

FCT Relatório Científico 2009 Print: 10-05-2011 15:22:14 [Centro de Estudos em Economia Aplicada do Atlântico (CEEApIA)]

### General Information

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

### Host Institutions

<b>Leading Host Institution:</b>	Universidade dos Açores
<b>Other Institutions Involved:</b>	Universidade da Madeira

### Objectives & Achievements

#### Unit Description

CEEApIA continues increasing the number of its researchers. In the year 2009 CEEApIA comprehended a total of 30 researchers. Azores there are 18 research members and 5 associated researchers. In Madeira there are 6 research members and 1 associated

The research center has now defined some new rules in order to accept new members. A person regarded as Other Member ca CEEApIA's Researchers if he/she has a PhD and his/her CEEApIA's score is above a minimum classification required to be a Rese: is defined on CEEApIA's incentive scheme. This criterion also applies to PhD professors from outside the center who show CEEApIA.

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 institution, where its administration is based) and the University of Madeira.

CEEApIA's management organization is the same as in the previous years. It is composed by the following units: 1. Scienti 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 Scie 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 th of each section (Santiago Budria in Madeira and Francisco Silva in the Azores). This ensures timely and coordinated executive n institutions. There is a full-time staff assistant who alleviates researchers from non-research duties. Finally, the Steering Comr known international scholars who visit CEEApIA and provide advice on how to foster a better research environment within CEEA

We note that nowadays CEEApIA has in place a transparent scheme that allocates funds according to individual scientific output 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, th research and every year 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 establish CEEApIA as one of the best research centres in Portugal and a visible research center in Europe. Such a general objecti that the researchers affiliated with CEEApIA hold top-notch PhD training from some of the best American and European challenge lies within CEEApIA's management to create a stimulating research environment, that provides the correct stimu scholars who consistently 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 researchers should experience in the near future the incentives to take on the risks associated with publishing in better journals,

CEEApIA maintains its incentive scheme, created in early 2007 and updated in the year 2009, which allocates research funds acc individual scientific outputs. Hence, CEEApIA's researchers have incentives to publish in highly visible international peer reviewer scheme is managed in a dynamic way and currently it is linked to the ABS – Association of Business Schools - Journal Qu: <http://www.the-abs.org.uk/?id=257>). This guide has two main advantages: it is actualized every year and it considers a wide i namely, accounting, business history, business law, entrepreneurship, general management, human resources management, innovation management, information management, marketing, organization studies, psychology, operations research, publ



## Activities

- Faculty of Economics and Business Administration), "The Social Accounting Matrix (SAM) as a database for economic modelling  
- Universidade Técnica de Lisboa). CEEApIA is at the moment organized in four research groups: labour economics, international economic modelling and public Policy Analysis and statistics and operations management. Researchers are motivated to work with researchers of the same group but also with researchers from other groups.

## Outreach activities during the year of 2009

CEEApIA intensively sponsored several outreach activities in the year 2009. With respect to science, we note, firstly, that CEEApIA published extensively, in international peer reviewed journals, national journals, discussion paper series, conference proceedings; also published books (mostly in-house publishing and educational books). By the same token, CEEApIA's researchers have presided over a number of conferences on a regular basis.

CEEApIA's research members also provided the expected and much appreciated services to science and to their professions: editing several top field journals and some well known general journals. Editing activities are less pervasive among CEEApIA's members. A large number of young PhD's that we find in CEEApIA. CEEApIA's researchers also took an active role in organizing scientific workshops to medium sized and to a regular seminar series.

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

Finally, CEEApIA has collaborated with several departments of its host institutions, by providing research infrastructure and mentoring Master and PhD students. CEEApIA's researchers are supervising more than 10 PhD students and a large number of master students, 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
	<b>79.860,00</b>	<b>103.343,47</b>

## 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
<b>Balance</b>	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)

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### Group Description

<b>Title of Research Group:</b>	(RG-Madeira-685-1184) Labour Economics
<b>Principal Investigator:</b>	Pedro Telhado Pereira
<b>Main Scientific Domain:</b>	Economia e Gestão
<b>Group Host Institution:</b>	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).

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

### 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 training, on 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 shapes shape the wage distribution and determine the amount of wage risk associated with schooling.

#### Main Achievements

In the year 2009, the Labour Economics Group has published around 8 papers in peer-reviewed journals and around 7 chapters being under consideration for publication in highly visible publishers and 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 (Imperial College University of London). This has resulted in several joint works that have been already published and several lines of research are ongoing.

### Group Productivity

#### Publications in peer review Journals

Pedro Telhado Pereira, Subjective Assessment on Vocational Training Activities: A Generalized Ordered Probit Approach", Journal of Empirical Research in Vocational Education and Training, 1(2), 2009.

### Group Productivity

Pedro Telhado Pereira, "The Contribution of Vocational Training to Employment, Job-related Skills and Productivity: Evidence (with Santiago Budria), *International Journal of Training and Development*, 2009, 13:1, 53:72.

Pedro Telhado Pereira, "Are Vocational Training Programs Truly Effective? Evidence from Self-assessed Data", (with Santiago Budria), *International Journal of Training and Development*, 2009.

Corrado Andini, "Teaching Keynes's Principle of Effective Demand within the Real Wage vs. Employment Space", *Forum for Social Economics*, 3, pp.209-228, 2009.

Corrado Andini, "Wage Bargaining and the (Dynamic) Mincer Equation", *Economics Bulletin*, Vol. 29 (3), pp.1846-1853, 2009.

Corrado Andini, "Financial Intermediation and Growth: Causes and Causalities without Outliers", *Portuguese Economic Journal*, Vol. 18 (1), pp.1-15, 2009.

António Gomes de Menezes e Ainura Uzagalieva, "The Poverty Effect of Remittance Flows in Georgia", *Post-Communist Economics*, (21) 4, 2009.

António Gomes de Menezes, José Vieira e Jeana Carvalho, "Assessing Tourist Satisfaction in the Azores: A Microeconomic Approach", *Journal of Tourism Research*, (2) 1, pp.91-122, 2009.

### Other publications International

Pedro Telhado Pereira, "Education and Wage Dispersion: New Evidence for Europe", (with S. Budria), forthcoming in *Educational Economics*, Dolton, P., Asplund, R. and Barth, E. (eds.), Edward Elgar, 2009.

Corrado Andini, "Financial Development and Long-Run Growth: Cross Sectional Evidence Revised", IN *The Economics of Impacts of Financial Development*, Calcagnini, G., and Saltari, E. Eds., Heidelberg: Springer, 2009.

António Gomes de Menezes e José Vieira, "Willingness to Pay for Airline Services Attributes: Microeconomic Evidence from a Discrete Choice Model", IN *Issues in Economic Performance*, Lit-Verlag, Alemanha, 2009, pp.101-115.

António Gomes de Menezes, José Cabral Vieira e Ana Isabel Moniz, "Determinants of Length of Stay a Parametric Survival Analysis", *Modern Tourism Economics*, Springer, Vol. I, Physica-Verlag, 2009, pp.85-107, ISBN: 978-3-7908-2123-9.

Pedro Telhado Pereira, António Almeida e António Gomes de Menezes, "Willingness to Pay for Airline Services: A Stated Preference Approach", *Advances in Modern Tourism Research*, Springer, Vol. II, Physica-Verlag, 2009, pp.165-175, ISBN: 978-3-7908-2123-9.

Corrado Andini How Fast Do Wages Adjust to Human-Capital Productivity? Dynamic Panel-Data Evidence from Belgium, *De Economist Discussion Papers*, November 2009, n° 4583, Institute for Study of Labor. PDF

### Master and Ph.D. thesis completed

José Vieira, orientadores das provas de Mestrado em Gestão Pública (Universidade dos Açores), da licenciada Maria da Cordeira Morgado, intituladas "Grau de Satisfação dos Utentes em Relação aos Cuidados Prestados pela Fisioterapia. Estudo Comparativo de Prestadores de Cuidados de Fisioterapia na Ilha de S. Miguel", (concluído em Novembro de 2009).

José Vieira, orientadores das provas de Mestrado em Gestão Pública (Universidade dos Açores), do licenciado Carlos Edmilson Resendes, intituladas "A Nota de Físico-química: a Influência dos inputs", (concluído em Junho de 2009).

José Vieira, orientadores das provas de Mestrado em Gestão Pública (Universidade dos Açores), da licenciada Mónica Bettencourt Picanço, intituladas "A Qualidade na Administração Pública Regional: o Caso dos Açores", (concluído em Junho de 2009).

José Vieira, orientadores das provas de Mestrado em Gestão Pública (Universidade dos Açores), do licenciado Carlos Alberto Fernandes, intituladas "Qualidade de Vida de Doentes de Hemodiálise: Determinantes Socioeconómicos e as suas Implicações Económicas", (concluído em Junho de 2009).

António Gomes de Menezes e José Vieira, orientadores das provas de Mestrado em Gestão de Empresas/MBA (Universidade dos Açores), da licenciada Jeana Daisy Leandres Carvalho, intituladas "Turismo: o Destino Açores na Perspectiva dos Turistas", (concluído em Março de 2009).

### Organization of conferences

Corrado Andini, Comissão Organizadora do 3rd Annual Meeting of the Portuguese Economic Journal, June 2009, University of Nicosia, Cyprus.

### Internationalization

Ainura Uzagalieva, "The poverty effect of remittance flows: evidence from Georgia", 6th International Conference Development and Policy, 2-3 de Julho de 2009, Bilbao, Espanha.

**Group Productivity**

Corrado Andini, The Dynamic Mincer Equation: Evidence and Theory, 24th National Conference of the Italian Association September 2009, University of Sassari, Italy.

Corrado Andini, The Dynamic Mincer Equation: Evidence and Theory, 3rd Annual Meeting of the Portuguese Economic Journal, Madeira, Portugal.

Corrado Andini, The Dynamic Mincer Equation: Evidence and Theory, 12th Applied Economics Meeting, June 2009, Univers Carlos, Spain.

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## Group Description

<b>Title of Research Group:</b>	(RG-Acores-685-2121) International Business
<b>Principal Investigator:</b>	João Pedro de Almeida Couto
<b>Main Scientific Domain:</b>	Economia e Gestão
<b>Group Host Institution:</b>	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 (Government sponsored counterpart to FCT), and from the Department of Economics and Management from the University of the Azores. Funds have been allocated to travel to present articles at international conferences, as documented elsewhere in this report. For "Research", funding is secured for the coming years since CEEApIA has in place a scheme that allocates funds according to individual research projects. In addition, CEEApIA's funds, also described at length elsewhere in the report, are sufficient to meet our most pressing need: 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: international marketing; and (3) innovations and technological development and their impact on international business and management. These objectives are connected with the principal investigator main area of study and academic training and are also connected within the international business (IB) field, namely the internationalization process, multinational functions and management subsidiaries management. The research breaches to the area of international marketing, with particular emphasis on the internationalization process, which is the PhD developed by one of the researchers. The internet and information and communications (ICT's) have taken a relevant role of these aspects for firms in general, and multinational companies are no exception, and due to the growing importance of technology in competitiveness, as a firm's fundamental environmental element in the international context. Again, some of these topics are being developed by one of the team researchers, currently writing his PhD thesis. One main perspective in developing these research activities is the potential of collaborations with researchers from other research groups and institutions. That was the case of collaboration with Francisco Silva and Mário Fortuna who belong to other research groups from CEEApIA and Prof. Vítor Gonçalves from the University of Lisbon or Prof. Maria Natário and Ascensão Braga from the Guarda Polytechnic Institute. The research group finds this research stimulating and conducive to publications in highly visible field and general journals due to the growing interest in such importance of the underlying issues. We note that the research has undertaken a number of business surveys in order to obtain data that is appreciated for its uniqueness. To pursue such line of research is an objective of the research group, with the challenge being to publish in highly visible journals.

### Main Achievements

The main achievements during the evaluation period can be identified with the establishment of the group, the presentation at international conferences and the publication of articles in international academic journals with peer review. Since this is a research group, very small and with few, and young PhD members, the achievements obtained during the evaluation period are: the development of the group, the implementation of collaborative work bases with researchers from other groups and the competences and experiences necessary to develop the group research activities. This objective has been achieved and two Master's theses were developed. The presentation in international conferences was an objective to gain experience and knowledge, skills and to establish contacts with other researchers. This objective resulted in the presentation of 9 papers in international conferences. An achievement regards publications that represent the fundamental indicator for the research group activities. In the year 2009, 3 articles that are directly related to this research group, and 1 chapter in a book. The group also organized the following conference: IIBC

## Group Productivity

### Publications in peer review Journals

Maria Tiago, João Couto e Flávio Tiago, "Assessing the drivers of virtual KM impact in European firm's performance: an exploratory study", *Journal of Knowledge Management* (Forthcoming), 2009.

**Group Productivity**

Maria Tiago e Alexandre Guadêncio, "E-insurance: an overview of the Portuguese reality", *The e-business Review*, Vol.9, 2009.

Maria Tiago, João Couto e Flávio Tiago, "Website quality: Looking Back, Looking Forward", *The e-business Review*, Vol. 9, 2009.

**Other publications International**

Paulo Alexandre Neto, João Pedro Couto e Maria Manuela Natário, "Governance and the Determinants of Local Economic Deve Food Production and Rural Sustainable Development, Teresa de Noronha Vaz, Peter Nijkamp e Jean-Louis Rastoin Eds., Ashq 2009, pp. 81-99, ISBN: 978-0-7546-7462-7.

**Other publications National**

Gualter Couto, Rita Marques Brandão e Nuno Roque, "Portfolio Performance Evaluation: the Case of the Portuguese Mutual F Working Paper N° 14/2009 Dezembro de 2009.

Gualter Couto e Sofia Ferreira, "Os Determinantes da Estrutura de Capital de Empresas do PSI-20", CEEApIA Working Paper N° 0

Gualter Couto e João Crispim, "Dinâmicas de Empreendedorismo e Microcrédito nos Açores", CEEApIA Working Paper N° 07/20

**Master and Ph.D. thesis completed**

José Azevedo Pereira e Gualter Couto, orientadores das provas de Doutoramento em Gestão, Universidade Técnica de Lisboa Pedro Miguel Silva Gonçalves Pimentel, intituladas "Avaliação do Investimento em Alta Velocidade Ferroviária", (concluído em N

João Pedro Couto/Maria Teresa Tiago, orientadores das provas de Mestrado em Ciências Empresarias (Universidade dos Açores Sérgio Alexandre Vicente, intituladas "Determinantes da Propensão para o Empreendedorismo entre os Alunos do Ensino Pro: (concluído em Novembro de 2009).

João Pedro Couto, orientadores das provas de Mestrado em Ciências Empresarias (Universidade dos Açores), da licenciada M Sousa, intituladas "Grau de inovação na PME's nas Regiões Periféricas da Guarda e Açores", (concluído em Novembro de 2009).

Maria Teresa Borges Tiago, orientador das provas de Mestrado em Ciências Empresarias (Universidade dos Açores), do lice Oliveira Ourique, intituladas "Motivações e Atributos ao Consumo nos Centros Comerciais: uma Aplicação aos Açores", (conc 2009).

Maria Teresa Tiago, orientadores das provas de Mestrado em Ciências Empresarias (Universidade dos Açores), do licenci Gaudêncio, intituladas "O Impacto do Comércio Electrónico no Mercado Segurador Português", (concluído em Novembro de 20

Maria Teresa Tiago, orientadores das provas de Mestrado em Gestão de Empresas/MBA (Universidade dos Açores), do licenci Batista Amaral, intituladas "Intenções de Fidelização dos Clientes no Mercado Móvel Português", (concluído em Maio de 2009).

João Pedro Couto, orientadores das provas de Mestrado em Ciências Empresarias (Universidade dos Açores), da licenciada I intituladas "Aproximação Organizacional à Estratégia de Internacionalização das Cadeias de Franchising ", (concluído em Março

Maria Teresa Tiago, orientadores das provas de Mestrado em Ciências Empresarias (Universidade dos Açores), da licenciada Queiróz, intituladas "A Influência dos Adolescentes sobre os Pais no Processo de Compra ", (concluído em Março de 2009).

Gualter Couto e Rita Brandão, orientadores das provas de Mestrado em Ciências Empresarias (Universidade dos Açores), do licenci Couto Roque, intituladas "Avaliação do Desempenho dos Fundos de Investimento em acções no Mercado de Capitais Por Novembro de 2009).

Gualter Couto, orientadores das provas de Mestrado em Gestão de Empresas/MBA (Universidade dos Açores), da licenciada Ferreira, intituladas "Os Determinantes da Estrutura de Capital das Empresas do PSI-20", (concluído em Março de 2009).

**Organization of conferences**

João Pedro Couto e Maria Teresa Tiago, Comissão Organizadora IIBC 2009, que decorreu de 9 a 10 de Outubro 2009, Universidade

**Internationalization**

Maria Teresa Tiago, "A Critical Examination of E-insurance: The Portuguese Case", 2009 Economics and International Business F 12 de Dezembro de 2009, Miami, EUA.

**Group Productivity**

João Pedro Couto, "Propensity for Entrepreneurship among University Students", Global Business and Finance Research Conference 2009, Istanbul, Turquia.

Maria Teresa Tiago, "The Impact of Internet Marketing on Firms' Online Performance: The European Case", LISA International Conference 2009, San Francisco, EUA.

João Pedro Couto, "Subsidiary Roles and Relationships With Multinational Headquarters", Evento: Global Business and Finance International Conference 2009, Londres, Inglaterra.

João Pedro Couto, "Measuring Virtual Knowledge Management Impact in Firm's Performance", IADIS 2009, 18-22 de Junho de 2009, Lisboa, Portugal.

Maria da Graça Batista, "Minimal Structures and Maximum Satisfaction: an Empirical Study", 2009 Hawaii International Conference on System Sciences, Honolulu, EUA.

Maria Tiago, "Insurance: An Overview of the Portuguese Reality", 9th Conference of the International Academy of e-Business, Honolulu, EUA.

João Pedro Couto, "Assessing the Drivers of Virtual Knowledge Management Impact In European Firm's Performance: an Exploratory Study", International Conference e-Society 2009, 25-28 de Fevereiro de 2009, Barcelona, Espanha.

Gualter Couto, "Expected Time to Invest in a New Location", Real Options 2009, 17-20 de Junho de 2009, Minho e Santiago de Compostela, Espanha.



### Group Productivity

Carlos Santos, Gualter Couto e Pedro Pimentel, "Forecast of Hotel Overnights in the Azores", IN Advances in Tourism Economics, Physica-Verlag, 2009, pp.179-189, ISBN: 978-3-7908-2123-9.

Mendes, Armando B.; Ferreira, Aires e Alfaro, Paulo Jorge (2009) "Supporting a Telecommunications Decision with OLAP and Data Mining in Azores" Em: Cruz-Cunha, Maria Manuela; Varajão, João Eduardo Quintela e Amaral, Luís Alfredo Martins Proceedings Conference on ENTERprise Information Systems. pp.537-549. ISBN: 978-972-669-929-6.

Cavique, Luis ; Mendes, Armando B. e Santos, Jorge M.A. (2009), "An Algorithm to Discover the k-Clique Cover in Networks", Eds.) "Progress in Artificial Intelligence" EPIA 2009, LNAI 5816, Springer-Verlag Berlin Heidelberg, pp. 363-373.

Noncheva, Veska; Mendes, Armando e Silva, Emiliana (2009) "An Approach to Variable Aggregation in Efficiency Analysis for Forecasting, Data Mining", International Book Series Information Science & Computing, Nº 8, (Suplemento do International Journal of Intelligent Technologies and Knowledge. Volume 3 / 2009), pp. 97-104.

Noncheva, Veska; Mendes, Armando e Silva, Emiliana (2009) "A Software Framework for Measuring Efficiency", Book of Abstracts of the 10th International Conference on Intelligent Systems and Knowledge, Rennes, França, Julho 8-10, pp. 144-144.

### Other publications National

Mendes, Armando B.; Ferreira, Aires e Alfaro, Paulo Jorge (2009) "Business intelligence no suporte a decisões sobre comunicação de massa" Revista de Ciências da Computação, 3 (3) 23-37.

Mendes, Armando B.; Funk, Günther Matthias A. e Funk, Maria Gabriela C.B. (2009) "Extrair Conhecimento de Provérbios", ESTATÍSTICA, Fátima "Temas em Métodos Quantitativos 6", Sílabo, Lisboa, pp. 89-107.

Cavique, Luis; Mendes, Armando B. e Santos, Jorge M.A. (2009), "Um Algoritmo para Encontrar a Cobertura por k-Cliques em Redes", Eds.) "Progress in Artificial Intelligence" EPIA 2009, LNAI 5816, Springer-Verlag Berlin Heidelberg, pp. 363-373.

Noncheva, Veska; Mendes, Armando; Silva, Emiliana and Santos, Jorge (2009) "Canonical Correlation Analysis in Variable Aggregation", Eds.) "Progress in Artificial Intelligence" EPIA 2009, LNAI 5816, Springer-Verlag Berlin Heidelberg, pp. 363-373.

Emiliana Participação nas III Jornadas Ibero-Atlânticas de Estatísticas Regionais. 22 e 23 de Outubro, Promovido pelo Serviço Regional de Estatística da Região de Angra do Heroísmo. 2009.

Emiliana "Canonical Correlation Analysis in Variable Aggregation in DEA" Noncheva, V., A. Mendes, E. Silva, J. Santos. 2009 Congresso da APDIO, Porto, Portugal, September 7-9.

Emiliana "Valores Ambientais e Envelhecimento". Emiliana Silva e Rosalina Gabriel. II Congresso Internacional "Envelhecimento e Saúde", Universidade dos Açores, Ponta Delgada, 2009.

Emiliana " Uma abordagem multicritério à Gestão de Resíduos Sólidos na Ilha Terceira" Bela Dutra e Emiliana Silva. 15º Congresso da Associação de Estatísticos de Cabo Verde, Praia, Cabo Verde, 9-11 de Julho de 2009.

Oliveira, Carlos; Mendes, Armando B. e Silva, Emiliana (2009) "Quotas Leiteiras: Aplicação do Método Delphi", CEEApIA WP 11/2009.

Mendes, Armando B.; Funk, Günther e Funk, Gabriela (2009) "Extrair Conhecimento de Bases de Dados: O caso dos Provérbios", ESTATÍSTICA, Fátima "Temas em Métodos Quantitativos 6", Sílabo, Lisboa, pp. 89-107.

Cavique, Luis; Mendes, Armando B. e Santos, Jorge M.A. (2009) "An Algorithm to Discover the k-Clique Cover in Networks", 14º Congresso de Inteligência Artificial, Aveiro.

" Uma abordagem multicritério à Gestão de Resíduos Sólidos na Ilha Terceira" Bela Dutra e Emiliana Silva. 15º Congresso da Associação de Estatísticos de Cabo Verde, Praia, Cabo Verde, 9-11 de Julho de 2009. Actas em CD.

Carlos Oliveira, Armando B. Mendes e Emiliana Silva, "Quotas Leiteiras: Aplicação do Método Delphi", CEEApIA Working Paper 11/2009.

Armando B. Mendes, Günther Funk e Gabriela Funk, "Extrair Conhecimento de Bases de Dados: O caso dos Provérbios", ESTATÍSTICA, Fátima "Temas em Métodos Quantitativos 6", Sílabo, Lisboa, pp. 89-107.

José M.S. Ferreira e Armando B. Mendes, "O Efeito de Factores Climáticos no Consumo de Energia Eléctrica", CEEApIA Working Paper 11/2009, Dezembro de 2009.

### Master and Ph.D. thesis completed

Francisco Silva, orientador das provas de Mestrado em Ciências Empresariais (Universidade dos Açores), do licenciado José João "Optimização das Rotas de Distribuição: O Caso da Melo Abreu na Cidade de Ponta Delgada", (concluído em Novembro de 2009).

**Group Productivity**

Francisco Silva, orientadores das provas de Mestrado em Ciências Empresarias (Universidade dos Açores), do licenciado Fátima Matos, intituladas "Eficiência Energética – Uma Aplicação do Postulado de Khazoom-Brookes ao Sector Automóvel Português de 2009).

**Internationalization**

Veska Noncheva, "A Software Framework for Measuring Efficiency", The R User Conference 2009, 7-10 de Julho de 2009, Rennes

Francisco Silva, "A joint location inventory warehouse model", 23rd European Conference on Operational Research, 5-8 de Julho de 2009, Alemanha.

Armando B. Mendes, "Networks in an oral culture study: finding the region of origin for users of proverbs", 23rd European Conference on Operational Research, 5-8 de Julho de 2009, Bona, Alemanha.

Veska Noncheva, "An Approach to Variable Aggregation in Efficiency Analysis", International Conference Classification, Forecast 2009), 22 de Junho a 2 de Julho de 2009, Varna, Bulgária.

Veska Noncheva, "An Approach to Variable Selection in Efficiency Analysis", IADIS European Conference on Data Mining 2009, 1 de Julho de 2009, Algarve, Portugal.

Armando Mendes, "Factores Climáticos no Consumo de Energia Eléctrica: Um Caso com Utilização de Data Mining", CISTI 2009, Póvoa do Varzim, Portugal.

Mendes e Armando B. (2009) "Uma Medida de Coesão Baseada em Sequências de Coberturas de k-Cliques", 2º Encontro de Análise de Dados, Lisboa.

Emiliana (2009) "Decision Support for Enhanced Productivity with R Software: An Azorean farms case study" comunicação no congresso annual da WDSI, Hawaii.

**Government/Organization contract research**

Emiliana Silva, "Quadro Macroeconómico da Região Autónoma dos Açores - 2008" Entidade Requerente: Direcção Regional dos Recursos Agrícolas, Florestais e Pescas. Emiliana Leonilde Diniz Gil Soares da Silva. Professora Auxiliar. Universidade dos Açores – Departamento de Economia Aplicada nos Açores – CEEApA. Maio de 2009.

FCT Relatório Científico 2009 Print: 10-05-2011 15:25:15 [Centro de Estudos em Economia Aplicada do Atlântico (CEEApIA)]

### Group Description

<b>Title of Research Group:</b>	(RG-LVT-685-3193) Regional Economic Modeling and Public Policy Analysis
<b>Principal Investigator:</b>	Mário José Amaral Fortuna
<b>Main Scientific Domain:</b>	Economia e Gestão
<b>Group Host Institution:</b>	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 (Government sponsored counterpart to FCT), and from the Department of Economics and Management from the University of the Azores. 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 to individual scientific outputs. In addition, CEEApIA's funds, also described at length elsewhere in the report, are sufficient to meet the 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. The impact matrix 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, Brasil 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, Portugal Research and Technology, European Union, Regional Directorate for Science and Technology, Luso-American Foundation, MCTES and Companies.

### Group Productivity

#### Publications in peer review Journals

Chechella C, Ramos Silva J, Dentinho TP (2009). Explaining trade and FDI relationships in a gravitational model. *Studies in Regional Economics of the Japan Section of the RSEI*, 39(1): 41-52.

## Group Productivity

### Other publications National

Ali Bayar, Mário Fortuna e Sameer Rege, "Welfare Impacts of Road Construction Using a Public -Private Partnership: A CGE CEEApIA Working Paper N° 05/2009, Março de 2009.

Ali Bayar, Mário Fortuna, Cristina Mohara, Masudi Opese e Suat Sisik, "Measuring the Impacts of Personal and Corporate Income on the Azorean Island Open Economy", CEEApIA Working Paper N° 04/2009, Março de 2009.

Ali Bayar, Cristina Mohara, Mário Fortuna, Sameer Rege e Suat Sisik, "Analysing the Impacts of Closure of a Military Base Using a CGE Model", CEEApIA Working Paper N° 03/2009, Março de 2009.

Mário Fortuna, Ali Bayar, Cristina Mohara, Masudi Opese e Suat Sisik, "Azormod Dynamic General Equilibrium Model for Azores", CEEApIA Working Paper N° 02/2009, Março de 2009.

### Master and Ph.D. thesis completed

Mário Fortuna e Francisco Silva, orientadores das provas de Mestrado em Ciências Empresarias (Universidade dos Açores), de Canto Brandão Cabral, intituladas "Análise Custo-Benefício: Construção de uma Infra-Estrutura Viária", (concluído em Novembro de 2009).

### Internationalization

José Rosa Nunes, "Archipelago of Açores", 2nd International Conference on Renewable Energy Sources and Energy Efficiency 2009, Nicósia, Chipre.

José Rosa Nunes, "Energy Independence in Islands - the Archipelago of Açores a Case Study", 5th Dubrovnik Conference on State of Energy Water and Environment Systems, 29 de Setembro a 3 de Outubro de 2009, Drubovnik, Croácia.

José Rosa Nunes, "Economic and Environmental Impact of Geothermal Production Electricity in S. Miguel Island of Açores", International Conference on Renewable Energy and Power Quality (ICREPQ'09), 15-17 de Abril de 2009, Valência, Espanha.

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Ali Bayar, Mário Fortuna, Cristina Mohara, Masudi Opese e Suat Sisik, "Measuring the Impacts of Personal and Corporate Income Tax on Island Open Economy", CEEAplA Working Paper N° 04/2009, Março de 2009.

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