Internet-Driven Customer Centric: An Exploratory Analysis", CEEAplA Working Paper nº 21/2008, Dezembro 2008.

Maria Teresa Tiago, João Pedro Couto, Flávio Tiago e José Vieira, "Virtual SCM Impact on E-Business Performance: The European Evidence", CEEAplA Working Paper nº 20/2008, Dezembro de 2008.

João Pedro Couto, Maria Teresa Tiago, Flávio Tiago e José Vieira, "Internet Sales as a New Mode of Internationalization", CEEAplA Working Paper nº 18/2008, Dezembro de 2008.

Flávio Tiago, Maria Teresa Tiago e João Pedro Couto, "Assessing the Drivers of Virtual Knowledge Management Impact on Firm's Performance: an Exploratory Analysis", CEEAplA Working Paper nº 17/2008, Dezembro de 2008.

João Pedro Couto e Isabel Resendes, "Aproximação organizacional à estratégia de internacionalização das cadeias de franchising", CEEAplA Working Paper nº 16/2008, Dezembro de 2008.

Master and Ph.D. thesis completed

João Couto, Orientador das provas de Mestrado em Gestão Pública (Universidade dos Açores) da licenciada Maria dos Santos, "Percepção dos Enfermeiros Avaliados Sobre a Avaliação de Desempenho", (concluído).

Group Productivity

João Couto, Orientador das provas de Mestrado em Gestão (Universidade dos Açores) da licenciada Maria Vitória da Sil intituladas "Contributo para a identificação dos factores que influenciam a competitividade das empresas ultraperiféricas face (concluído).

Internationalization

Maria Tiago, "Internet-Driven Customer Centric: An Exploratory Analysis", Economics and International Business Research Dezembro de 2008, Miami, Florida.

Maria Tiago, Flávio Tiago, and João Pedro Couto "Assessing the Drivers of Virtual KM Impact in European Firm's Performance: A 5th International Conference on Intellectual Capital, Knowledge Management & Organisational Learning, 8-10 de Outubro de 2008, Rio de Janeiro, Brasil.

João Pedro Couto, Maria Tiago, Flávio Tiago e José Vieira, "Internet Sales as a New Mode of Internationalization", Academic Marketing and Management Development Conference, 14-17 de Julho de 2008, Rio de Janeiro, Brasil.

José Vieira, Maria Tiago, João Pedro Couto e Flávio Tiago, "Virtual SCM Impact on E-business Performance: the European Case", Academic Marketing and Management Development Conference, 14-17 de Julho de 2008, Rio de Janeiro, Brasil.

FCT Relatório Científico 2008 Print: 10-05-2011 15:28:18 [Centro de Estudos em Economia Aplicada do Atlântico (CEEApIA)]

Group Description

Title of Research Group:	(RG-Acores-685-2122) Statistics and Operations Management
Principal Investigator:	Francisco José Ferreira Silva
Main Scientific Domain:	Economia e Gestão
Group Host Institution:	Universidade dos Açores

Funding, source, dates

Funding, source, dates

Funding comes mainly from CEEApIA's scheme that allocates funds according to individual scientific outputs. In addition, the researchers are encouraged to consistently seek additional funding sources, such as research grants from FLAD or Direcção Regional da Região dos Açores (DRCT, the Azorean Government sponsored counterpart to FCT), whenever possible, in order to increase funds that, as said, are used for scholarly missions.

Objectives & Achievements

Objectives

The research group in Statistics and Operations Management has as a central objective the development, analysis and computational solution of new mathematical optimization models which must constitute an important contribution to the state-of-the-art in the methodologies employed.

The methodologies to be used are based on the quantitative approach of Operations Research for developing and solving real-world problems and on the statistical analysis for a better understanding of the empirical cases. The group aims to develop research in the field of operations management, at the interface between management, information systems and mathematics.

Another objective of the group is to achieve technology transfer to private and public organizations and improve the management of productive and logistic systems. It is difficult to accomplish any marketing or manufacturing objectives without a well coordinated support system. It involves the integration of information, transportation, inventory, warehousing, material handling, and packaging. The operating responsibility of logistics is the geographical repositioning of raw materials, work in progress, and finished inventories required at the lowest cost possible. Coordinating all these activities both within and among companies is a difficult task asking for the support of academia and to researchers.

It is expected that by the end of the year 2007, the research group will have hired two post-doctoral research fellows, funded by a 3-year period, with PhD's from top universities and solid backgrounds on quantitative methods. This objective will ensure that the group will grow while improving its overall quality.

A main objective of the research group is to publish consistently in highly visible international peer reviewed field and general journals, without loss of generality, Annals of Operations Research, European Journal of Operations Research, Networks, Management Journal of Regional Science, among others.

Main Achievements

The main achievements of the research group are extremely varied, including theoretical contributions, applied research, participation in conferences and workshops, development of international connections with other research groups, Ph.D. and Master's thesis supervision. The group brings together people from different disciplines to work on technology and operations management research projects. The projects consist of theoretical and model based research, surveys implementation and statistical analysis to operations management problems. The research group is starting now its activity with an intense effort in research and we expect to achieve most of our objectives in the future.

Group Productivity

Publications in peer review Journals

Francisco Silva e Daniel Serra, "Locating Emergency Services with Different Priorities: The Priority Queuing Covering Location Problem", *Operational Research Society*, N° 59, pp. 1229-1238, 2008.

Other publications International

Francisco Silva, Gualter Couto e Ruben Cordeiro, "Measuring the Impact of International Financial Reporting Standards (IFRS) in Portugal", In *Shifting Towards International Financial Reporting Standards- Country Perspective (Forthcoming)*, 2008.

Other publications National

Mendes, Armando B.; Ferreira, Aires e Alfaro, Paulo Jorge (2008) "Suporte à decisão em tecnologias de comunicação: Utilização de Modelos de Localização", In: Cota, Manuel Pérez (Ed.) *Actas CISTI2008, Conferência Ibérica de Sistemas e Tecnologias de Informação*. @LibroTex, pp. 97: -4476-2.

Francisco Silva, Gualter Couto e Hugo Coelho, "Future Entrepreneur's Profile", *CEEApIA Working Paper n° 04/2008*, Maio de 2008.

Master and Ph.D. thesis completed

Francisco Silva, Orientador das provas de Mestrado em Ciências Empresariais (Universidade dos Açores) do licenciado Fernando Lopes, intituladas "Eficiência energética – uma aplicação do postulado de Khazzoom-Brookes ao sector automóvel português", (concluído).

Francisco Silva, Orientador das provas de Mestrado em Ciências Empresariais (Universidade dos Açores) do licenciado Hermenegildo Raul, intituladas "Aplicação de Modelos de Cobertura Máxima na localização de bocas-de-incêndio: o caso da cidade de Huambo", (concluído).

Francisco Silva e Gualter Couto, orientador das provas de Mestrado em Gestão/MBA (Universidade dos Açores), do licenciado Hugo Coelho, intituladas "Perspectivas Futuras de Empreendedorismo na RAA", (concluído).

Internationalization

Francisco Silva e Lúcia Gao, "A joint replenishment inventory-location model", *EWGLA XVII*, de 17-19 de Setembro, Alicante Espanha.

Francisco Silva, "Incorporating Inventory Decisions in Competitive Location Models", *ISOLDE XI*, 26 de Junho a 1 de Julho de 2008, Califórnia.

Fernando Lopes, "Technical efficiency in Portuguese Dairy Farms", *82nd Annual Conference of Agricultural Economics Society*, 3 de 2008, Gloucestershire, Reino Unido.

Mendes, Armando B.; Ferreira, Aires e Alfaro, Paulo Jorge (2008) "Suporte à decisão em tecnologias de comunicação: Utilização de Modelos de Localização", apresentada na Conferência Ibérica de Sistemas e Tecnologias de Informação, Ourense, Espanha.

Mendes, Armando B.; Sousa, Áurea e Funk, Günther Matthias A. (2008) "Finding the Region of Origin for Users of Proverbs", *third workshop on statistics, mathematics and computation*, Universidade Aberta: Lisboa, Julho 2008.

Mendes, Armando B.; Ferreira, Aires e Alfaro, Paulo Jorge (2008) "Data Mining e Business Intelligence no Suporte a Decisão em Tecnologias de Comunicação", apresentada no congresso da APDIO, IO2008, Universidade de Trás-os-Montes e Alto Douro: Vila Real, Março 2008.

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Group Description

Title of Research Group:	(RG-LVT-685-3193) Regional Economic Modeling and Public Policy Analysis
Principal Investigator:	Mário José Amaral Fortuna
Main Scientific Domain:	Economia e Gestão
Group Host Institution:	Universidade dos Açores

Funding, source, dates

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In the recent past, funding has been obtained from CEEApIA own funds, from Direcção Regional para a Ciência e a Tecnologia (the Azorean Government sponsored counterpart to FCT), and from the Department of Economics and Management from the University of the Azores. Most funds have been allocated to travel to present articles at international conferences, as documented elsewhere in this report.

As described in "Future Research", funding is secured for the coming years since CEEApIA has in place a scheme that allocates funds according to individual scientific outputs. In addition, CEEApIA's funds, also described at length elsewhere in the report, are sufficient to meet our most pressing needs, namely, to be able to present our articles at international conferences.

Objectives & Achievements

Objectives

To study policy issues using economic models. In particular, general equilibrium, spatial and econometric models.

To construct a CGE modelling platform of the Azorean economy, usable in the analysis of various policy problems, particularly the impact of government (regional, national and EU) policies.

To continue work on other modelling approaches such as econometric.

Main Achievements

Completion of the minimum income support project with publication of a book, two masters level dissertations, two papers and organization of two workshops.

Advances on the CGE model development for the Azores. A first simplified version of the model was finalized. Most of the work on the model was completed, particularly data gathering and preparation. Final model will be completed in 2007. Papers were presented at international conferences; two national conferences were organized, one in the Azores and one in Madeira. Various working papers were finalized. On matrices was finalized.

Dissertations were completed on econometric modelling of the Azorean economy and on intergovernmental transfer effects. Papers on the same topics.

The Angra do Heroísmo team is involved in teaching, research and services activities. Teaching is mainly focused on the Master in Economics and Management with thirteen editions across Portugal, two hundred students since 2000 and many dissertations on water management, cost-benefit analysis, agro-environmental management, of marine management, coastal management and development issues in Angola, Cape Verde, Azores, Brazil and mainland Portugal. There is also a strong involvement with e-learning.

Research has been targeted to issues such as water management (management plans of watersheds), marine management (fisheries), land use planning (spatial interaction models), regional economic models (regional input output models), nature conservation (cost-benefit analysis) and agro-environmental management (mathematical programming models). Services have been focused on international, national and regional congresses, workshops, training courses and conferences. Funding comes from NATO, Portuguese Research and Technology, European Union, Regional Directorate for Science and Technology, Luso-American Foundation, MNC Companies.

Group Productivity

Other publications International

Dentinho TP, Minciardi R, Robba M, Sacile R, Silva V (2008). The Architecture of a Decision Support System (DSS) for Groundwa in Terceira Island (Azores). In Meire P, Coenen M, Lombardo C, Robba M, Sacile R (Eds.), *Integrated Water Management: Practic Studies* (pp. 219-232). Springer Publishers, Berlin.

Master and Ph.D. thesis completed

Mário Fortuna e António Gomes de Menezes, orientadores das provas de Mestrado em Gestão/MBA (Universidade dos Açor Daisi Leandres Carvalho, intituladas "O Indicador Coincidente para a Economia Açoriana", (Concluído).

Internationalization

Mário Fortuna, Sameer Rege e Ali Bayar, "Welfare Impacts of Road Construction using a Public Private Partnership: A CGE Ar International Conference on Public Policy Management, 3-6 de Agosto de 2008, Bangalore, Índia.

Sameer Rege e António Gomes de Menezes, "Social Security in Portugal: An Overlapping Generations Model", 3rd Internation Policy Management, 3-6 de Agosto de 2008, Bangalore, Índia.

Sameer Rege e António Gomes de Menezes, "Social Security in Portugal: An Overlapping Generations Model", 2nd Annual Me Economic Journal, 4-5 de Julho de 2008, Évora, Portugal.

Sameer Rege e António Gomes de Menezes, "Fitting the Generalised Hyperbolic and Normal Inverse Gaussian Distributic International Conference on Computing in Economics and Finance, 26-28 de Junho de 2008, Paris, França.

Mário Fortuna, "Measuring the Impacts of Personal and Corporate Income Tax Cuts on a Small Island Open Economy", 47th Western Regional Science Association, 17-20 de Fevereiro de 2008, Hawaii, EUA.

Dentinho TP, Ferreira P, Hewings G (2008). Integration of a regional input-output model with a spatial interaction model fo Nacional da Associação Brasileira de Estudos Regionais, Aracajú, Brazil, 20-22 October.

Dentinho TP, Silva J, Cechella C (2008). A contribuição do investimento directo brasileiro para o desenvolvimento regional Nacional da Associação Brasileira de Estudos Regionais, Aracajú, Brazil, 20-22 October.

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Main Scientific Domain:	Economia e Gestão
Group Host Institution:	Instituto de Medicina Molecular - Faculdade de Medicina da Universidade de Lisboa

Funding, source, dates

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