ANNUAL RESEARCH ACTIVITY REPORT 2022

October 2023

Index

@ rem@iseg.ulisboa.pt

http:// https://rem.rc.iseg.ulisboa.pt/

https://twitter.com/ResearchRem

REM
RESEARCH IN
ECONOMICS AND
MATHEMATICS

ANNUAL RESEARCH ACTIVITY REPORT 2022
OCTOBER 2023

REM - Research in Economics and Mathematics

(6) **research groups**

(92) **integrated members**

(50) **collaborators**

(3) **doctoral programmes**

(712) **articles in international journals,**
2012 – October 2023 (highly ranked in Web of Science, Scopus, ABS, and FT)

(25) **recently funded FCT research projects**

(301) **REM WPs** 2017 – November 2023

1. Introduction

REM - Research in Economics and Mathematics is a research consortium hosted by ISEG, the School of Economics and Management of Universidade de Lisboa, which is the largest and most reputed Portuguese University. The consortium was formed in the middle of 2017 by bringing together two research centres:

CEMAPRE — Centro de Matemática Aplicada à Previsão e Decisão Económica — Mathematics Applied to Forecasting and Economic Decision

UECE — Research Unit on Complexity and Economics

REM produces original research in Economics and Mathematics, both theoretical and applied, taking a multidisciplinary stance at complex problems in economies and societies. The consortium encompasses several areas of research covering economics, mathematics and finance, behavioural and political economy. The research produced is a useful instrument for the formulation and the critical analysis of public policy in connection with industry stakeholders. Moreover, REM bears strong cooperation ties with governmental institutions, Central Banks (notably Banco de Portugal), and international organisations (IMF, OECD, and ECB), and regulators to drive an updated agenda of research into economic and societal challenges.

REM's researchers are organized in six groups: Econometrics; Mathematical Analysis and Computational Finance; Macroeconomics; Mathematics of Complex Systems; Microeconomics; and Statistics and Actuarial Science. At the end of 2021, there were 80 integrated members and around 50 collaborators encompassing research associates and Ph.D. students.

REM hosts and coordinates three doctoral programmes at ISEG, being committed to research-based advanced teaching. Ph.D. students are integrated members of research teams, often in international consortia, and M.Sc. students prepare their dissertations in close articulation with ongoing research lines.

Regarding impact, REM ranks high in publication records according to international standards. There is an active policy for promoting publication in excellent scientific journals and books published by international publishers. Nonetheless, we are also strongly committed to make our research outputs freely available via working papers and open-access publications. Indeed, REM members have published more than 500 articles in international peer-reviewed journals, with more than 20% of them placed in the first quartile of Web of Science (or Scopus). These publications are also highly ranked in the ABS and FT journal rankings. In addition, REM has its own Working Paper series indexed in IDEAS/RePEc, with 160 published WPs.

REM is a member of the **EconPol Europe** – the European network for economic and fiscal policy research – a network of 14 policy-oriented university and non-university research institutes across 12 countries (Czech Republic, the Netherlands, Portugal, Spain, Switzerland, Germany, France, the UK, Finland, Austria, Italy and Belgium).

EconPol Europe was founded by:

- ifo Institute – Leibniz Institute for Economic Research at the University of Munich e. V. (ifo; Munich, Germany)

REM also participates in, and manages **XLAB – Behavioural research Lab**, a laboratory for scientific research and data collection whose main goal is the study of decision-making processes and economic, political, and social behaviour. This infrastructure conducts experimental studies, surveys about economic and social behaviour, and measurement tests. **XLAB** is located at the Lisbon School of Economics & Management of the University of Lisbon.

XLAB is a component of PASSDA (*Production and Archive of Social Science Data*) is the Portuguese infrastructure for the collection, archive and dissemination of data about social and political attitudes, values, and behaviours. It is the national node of several international research networks and infrastructures that collect these types of data through surveys applied to representative samples of the population, such as the **European Social Survey-ERIC** or the **Comparative Study of Electoral Systems**, as well as of the Consortium of European Social Science Data Archives (**CESSDA-ERIC**).

PASSDA is integrated in the **Portuguese Roadmap of Research Infrastructures** supported by the Foundation for Science and Technology, and was instituted as a partnership between research centres and units of the University of Lisbon, ISCTE-IUL, the University of Coimbra and the University of Porto.

2. Research Groups

2.1. Econometrics

The **Econometrics group** consists of 18 researchers who are mostly full-time lecturers at ISEG. The group is heterogeneous and conducts research in distinct areas of Econometrics. While some members exclusively conduct empirical research, others focus on theory. The majority, however, combine these two strands of research.

We highlight three principal areas of research: i) microeconometrics, more specifically, panel data, discrete choice models, fractional regression models, sample selection, quantile regression (mostly on cross-section analysis), conditional moments constraints, missing data, attrition, discrete-continuous choice models, endogeneity in nonlinear models and spatial econometrics; ii) time series, in particular, clustering and classification, multivariate Markov chain, regression-based tail index estimation, double unit roots and value-at-risk and expected shortfall; iii) applied economics on poverty, social exclusion, income distribution and social policy.

On top of these main areas, our group occasionally conduct research in areas close to statistics such as nonparametric estimation (e.g., density forecast based on time- and state-domain, expected time to cross a threshold, and structural change test in duration).

2.2. Economics and Mathematics of Complex Systems

The **Economics and Mathematics of Complex Systems group** is a multidisciplinary group that consists of 7 mathematicians and 8 economists who contribute to tackling human problems using their modelling expertise. Many of these contributions rely on the feedback of social phenomena, which, in addition to material constraints, are also a result of human decision processes.

We believe that modelling can only be relevant to the society if it addresses real and actual problems. Therefore, the joint expertise from mathematics and social sciences is needed. The members of this group have different backgrounds and diverse scientific training and work together in a true interdisciplinary spirit.

The group comprises four main research lines: i) non-linear dynamical systems (theory and applications), including computational economics and finance; ii) innovation studies, which includes modelling and reconstruction of innovation processes; iii) bibliometric and scientometric research, and iv) network structure and dynamics.

2.3. Macroeconomics

The **Macroeconomics Group** has 20 members, some of them also with links with Banco de Portugal. Several topics of research include fiscal policy, monetary policy alongside macroeconometric modelling and DSGE modelling.

Other lines of research deal with macroeconomic dynamics, macroprudential policies and household indebtedness, government efficiency analysis, and international economic and

financial integration, euro area long-term sovereign bond yields, macroeconomics of imperfect competition, firm dynamics and macroeconomic dynamics, or on the mathematics of macroeconomic dynamics, measuring the output gap, and the relevance of public investment for economic activity.

Members of the group organise a regular workshop on macro issues that takes place around the economics' schools in Lisbon.

2.4. Mathematical Analysis and Computation Finance

The **Mathematical Analysis and Computation Finance group** consists of 8 researchers whose expertise relies on a strong quantitative background that allows tackling open questions in a set of diversified pure and applied domains that nowadays require an exigent mathematical framework.

In mathematical finance: nonlinear Black-Scholes equation and option pricing with transaction costs; stochastic analysis, control theory and optimal stopping problems, and applications to portfolio theory, option pricing, and real options; risk measures in complex markets; numerical and mathematical analysis of partial integro-differential equations and delay differential equations in option pricing with memory effects; parallel solution methods for linear systems that enable to overcome the curse of dimensionality in financial applications.

In mathematical analysis with applications to Economics, Finance, Medicine and Physics: combinatorial game theory concerning impartial games and the generation of all complete lattices with a well-chosen initial set of combinatorial games; approximation of parabolic PDEs arising in finance; evolution equations associated with strongly continuous Markov processes and controlled versions of such equations, with optimal control problems in view; numerical and mathematical analysis of partial differential equations of elliptic/parabolic type; parallel solution methods for linear systems arising in the solution of partial differential and integro-differential equations with biomedical applications; dispersive differential equations with quantum mechanics and dynamics of wave propagation in dispersive media in view.

2.5. Microeconomics

The **Microeconomics group** consists of 19 researchers, and most of them are also full-time lecturers at public universities. The group conducts both theoretical and applied research using lab and field experimental methods and non-experimental survey data. Three research areas have been particularly productive.

In Urban Economics, with focus on transport (efficiency and distributional effects of transportation policies on urban form and mode choices; linkages between transport investment, agglomeration economies, and economic performance) and on regional development (causes of spatial disparities in regional development and socio-economic outcomes). Previous work resulted in an extensive list of publications and in the near future, the group aims at examining the relationship between the expansion of the road network and the urban spatial structure in Portugal over the last 30 years.

In the field of Behavioural and Experimental Economics, previous work dealt with testing matching mechanisms in the lab, as well as investigating the role of information in coordination,

cooperation, and competition games. Also, field and lab experiments investigate gender differences in economic decision-making and explore various institutional and policy interventions that possibly reduce the gender gap inefficiencies in labour markets. For the near future, the group aims at linking overconfidence to other aspects of decision-making and real world outcomes, with a focus on information processing and group dynamics. These experiments will be conducted at XLAB – Behavioural Research Lab.

At last, International Trade, whose main contributions focus on multi-country dynamic trade models to study entry and exit from export markets, on the relevance of geography for multinational production, on exporters´ strategies, and on the effects of managers' mobility on trade performance. For the near future, we aim at quantifying the effects of trade and labour market integration in the context of economic integration.

2.6. Statistics and Actuarial Science

The **Statistics and Actuarial Science group** is composed of 13 researchers, 9 of whom are also full-time lecturers at ISEG.

In this group, we explore a variety of themes, such as uncertainty quantification and model selection/hypotheses testing using a Bayesian approach. Current projects in this line involve the application of uncertainty quantification techniques to economic models and Bayesian hypotheses testing in the context of proportions. In another ongoing project, we focus on bivariate counting distributions with the objective of modelling dependence of risks in actuarial science and its implications on ratemaking. Yet another research topic focuses on the optimal reinsurance strategy from the cedant's point of view when the risks for which reinsurance is sought are dependent. In this topic, we consider several optimization criteria, from single to multi-period models, and use approaches related to the theory of stochastic control. Finally, there are several ongoing projects in the area of ruin theory.

3. Publications
a) Articles

In 2022 REM published 126 articles in peer reviewed journals, as listed in the Appendix. REM members published in several **top journals** such as:

Economic Journal
Dynamic Games and Applications
Energy Economics
Ergodic Theory and Dynamical Systems
European Journal of Operational Research
Experimental Economics
Industrial and Corporate Change
Journal of Business and Economic Statistics
Journal of Development Economics
Journal of Economic Dynamics and Control
Journal of International Money and Finance
Journal of Money, Credit and Banking

Journal of Political Economy
Journal of Statistical Physics
Journal of the American Statistical Association
Oxford Bulletin of Economics and Statistics
Research Policy
Urban Studies

  b) Working papers

REM published 43 WPs in 2022, in its WP Series and at the date of the Report, published 43 WP in 2023. (rem wps)

REM WPs are indexed in IDEAS/EconPapers: ideas

The Figure below contains access statistics for REM's Working Paper Series (up to September 2023).

Access Statistics for Working Paper Series

Working Paper Series	File Downloads				Abstract Views			
	2023 09	3 months	12 months	Total	2023 09	3 months	12 months	Total
Working Papers REM ISEG - Lisbon School of Economics and Management, REM, Universidade de Lisboa	55	193	1,256	8,067	206	518	2,411	17,998

There are currently 287 items in this series, of which 287 are downloadable.
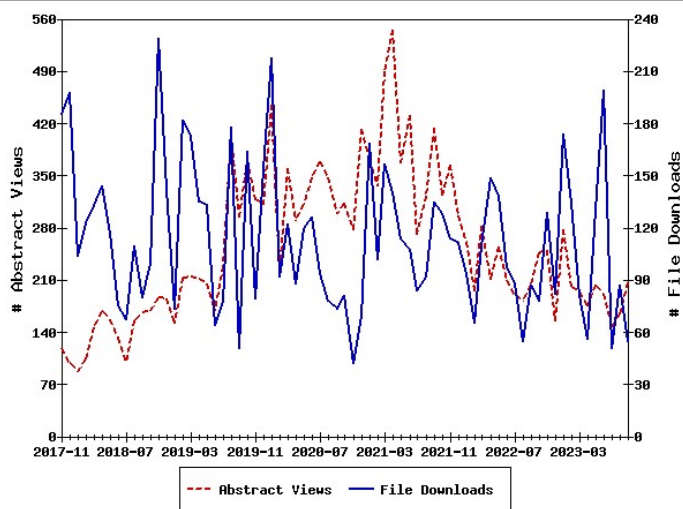
4. Conferences, seminars and workshops

Afonso, A., Alves, J., Jalles, J.
10th UECE Conference on Economic and Financial Adjustments. July 22, 2022. ISEG/UL Lisbon, Portugal. Link to conference

Workshop from project TiTuSS: Transportes, Território e Economia, September 21, 2022.

On the profitability of selfish blockchain mining under consideration of ruin - 25/05/2022 - 11h, 25 May

Congresso 75 anos IAP, 24 May 2022

FIMA 2022 - On the interplay between Finance and Insurance Mathematics, 23-24 May

New trends in Lyapunov exponents, 7-11 February 2022

Lisbon Economics and Statistics of Education, 20-21 January 2022

5. Ph.D. programs

REM currently hosts together with ISEG several Doctoral programs, notably: Economics; Applied Mathematics for Economics and Management; and Development Studies.

The (co-)coordination of these three programs is done by REM members while the teaching of the first two programs is also mainly done by REM members. In addition, REM is also linked to the Ph.D. in Management and to the Ph.D. in Economic and Social History as one of the host institutions.

The Ph.D. courses have been accredited for six years by the Portuguese national agency A3ES ("Agência de Avaliação e Acreditação do Ensino Superior", Agency for Assessment and Accreditation of Higher Education - A3ES). The PhD in Economics and the PhD in Applied Mathematics for Economics and Management were accredited for six years in 31/7/2020. The PhD in Management was also accredited for six years after 2019.

Ph.D. in Economics

The Ph.D. in Economics is designed for those who are looking for an advanced education and wish to carry out research in Economics, macro- or micro-related, in preparation for a highly qualified role in the public or private sector, university teaching and research, the leadership and management of national and international organizations, consulting, training, and research projects and studies. It is a research-focused plan that prepares for a profession that demands a high level of technical and scientific qualification, enabling graduates notably to pursue an international career.

Ph.D. in Applied Mathematics for Economics and Management

The Ph.D. in Applied Mathematics for Economics and Management is designed to meet the needs of those who wish to enhance their proficiency of mathematical methods and techniques in order to make original contributions in the fields within the scope of knowledge of this Ph.D. Programme or to develop and implement solutions for problems in the areas of Economics and

Management. It targets both those who want to pursue an academic career and professionals who want to develop the skills to devise and implement innovative quantitative approaches for real-world problems.

<u>Ph.D. in Development Studies</u>

The Ph.D. in Development Studies is a research-focused program in the interdisciplinary area of the process of economic, social and political changes in modern societies. This program, originally hosted by ISEG, became after 2017/18 a joint PhD of ISEG (School of Economics and Management), ICS (Institute of Social Sciences), IGOT (Institute of Geographic and Spatial Planning) and ISA (School of Agriculture) of Universidade de Lisboa, with some changes in its content, recently approved by the national agency A3ES.

6. Recent funded research projects

FCT research projects in REM

UECE as Principal Organization

- *PTDC/EGE-ECO/28814/2017 - Markups, Fluctuations, and Financial Frictions*
Oct 1, 2018 - Sep 30, 2022, Principal Researcher Luís Costa. Funding €239.543,00
Luís Costa (UECE) - PI, Paulo Brito (UECE) - Co-PI, Carlos Santos (Nova SBE), Cláudia Custódio (Imperial College B.S.), Huw Dixon (Cardiff B.S.)

- *PTDC/EGE-ECO/28805/2017 - Transport Infrastructure and Urban Spatial Structure: Economic, Social and Environmental Effects*
Oct 1, 2018 - Mar 31, 2022, Principal Researcher Patrícia Melo. Funding €229.539,27
Patrícia Melo (UECE) - PI, João de Abreu e Silva (IST-ID) - Co-PI, Sofia Franco (UECE and NOVA SBE), Marcos Correia (IST-ID)

- *PTDC/EGE-IND/31081/2017 - Firms, competition and social welfare in a global economy*
Oct 1, 2018 - Sep 30, 2022, Principal Researcher Filomena Garcia. Funding €239.990,02
Filomena Garcia (UECE) - PI, Gustavo Torrens (Indiana University) - Co-PI, Jose Manuel Paz y Mino (Indiana University), Cecilia Vergari (Università di Bologna), Joana Resende (FEUP), Muxin Li (Indiana University)

- *PTDC/GES-GCE/4046/2021 - Transport Infrastructure and Urban Spatial Structure: Economic, Social and Environmental Effects*
Mar 1, 2022 - Fev 28, 2025, Principal Researcher Patrícia Melo. Funding €153.304,56

- *PTDC/EGE-ECO/5020/2021 - Representação feminina e dinâmicas do mercado laboral: uma abordagem experimental*
Jan 1, 2022 - Dez 31, 2024, Principal Researcher Sandra Maximiniano. Funding €243.391,87

- *2022.01500.PTDC - Os impactos socioeconómicos da migração de retorno*
01 fev 2023 - 31 jul 2024. Principal Researcher João Pereira do Santos. Funding €49.437,87

- *2022.09333.PTDC - Percepções de (in)justiça: mercado trabalho, políticas contra a discriminação e algoritmos*

01 fev 2023 - 31 jan 2026. Principal Researcher Joana pais. Funding €212.816,27

UECE as Participating Organization

- *PTDC/EGE-ECO/29365/2017 - Welfare Intervention by the State and Economic Resilience in Portugal*

15 Out 2018 – 14 Out 2022. Principal Researcher Marta Simões. Funding €8762,50
Marta Simões (Universidade de Coimbra) - PI, Co-PI - Adelaide Duarte (Universidade de Coimbra); João de Sousa Andrade (Universidade de Coimbra); Sílvia Sousa (Universidade do Minho); Maria Teresa Garcia (UECE)

- *PTDC/GES-TRA/3353/2020 - Mobility as a Service and Socio-Territorial Inequalities*

01 Mar 2021 – 29 Fev 2024. Principal Researcher David Vale. Funding €41591,70€
David Vale (Faculdade de Arquitectura da Universidade de Lisboa) - PI, Filipe Moura (Co-PI), Cristina Henriques, Cristina Cavaco, João Santos, Luís Carvalho, Patrícia Melo (UECE), Rosa Félix, Vítor Escária (UECE).

- *PTDC/ECI-TRA/4841/2021 – Repensar a Mobilidade, Padrões de Localização e Forma Urbana no Pós Pandemia de Covid-19. Os Efeito do Teletrabalho e E-shopping*

02 Jan 2022 – 01 Jan 2025. Principal Researcher João de Abreu e Silva. Funding €245.592,15
João de Abreu e Silva (instituto Superior Técnico – ID) – PI, (IGOT), Patricia Melo (UECE).

CEMAPRE as Principal Organization

- *PTDC/MAT-STA/7455/2020 - Análises de dados longitudinais de grande volume em Educação*

Sept 1, 2020- Aug 2023, Principal Researcher Maria Eugénia Ferrão. Funding: 173.364,00€
Maria Eugénia Ferrão (CEMAPRE) – PI, Co-PI Paulo Fazendeiro e Maria Sousa (Instituto de Telecomunicações)

- *PTDC/EGE-IND/2175/2020 - Medição e mitigação do risco climático: uma abordagem financeira*

Sept 1, 2020- Aug 2023, Principal Researcher Carlos Oliveira. Funding: 152.451,33€
Carlos Oliveira (CEMAPRE) – PI, Co-PI - Manuel Guerra (CEMAPRE)

- *PTDC/EGE-ECO/7850/2020 - Acessibilidade aos Cuidados de Saúde dos Idosos Portugueses – Uma análise Económica Espacial*

Principal Researcher Isabel Proença (CEMAPRE). Funding € 135.487,58
Isabel Proença (CEMAPRE) – PI, Co-Pi - Felipa Sampayo (ISCTE)

- EXPL/EGE-ECO/0886/2021 - Optimal-Re: Optimal reinsurance with dependencies

PI: Alexandra Moura. Total Funding: 49 836.62€
01/01/2022 to 31/12/2023

- EXPL/EGE-IND/0351/2021 - Sustainable Management of Fisheries with Stochastic Differential Equations

PI: Nuno Brites. Total Funding: 31765€
01/01/2022 to 30/06/2023

CEMAPRE as Participating Organization

- *PTDC/MAT-PUR/29126/2017 – ExLy: New trends in Lyapunov exponents*

Sep 1, 2018 - Aug 31, 2021. Principal Researcher Pedro Miguel Nunes da Rosa Dias Duarte (FCiências ID). Funding €231.546,68
Pedro Miguel Duarte (FCiencias ID) – PI, Co-PI - João Lopes Dias (CEMAPRE-ISEG/ULISBOA), Universidade da Beira Interior (UBI), Universidade do Minho (UM).

- *POCI-01-0145-FEDER-028234 – VOLANTIS: Advances in Nonlinear Time Series Econometric Modelling and Applications*

Oct 1, 2018 - Sep 30, 2021. Principal Researcher Cristina Alexandra de Oliveira Amado (Universidade do Minho). Funding €173.245,62
Cristina de Oliveira Amado (Universidade do Minho) – PI, Co-PI - Esmeralda A. Ramalho (CEMAPRE-ISEG/ULISBOA).

- *PTDC/MAT-PUR/1788/2020 – Sistemas Dispersivos e Elípticos Não Lineares – novos horizontes em regularidade, dinâmica e análise assintótica*

Mar 01, 2021 - Feb 29, 2024. Principal Researcher Hugo Ricardo Nabais Tavares (IST- ID).
Funding €249.512,18
Hugo Ricardo Nabais Tavares (IST- ID) – PI, Filipe Oliveira (CEMAPRE-ISEG/ULISBOA), FCiências.ID

- *PTDC/SAU-DES/4753/2020 - Atividade Física e Regulação da Saúde Musculosquelética em Mulheres com Terapia Hormonal para o Cancro da Mama*

Principal Researcher Maria Batista (CIPER/FMH/ULisboa). Funding € 249.552,50€
Maria Batista (CIPER/FMH/ULisboa) - PI, Co-Pi, Nicoletta Rosati (CEMAPRE)

- *PTDC/HAR-HIS/7627/2020 - Ensinamentos a partir dos mercados de capitais de uma economia periférica: Portugal, 1837-1913*

Principal Researcher Rita Sousa. Funding € 234.633,49€
PI - Rita Sousa, Co-Pi, Pedro Neves, Maria Dias (GHES/ISEG/ULisboa) e Nuno Sobreira (CEMAPRE).

- *PTDC/EMD-EMD/1230/2021 - Fluid-structure interaction for functional assessment of ascending aortic aneurysms: a biomechanical-based approach toward clinical practice*

Principal Researcher José Xavier. Total Funding: 249.371,00€
01/01/2022 to 31/12/2024

- *Os benefícios sociais e económicos da igualdade salarial entre mulheres e homens*

Principal Researcher Heloísa Perista
Financiador: Comissão para a Cidadania e Igualdade de Género - EEA Grants. Total Funding: 59995,20€
15/09/2020 to 15/03/2022

- *PTDC/MAT-PUR/29126/2017 - ExLy: New trends in Lyapunov exponents*

Principal Researcher Pedro Miguel Nunes da Rosa Dias Duarte. Total Funding 231.546,68€
01/09/2018 - 30/06/2022

- *PTDC/GES-GCE/4046/2021 - Crescimento ou Relocalização? O papel da acessibilidade na localização da atividade económica da escala micro à macro*

Principal Researcher Patrícia Sofia Coelho de Melo. Total Funding: 35239,37€
1/9/2022 to 31/8/2025

- *PTDC/MAT-PUR/1788/2020 - Sistemas Dispersivos e Elípticos Não Lineares- novos horizontes em regularidade, dinâmica e análise assintótica"*

Principal Researcher Hugo Ricardo Nabais Tavares

7. REM Award

REM – Research in Economics and Mathematics, launched in 2019 the **REM Young Researcher Award**, with a monetary value of 1000 EUR. The prize awards the best Master thesis defended at ISEG, until 31st December of the civil year, and whose supervisor is a member of REM in one ISEG Master courses. A jury set up for the purpose will make the selection. The members of the jury are a member of REM, who will preside, and two other researchers from other Universities.

Award recipients

2022

Prize recipients (ex-aequo)	Thesis	Supervisors	Master Course
Daniel Baptista	STOCHASTIC DIFFERENTIAL EQUATIONS DEATH RATES MODELS: THE PORTUGUESE CASE	Nuno Brites	Actuarial Science
Gabriela Fraga	GOVERNMENT SPENDING EFFICIENCY IN LATIN AMERICA	António Afonso	Economics
Miguel Reis	STOCHASTIC DIFFERENTIAL EQUATIONS HARVESTING MODELS: SIMULATION AND NUMERICAL SOLUTION	Nuno Brites	Mathematical Finance

8. Staff

REM Executive board

António Afonso, Principal Researcher, President of REM
Manuel Guerra, Board member
Teresa Garcia, Board member

CEMAPRE Board

Manuel Guerra, Scientific Coordinator
Alexandra Moura, Board member
Paulo Parente, Board member
Raquel Bernardino, Board member
João Janela, Board member

UECE Board

António Afonso, Principal Researcher, President of UECE
Cândida Ferreira, Board member
Teresa Garcia, Board member

Members

Ana Paula Fernandes
Ph.D. in Economics, University of Essex, UK (2007)
International Trade, Global Value Chains, Development Economics, Labor Economics, Industrial Organization, Applied Microeconomics

Ana Sofia Monteiro
PhD in Economics, Faculty of Economics - University of Coimbra, Portugal (2022)
Financial economics, econometrics, portfolio management, sustainability in finance, sovereign risk, and sovereign debt dynamics

Adriana Cornea-Madeira
Doctorate, Economy, Economics, Aix-Marseille U., France (2008)
Bootstrap, time series, COVID, macroeconomics, finance

Agnieszka Bergel
Doutoramento em Matemática Aplicada à Economia e Gestão, Universidade de Lisboa, Portugal (2013)
Actuarial science, statistics, risk theory, financial mathematics

Alberto Lopez Martín
Doutoramento em matemática, Universität Zürich, Switzerland (2010)
Algebraic/tropical geometry, auction and matching theory, combinatorial optimization

Alda Carvalho
Doutoramento em Matemática Aplicada à Economia e Gestão, Universidade Técnica de Lisboa, Portugal (2010)
Time series

Alexandra Moura
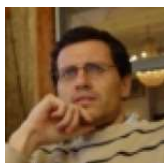Dottore di Ricerca in Mathematical Engineering, Politecnico di Milano, Italy (2007)
Applied Mathematics, Mathematical Engineering, Numerical Analysis, Statistics and Actuarial Sciences

Alfredo D Egídio dos Reis

PhD in Actuarial Mathematics and Statistics, Heriot-Watt University, UK (1994)

Actuarial science, risk theory, credibility theory, ruin theory

Álvaro Novo

PhD in Economics, University of Illinois at Urbana-Champaign, USA (2001)

Labor economics

Álvaro Manuel Pina

PhD in Economics, European University Institute, Italy (2001)

Fiscal policy in the European Monetary Union, Fiscal rules and institutions, Monetary integration and business cycles, macroeconomic modelling

Amélia Bastos

Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (1999)

Social economics, poverty and social exclusion, child poverty

António Afonso

Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (2002)

Applied Economics, Public Finances, Financial Economics, Fiscal Policy

Bruno T. da Rocha

PhD in Economics, University of Essex (2014)

Transport infrastructure and economic geography, systemic banking crises, quantitative economic history, comparative economics

Cândida Ferreira

Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (1996)

Monetary and Financial Economics, Financial Markets and the Macroeconomy, Financial Integration

Carlos Daniel Santos

PhD in Economics, London School of Economics and Political Science – University of London, UK (2008)

Data Science, Economics, Econometrics, Quantitative Marketing. Sub-areas: Firm dynamics, Productivity, Customer Markets.

Carlos Farinha Rodrigues

Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (2005)

Distribuição do Rendimento, Desigualdade e Pobreza; Política Social, Avaliação de Políticas Públicas, Redistribuição do Rendimento, Microsimulação de Políticas Sociais e Fiscais.

Carlos Oliveira

Doutoramento em Matemática, Instituto Superior Técnico, Portugal (2018)

Real Options Valuation, Optimal Stopping, Stochastic Optimal Control, Statistics and Actuarial Sciences

Caterina Mendicino

PhD in Economics, Stockholm School of Economics, Sweden (2006)

Macro-Financial Linkages, Monetary and Macro-Prudential Policy, General equilibrium models of banks and of the credit channel transmission mechanism

Esmeralda A Ramalho

PhD in Economics, University of Bristol, UK (2002)

Microeconometrics

Fernando F Gonçalves

PhD in Mathematics and Statistics, University of Edinburgh, UK (2007)

Financial mathematics and applied econometrics

Fernando Martins

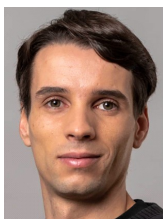Doutoramento em Economia, Universidade de Lisboa, Portugal (2015)

Microeconomics

Filipe Oliveira

Docteur en Mathématiques, Université Paris XI, France (2001)

Partial Differential Equations

Filipe Rodrigues

Programa doutoral em Matemática Aplicada das Universidades Minho, Aveiro e Porto, Aveiro, Portugal (2019)

Optimization under uncertainty, Robust optimization, Stochastic Programming, Maritime transportation and port planning operations

Filomena Garcia

Docteur en Sciences Économiques, Université Catholique de Louvain, Belgium (2006)

Industrial Organization, Game Theory, Matching, Networks, Banking, Economics of Education

Francisco Louçã

Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (1996)

Macroeconomic dynamics, Complexity, Evolutionary economics, History of economic thought

Francisco Nunes

Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (2005)

Pobreza e Exclusão Social, Sistemas de Segurança Social, Solidariedade e Acção Social, Protecção Social, Rendimento Mínimo Garantido

Graça Leão Fernandes

Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (1992)

Labour market

Inês Cabral

PhD in Mathematics, Instituto Superior de Economia e Gestão, Portugal (2020)

Hugo Confraria

PhD in Economics and Governance, Maastricht University – The Netherlands (2019)

Economics of Innovation, Economics of Science, Scientometrics

Isabel Proença

Docteur en Sciences Économiques, Université Catholique de Louvain, Belgium (1995)

Microeconometrics, models for discrete responses, panel data, bootstrap methods

Ivo Tavares

Doutoramento em Matemática Aplicada à Economia e à Gestão, ISEG, Universidade de Lisboa, Portugal (2021)

Statistics

Joana Pais

Doctor en Economia, Universitat Autònoma de Barcelona, Spain (2005)

Game theory, Matching theory, Auction theory

João Andrade e Silva

Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (1991)

Actuarial science

João Afonso Bastos

Doutoramento em Física, Universidade de Coimbra, Portugal (2003)

Data Science, Machine Learning, Financial Economics

João Dias

Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (1993)

Statistics, econometrics

João Ferreira do Amaral

Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (1984)

Macroeconomics, Leontief theory, input/output, Information

João Janela

Doutoramento em Matemática, Universidade Técnica de Lisboa, Portugal (2008)

Numerical analysis

João Carlos Lopes

Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (1996)

Input-Output Analysis and Portuguese Economy

João Lopes Dias
PhD in Mathematics, University of Cambridge, UK (2002)
Dynamical systems, renormalisation, generic conservative dynamics

João Nicolau
Doutoramento em Matemática Aplicada à Economia e Gestão, Universidade Técnica de Lisboa, Portugal (2001)
Estimation of stochastic differential equations, volatility of financial time series, non-linear time series

João M E Guerra
Doctor en Matemàtiques, Universitat de Barcelona, Spain (2009)
Stochastic Analysis and Mathematical Finance

João Pereira dos Santos
Doutoramento em Economia, Nova SBE, Portugal (2021)
Economia Pública, Econometria Aplicada, Economia Política

João Tovar Jalles
PhD in Economics, University of Cambridge, UK (2011)
Macroeconomics, Applied Econometrics, Public finance, Strutural reforms, Forecasting, Energy Economics

Jorge Caiado
Doutoramento em Matemática Aplicada à Economia e Gestão, Universidade Técnica de Lisboa, Portugal (2006)
Time series, forecasting methods, applied econometrics

Jorge Santos
PhD in Economics, University of Kent, UK (1984)
Macroeconomics

José Alves
PhD in Economics, Lisbon School of Economics and Management - University of Lisbon, Portugal (2019)
Macroeconomics, Public Finances, Fiscal Policy

Jose Carlos Coelho
PhD in Economics, ISEG, Lisbon School of Economics & Management (2019)
Applied Macroeconomics, Input-Output Analysis

José Passos
PhD in Economics, University of Bristol, UK (1997)
Microeconometrics, data analysis

José Pedro Gaivão
PhD in Mathematics, University of Warwick, UK (2010)
Dynamical systems, Hamiltonian dynamics

José Pedro Pontes
Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (1987)
Regional and Urban Economics, International Economics, Industrial Organization, Non-cooperative Game Theory

Leonor S Pinto
Doutoramento em Matemática Aplicada à Economia e Gestão, Universidade Técnica de Lisboa, Portugal (2004)

Luca David Opromolla
PhD in Economics, New York University, USA (2006)
International Trade, Industrial Organization, Labor Economics

Luis Catão
PhD in Economics, University of Cambridge, UK (1992)
International finance and open economy macroeconomics

Luís Costa
DPhil in Economics, University of York, UK (2001)
Dynamic general-equilibrium models, Fiscal policy, Business cycles, Industrial organisation-macroeconomics interactions, Open-economy macroeconomics

Luís Santos

PhD in Econometrics, Universidade de Lisboa, Portugal (2020)

Spatial Econometrics, Microeconometrics, Applied Econometrics

Manuel Guerra

Doutoramento em Matemática, Universidade de Aveiro, Portugal (2001)

Control theory

Manuel M. Godinho

PhD in Science and Technology Policy, University of Sussex, UK (1995)

research interests

Margarida Abreu

Docteur en Sciences Economiques, Universite Paris-Nanterre, France (1997)

Behavioral Finance, Financial Economics, Financial Markets, Investors Behavior, Monetary Policy, European Monetary Union

Maria de Fátima Fabião Ribeiro

Doutoramento em Matemática Aplicada à Economia e Gestão, Universidade Técnica de Lisboa, Portugal (2005)

Financial mathematics, delay differential equations

Maria de Lourdes Centeno

PhD in Actuarial Science, Heriot-Watt University, UK (1985)

Reinsurance, credibility theory, bonus systems, loss reserving, ruin theory

Maria do Rosário Grossinho

Doutoramento em Matemática, Universidade de Lisboa, Portugal (1988)

Differential equations and financial mathematics

Maria Eugénia Ferrão

Doutoramento em Teoria de Controle e Estatística, Pontifícia Universidade Católica do Rio de Janeiro, Brazil (1999)

Social Statistics

Mário Centeno

PhD in Economics, Harvard University, USA (2000)

Microeconomics

Miguel St. Aubyn

PhD in Economics, University of London, UK (1995)

Applied Macroeconomics, Budgetary Policy, Economic Growth, Efficiency Measurement

Nicoletta Rosati

Dottore di Ricerca in Statistica Applicata, Università degli Studi di Padova, Italy (2001)

Econometrics of panels and pseudo-panels, non-linear microeconometric models, health and medical statistics.

Nikolay Iskrev

PhD in Economics, University of Michigan, USA (2008)

Econometrics, macroeconomics, monetary policy

Nuno Brites

Doutoramento em Matemática (especialidade em Estatística), Universidade de Évora (2017) *Stochastic Differential Equations, Stochastic Optimal Control, Fisheries Management, Software development in R, Phyton, Matlab and STATA*

Nuno Crato

PhD in Applied Mathematics, University of Delaware, USA (1992)

Time series, stochastic processes

Nuno Sobreira

Doutoramento em Economia, Nova School of Business and Economics, Portugal (2012)

Structural breaks, economic forecasting, realized and stochastic volatility, unit roots, cointegration, long memory

Onofre Simões

Doutoramento em Organização e Gestão de Empresas, Universidade Técnica de Lisboa, Portugal (1997)

Actuarial science, financial mathematics

Patricia Costa,
Doutoramento em Engenharia Industrial e de Sistemas, Universidade do Minho, Portugal (2011)
Psychometrics, Quantitative Research, Educational Assessment, Comparative Education

Patricia Melo
PhD in Economics, Imperial College London, UK (2010)
Economic geography

Paula Fontoura
Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (1990)
International Trade, Economic Geography, Foreign Direct Investment

Paulo Bastos
PhD in Economics, University of Nottingham, United Kingdom (2007)
International Economics, Development Economics, Labor Economics, Industrial Organization, Applied Microeconomics

Paulo Brito
Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (1995)
Macroeconomics

Paulo Parente
PhD in Economics, University of Warwick, UK (2007)
Econometric theory

Paulo Trigo Pereira
PhD in Economics, University of Leicester, UK (1994)
Acção colectiva, Economia das instituições, Economia experimental, Finanças locais, Escolha pública

Pedro Leão
Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (1998)
Macroeconomics, International Economics

Pierre Hoonhout
PhD in Economics, University College London, UK (2011)
Econometrics

Raquel Bernardino
PhD in Operations Research, Faculdade de Ciências da Universidade de Lisboa, Portugal (2019)
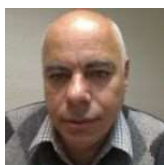*Combinatorial Optimization, Metaheuristics*

Raquel M Gaspar
PhD in Finance, Stockholm School of Economics, Sweden (2006)
Mathematical finance, Term Structure Models, Interest rate & Credit Risk Models, Convexity Adjustments, Structured Products

Raul Bras
Doutoramento em Matemática Aplicada à Economia e à Gestão, Universidade Técnica de Lisboa, Portugal (2013)
Combinatorial optimization, computer science

Ricardo Cabral
Doutoramento em Economia, Universidade da Carolina do Sul, EUA (1998)
Applied Economics and Methods

Rosa Borges
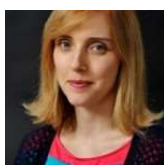Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (2001)
Capital Markets, Dividend and taxes, Capital Markets Efficiency, Bank and Assurance, Financial System and Risk, Financial Economics

Rui Paulo
PhD in Statistics, Duke University, USA (2002)
Bayesian Inference, statistical analysis of computer models, Bayesian computation

Sandra Gomes
PhD in Economics, ISEG/Universidade de Lisboa (2014)
International economics, Bayesian estimation, Macroeconomics, DSGE modelling

Sandra Maximiano

PhD in Economics, University of Amsterdam, The Netherlands (2007)

Behavioral Economics, Experimental Economics, Public Economics, Economics of Gender, Organizational and Personal Economics, Economics of Piracy

Sofia Franco

PhD in Environmental Science and Management, University of California in Santa Barbara, USA (2007)

Urban Economics, Land Use, Spatial and Dynamic Modelling, Transportation

Susana Santos

Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (1999)

Social and National Accounting, SAM-based Macro-modelling, Sustainable Developme

Tanya Araujo

Doutoramento em Matemática Aplicada, Universidade Técnica de Lisboa, Portugal (1995)

Computational Economics and Finance, Agent-based Modeling, Network structure and dynamics

Telmo Peixe

Doutoramento em Matemática, Universidade de Lisboa, Portugal (2015)

Hamiltonian Dynamics, Game Theory, Lotka-Volterra Systems, Replicator Equation

Teresa Garcia

Doutoramento em Economia, Universidade Técnica de Lisboa, Portugal (2001)

Pension economics and finance, applied economics, microeconomics and financial economics

Management Support

Brigitte Ferreira

Karina Branco

Social media

Olaf Ghanizadeh

Annex – publications

Afonso, A., (2022) Current Account Targeting Hypothesis versus Twin Deficit Hypothesis: the EMU experience of Portugal, Cuadernos de Economia, 1-31.

Afonso, A., Jalles, J., Venâncio, A. (2022). Does the Introduction of Stock Exchange Markets Boost Economic Growth in African Countries? *International Journal of Political Economy,* 1-14.

Afonso, A., Leão, E., Tiny, D., Bhimjee, C. (2022). Fiscal Sustainability in the PALOP Economies, *Notas Económicas*, forthcoming. 1-16.

Afonso, A., Fortes, E. (2022). Corruption and economic growth: does the size of the government matter? *Economic Change and Restructuring,* forthcoming.

Afonso, A., Jalles, J. (2022). Do Financial Markets Reward Government Spending Efficiency? Journal of International Financial Markets, Institutions and Money, 1-21.

Afonso, A., Huart, F., Jalles, J., Stanek, P. (2022)**.** Twin Deficits Revisited: a role for fiscal institutions? *Journal of International Money and Finance*, 1212, 102506.

Afonso, A., Coelho, J. (2022). The Role of Fiscal Policies for External Imbalances: Evidence from the European Union, *Economic Systems*, forthcoming.

Afonso, A., Blanco-Arana, M. C. (2022). Financial Development and Economic Growth: A Study for OECD Countries in the Context of Crisis, International Economic Journal, 169, 30-42.

Afonso, A., Jalles, J., Alves, J. (2022) Fiscal Reaction Functions in the EU: a tale of "r-g" and whether it matters, Révue Française d' Économie, XXXVI, 1-37.

Afonso, A., Kazemi, M. (2022). Sovereign Bond Yield Spreads Spillovers in the EMU, *International Journal of Finance and Economics*, 27 (2), 2615-2626.

Afonso, A, Jalles, J., Alves, J. (2022). To consolidate or not to consolidate? A multi-step analysis to assess needed fiscal sustainability, International Economics, 172, 106-123.

Afonso, A., Alves, J. (2022). Are fiscal consolidation episodes helpful for public sector efficiency? Applied Economics, forthcoming, 1-14.

Abreu, M., (coautoria com Apolónia, J.). (2022). Is Bitcoin a god investment asset? *EUROPEAN REVIEW OF BUSINESS ECONOMICS* I (2).

Afonso, A., Fortes, E. (2022) Corruption and economic growth: does the size of the government matter? Economic Change and Restructuring, 1-34.

Afonso, A., PK Opoku. (2023) THE NEXUS BETWEEN FISCAL AND CURRENT ACCOUNT IMBALANCES IN OECD ECONOMIES. Applied Economics, 1389-1406.

Afonso, A., Carvalho, F. (2022) Euro area time-varying cyclicality of fiscal policy. North American Journal of Economics and Finance. 62, 1-26.

Afonso, A., Jalles, J., Venter, Z. (2022). Minimum Wage and Collective Bargaining Shocks: A Narrative Database for Advanced Economies. IZA Journal of Labor Policy (forthcoming) 1-19.

Afonso, A., Coelho, J.C. (2022) Fiscal and current account imbalances: the cases of Germany and Portugal. The World Economy 1-24. https://doi.org/10.1111/twec.13528.

Afonso, A. Coelho, J. (2022) Public finances solvency in the Euro Area: true or false. Economic Analysis and Policy, 1-16 (forthcoming).

Rocha, B., Melo, P.C. Afonso, N., Abreu e Silva, J. (2022) What drives the allocation of motorways? Evidence from Portugal's fast-expanding network. Journal of Transport Geography. 102, (103384), 1-13.

Rocha, B. (2022) Long-run suburbanization trends in Portugal. Regional Studies, Regional Science. 9 (1) 513-515.

Jalles, J., Gupta, S. Do Tax Reforms affect Income Distribution? Evidence from Developing Countries. Economic Modelling, 110 (2022)

Jalles, J., Gupta, S. Can Covid-19 Induce Governments to Implement Tax Reforms in Developing Countries? Applied Economics. 54, (20), 2288-2301 (2022)

Jalles, J., Cevik, S. An Apocalypse Foretold: Climate Shocks and Sovereign Defaults. Open Economies Review, 33, 89-108 (2022)

Jalles, J., Marto, R., Loungani, P., Cohen, G., Pizzuto, P. Trend and Cycles in CO_2 Emissions and Growth: Cross-country Evidence on Decoupling. Journal of Macroeconomics, 71 (2022)

Jalles, J., Karras, G. Private and Public Consumption: Substitutes or Complements? Oxford Economic Papers. 74 (3), 805-819 (2022)

Jalles, J., Furceri, D., Duval, R. Labor and Product Market Reforms and External Imbalances: Evidence from Advanced Economies. Journal of International Money and Finance (2022)

Jalles, J., Furceri, D., Choi, S. Heterogeneous Gains from Counter-cyclical Fiscal Policy: New Evidence from International Industry-level data. Oxford Economic Papers. (forthcoming) 1-20. (2022)

Jalles, J., Afonso, A., Stanek, P., Huart, F. Twin Deficits Revisited: A role for Fiscal Institutions? Journal of International Money and Finance. 121 (2022)

Jalles, J., Afonso, A., Venâncio, A. Do Financial Markets reward Public Sector Efficiency? Journal of International Financial Markets, Institutions and Money. 77, 1-14 (2022)

Jalles, J., Cevik, S. This Changes Everything: Climate Shocks and Sovereign Bonds. Energy Economics. 107, 1-15 (2022)

Guerra, A., J. C. Lopes (2022), Jovens Agricultores como Vetores de Inovação em Zonas Rurais: O Papel do Apoio da UE Numa Região Periférica de Portugal, Trás-Os-Montes, RPER - Revista Portuguesa de Estudos Regionais, 61, 85-103. https://doi.org/10.59072/rper.vi61.533

Jalles, J. (2022). Do Credit Rating Agencies reward Fiscal Prudence? International Finance. (forthcoming) 1-20.

Jalles, J., Gupta, S., Liu, J. (2022). Tax Buoyancy in Sub-Saharan Africa and its determinants. International Tax and Public Finance, 29, 890-921.

Jalles, J., Ricardo Marto, Prakash Loungani, Gail Cohen. Emissions and Growth: Trends and Cycles in a Globalized World. Energy Economics, to appear (2021).

Jalles, J. Emissions and Output: Decoupling Evidence from Brazilian States. Journal of Developing Areas, 56 (4), 43-64 (2022)

Afonso, A., Sen, H., Kaya, A. Government Size, Unemployment, and Inflation Nexus in Eight Large Emerging Market Economies. *Review of Public Economics*, to appear (2022).

Leão, P., Leão, E. The Paradox of Investment: A Contribution to the Theory of Demand-Led Economic Growth. Review of Political Economy (2022)

Santos, CD., Costa, L., Brito, P. Demand, Supply, and Markup Fluctuations. The Economic Journal, 132 (644), 1620-1645 (2022)

Santos, CD., Mooi, E., Osinga, E.C. Collaboration scope and product innovation in B2B Markets: Are there too many cooks or is it the customer who spoils the broth. European Journal of Marketing, 56 (3), 899-921 (2022)

Melo, P.C. Will COVID-19 hinder or aid the transition to sustainable urban mobility? Spotlight on Portugal's largest urban agglomeration. Regional Science, Policy & Practice, 14 1, 80-106 (2022)

Melo, P.C., Mogila, Z., Gaspar, J.M. Estimating labour income-based inequality of opportunity for a selection of EU-SILC countries: national and urban-rural perspectives. Regional Science, Policy & Practice, 14 (5), 1158-1187 (2022)

Melo, P.C., Conceição, R., Anciães, P. R., Guiomar, N., Muñoz-Rojas, J. Does road accessibility to cities support rural population growth? Evidence for Portugal between 1991 and 2011. Journal of Regional Science, 62 (2), 443-470 (2022)

Santos, S. An empirical and theoretical approach to a country's economic activity based on a Social Accounting Matrix. An application to Portugal. Bulletin of Applied Economics, 9 (1), 27-37 (2022)

Pereira dos Santos, J., Batalha, M., Gonçalves, D., Peralta, S. The virus that devastated tourism: The impact of covid-19 on the housing market. Regional Science and Urban Economics, 1-20 (2022)

Pereira dos Santos, J., Carvalho, B. P., Peralta, S. Regional and sectorial impacts of the Covid-19 crisis: Evidence from electronic payments. Journal of Regional Science, 62, (3), 639-908 (2022)

Ferreira, C. Determinants of non-performing loans: a panel data approach. International Advances in Economic Research, 28,135-153 (2022)

Ferreira, C. Panel Granger causality between financial development and economic growth. The World Economy (2022) (forthcoming)

Pina, A., Azevedo, N., Mateus, M. Bank credit allocation and productivity: stylised facts for Portugal. Studies in Economics and Finance, 39 (4), 644-674 (2022)

Garcia, F., Panetti, E. Wealth inequality, systemic financial fragility and government intervention. Economic Theory, 1-39 (2022)

Sofia Franco, Bowman W Cutter. The Determinants of Nonresidential Real Estate Values with Special Reference to Local Amenities. Ecological Economics, 201 (2022)

Bastos, P., Artuc, E., Copestake, A., Rijkers, B. Robotsand Trade: Implications for Developing Countries. Robots and AI: A New Economic Era, 232-274 (2022)

Bastos, P., Santos, N. Long-run effects of trade liberalisation on local labour markets: Evidence from South Africa. World Economy, 45 (10), 3059-3079 (2022)

Iskrev, N. On the Sources of Information in the Moment Structure of Dynamic Macroeconomic Models. Journal of Business and Economic Statistics, 119, 318-332 (2022)

Mendicino, C., D'agostino, A., Puglisi, F. Expectation-Driven Cycles and the Changing Dynamics of Unemployment. Journal of Money, Credit and Banking, 54 (7), 2173-2191 (2022)

Cabral, R. The Banking Union and evidence on bail-ins and bailouts. European Financial Management, 28 (4), 1079-1103 (2022)

Louçã, F., Mortágua, M. Social Engineers Changing the World: Tinbergen and Frisch's Framing of Economics, 15 (2). (2022)

Santos, C.D., Assunção, D. Collaboration scope and product innovation in B2B markets: are there too many cooks or is it the customer who spoils the broth? European Journal of Marketing, 56 (3), 899-921 (2022)

Alves, J., Afonso, A. The (non-)Keynesian effects of fiscal austerity: New evidence from a large sample. Economic Systems, 46 (2), 1-16 (2022)

Costa, L., Oliveira Cruz. Impact of alternative concession models on the economic efficiency of road concessions. Case Studies on Transport Policy, 10 (2), 1026-1033 (2022)

Afonso, A., Opoku, K. The nexus between fiscal and current account imbalances in OECD economies. Applied Economics, 1-19. DOI: 10.1080/00036846.2022.2097188 (2023)

Afonso, A., Coelho, JC. Public finances solvency in the Euro Area. Economic Analysis and Policy, (77), 642-657 (2023)

Afonso, A., Jalles, J. Minimum Wage and Collective Bargaining Shocks: A Narrative Database for Advanced Economies. IZA Journal of Labor Policy, 13 (1), 1-18 (2023).

Alves, J., Cevik, S. For Whom the Bell Tolls: Climate Change and Income Inequality. International Monetary Fund, 1-27 (2023)

Alves, J., Couto, C., Coelho, JC. The Impact of Foreign Aid on Aggregate Welfare Measures: A Panel Data Analysis. Journal of the Knowledge Economy, 1-21 (2023)

Alves, J., Afonso, A. Does government spending efficiency improve fiscal sustainability? European Journal of Political Economy, 102403, 1-20 (2023)

Fontoura, P., Castro, I. Improving the air connectivity of hub airports: An Instrument. Journal of Tourism and Development (2023)

Opromolla, L. Pinto, l., Dell'Era, M. Can Optimism Solve the Entrepreneurial Earnings Puzzle? Scandinavian Journal of Economics (2023)

Opromolla, L., Mion, G., Sforza, A. The Value of Managers' Export Experience: Lessons from the Angolan Civil War. The Review of Economics and Statistics (2023)

Opromolla, L., Caliendo, L., Parro, F., Sforza, A. Labor Supply Shocks and Capital Accumulation: The Short and Long Run Effects of the Refugee Crisis in Europe. The American Economic Association Papers and Proceedings (2023)

Bastos, P., Lovo, S., Varela, G., Hagemejer, J. Economic integration, industrial structure, and catch-up growth: Firm-level evidence from Poland. Review of International Economics (2023)

P. Parente and R. J. Smith. Quasi-Maximum Likelihood and The Kernel Block Bootstrap for Nonlinear Dynamic Models. Journal of Time Series Analysis, to appear (2022).

I. Cabral, J. Nicolau and P. P. Ribeiro. Changes in inflation compensation and oil prices: short-term and long-term dynamics. Empirical Economics to appear (2022).

Fernandes, GL, Lopes, MC. Knowledge Management and its Role in Universities as Learning Organisations – the case of ISEG. The IUP Journal of Knowledge Management, vol. XVI, nº 1, 7-19 (2022)

G. Garcia-Donato and R. Paulo. Variable selection in the presence of factors: a model selection perspective. Journal of the American Statistical Association, to appear (2022).

Lopes, J., Oliveira, C., Costa, P. School and student determinants of reading performance: A multilevel analysis with Portuguese students. Revista de Psicodidáctica (2022) doi: 10.1090/tran/8294

Gudmundarson, R.L., Guerra, M., de Moura, A.B. On some effects of dependencies on an insurer's risk exposure, probability of ruin, and optimal premium loading. European Actuarial Journal (2022)

Sousa, R., Guerra, M., Yakubovich, S. Product formulas and convolutions for Laplace-Beltrami operators on product spaces: beyond the trivial case. Mathematische Annalen (2022)

Bernardino, R., Gouveia, L., Paias, A., Santos D. The multi-depot family traveling salesman problem and clustered variants: Mathematical formulations and branch-&-cut based methods. Networks (2022)

Blaskó, Z.; Costa, P. & Schnepf, S. Learning losses and educational inequalities in Europe: Mapping the potential consequences of the COVID-19 crisis. Journal of European Social Policy (2022)

Céu, M.S. and R.M. Gaspar. Vegetative cycle and bankruptcy predictors of agricultural firms. Agricultural Economics 68 (12): 445-454 (2022)

Ferrão, M. E., Costa & P. Couto, A. Territorial differences in educational performance: A Portuguese case study. Revista Portuguesa de Estudos Regionais (2022)

Fernandes, GL; Lopes, MC. The Impact of COVID 19 on Teaching and Learning: The Case of ISEG- Ulisbon. Educational Review, Vol.7 No.7, paper ID: ER-23032901 (2023)

Lopes, J., Guerra, A. Young farmers as innovation enablers in rural areas: the role of the EU's support in a Portuguese peripheric region, Trás-os-Montes. Revista Portuguesa de Estudos Regionais, forthcoming (2022)

J. Lopes, P. S. Martins, C. Oliveira, J. Ferreira, J. T. Oliveira and N. Crato. From A to Z: effects of a 2nd-grade reading intervention program for struggling readers. Revista de Psicodidáctica (2023)

N. Crato. Cómo apoyar y cómo abandonar a los profesores en la batalla por el éxito educativo. La experiencia de Portugal entre 1995 y 2020. Revista Iberoamericana De Educación (2022)

N. Crato. Math curriculum matters: Statistical evidence and the Portuguese experience. European Mathematica Society Magazine (2022) DOI 10.4171/MAG/83

Nicolau, J., Rodrigues P., Stoykov Z. Tail index estimation in the presence of covariates: Stock returns' tail risk dynamics. Journal of Econometrics (2023)

Pina, A., Azevedo, N., Mateus, M. Bank credit allocation and productivity: stylised facts for Portugal | Emerald Insight. Studies in Economics and Finance (2022) forthcoming

Fontoura; P., Castro, I. Improving the air connectivity of hub airports: an instrument to boost the economic performance of EU countries? Review of Tourism and Development (2022) forthcoming

Abreu, M., Paulo Silva e Victor Mendes. The disposition effect among mutual fund participants: a re-examination. The European Journal of Finance, (2022) forthcoming

Nicolau, J., Raposo, P., Rodrigues P. Measuring wage inequality under right censoring. Economic Inquiry (2023)

Zsurkis, G., Nicolau, J., Rodrigues, P. First passage times in portfolio optimization: a novel nonparametric approach. European Journal of Operational Research (2023)

R. Ferreira, V. Móra, M.C. Mourão; M. Moz, L.S.Pinto, J. Ribeiro. Arc routing for parking enforcement officers: exact and heuristic solutions. European Journal of Operational Research (EJOR) (2022)

J.Janela, M.C. Mourão, L.S.Pinto. Arc routing with trip-balancing and attractiveness measures – A waste collection case study. Computers and Operations Research (COR) (2022)

T. G. Alves, A. Bastos, M. E. Ferrão. Escala do índice de exposição da criança à privação material em Portugal: validação e interpretação. Sociedade e Estado (2022)

F. Amaro, A. Bastos, J. Cruz and I. Proença. Mind the Gap: The Effects of Eliminating the Gender Pay Gap on Income and Poverty. Journal of Poverty (2023)

A. L. Péres, Corral, A. Bastos and S. Falcão Casaca. Employment insecurity and material deprivation in families with children in the Post-Great Recession period: An analysis for Spain and Portugal. Journal of Family and Economic Issues (2023)

Evangelista, R., Andrade e Silva, J., Ramalho, E.A. How heterogeneous is the impact of energy efficiency on dwelling prices? Evidence from the application of the unconditional quantile hedonic model to the Portuguese residential market. Energy Economics (2022)

Almeida, J. and R.M. Gaspar. Portfolio performance of European target prices. Journal of Risk and Financial Management, 16 (8), 347 (2023)

Gaspar, R.M. and P.M. Silva. Investors' perspective on portfolio insurance. Portuguese Economics Journal 22 (1), 49-79 (2023)

Rodrigues, F.G. Improved sequential insertion heuristics for berth allocation problems. International Transactions in Operational Research (2023)

Rodrigues, F.G., Agra A. Handling uncertainty in the quay crane scheduling problem: a unified distributionally robust decision model. International Transactions in Operational Research (2023)

Y. T. Izquierdo, G. M. García, E. Menendez, L. A. P. P. Leme, A. Neves, M. Lemos, A. C. Finamore, C. Oliveira and M. A. Casanova. Keyword Search over Schema-less RDF Datasets by SPARQL Query Compilation. Information Systems, to appear (2022).

Rodrigues, F.G., Agra A. Berth allocation and quay crane assignment/scheduling problem under uncertainty: A survey. European Journal of Operational Research (2022)

Agra, A., Rodrigues, F.G. Distributionally robust optimization for the berth allocation problem under uncertainty. Transportation Research Part B (2022)

Rodrigues F, Agra A, Hvattum LM, Requejo C. Weighted iterated local branching for mathematical programming problems with binary variables. Journal of Heuristics (2022)

Bastos, J.A., Matos S.M. Explainable models of credit losses. European Journal of Operational Research (2022)

Bastos, J.A. Predicting credit scores with boosted decision trees. Forecasting, 4(4), 925-935 (2022) https://doi.org/10.3390/forecast4040050

Telmo Peixe and Alexandre Rodrigues. Persistent strange attractors in 3D Polymatrix Replicators. Physica D: Nonlinear Phenomena (2022)

Hassan Najafi Alishah, Pedro Duarte and Telmo Peixe. Asymptotic Dynamics of Hamiltonian. Polymatrix Replicators, Nonlinearity (2023)

Telmo Peixe and Alexandre Rodrigues. Stability of heteroclinic cycles: a new approach based on a Replicator equation. Journal of Nonlinear Science (2023)

Kort, Peter; Lavrutich, Maria; Nunes, Cláudia; Oliveira, Carlos. Preventive investment, malfunctions and liability. International Journal of Production Economics (2023)

Igor, Kravchenko; Nunes, Cláudia; Oliveira, Carlos. (2023). Investment in two alternative projects with multiple switches and the exit option. Mathematics and Financial Economics (2023)

Hauser, Anrea; Rosa, Carlos; Esteves, Rui; Bugalho, Lourdes; Moura, Alexandra; Oliveira, Carlos. The impact of hurricanes on a property portfolio: an empirical study based on loss data in Portugal. Managerial Finance (2023)

Barros, Vanessa; Correia, Simão; Oliveira, Filipe. On the nonlinear Schrödinger equation in spaces of infinite mass and low regularity. Differential Integral Equations (2022)

Correia, Simão; Oliveira, Filipe; Silva, Jorge D. Mass-transfer instability of ground-states for Hamiltonian Schrödinger systems. Journal d'Analyse Mathématique (2023)

Ferrão, M.E. Differential effect of university entrance scores on graduates' performance: The case of degree completion on time in Portugal. Assessment and Evaluation in Higher Education (2023)

Ferrão, M.E., Prata, P., Fazendeiro, P. Clustering utility-driven assessment of anonymized data. Scientific Data (2022)

Ferrão, M.E. Exploring the path for equity: Students' progression in lower secondary education in Brazil.Studies in Educational Evaluation (2022)

Ferrão, M.E., Vieira, M.T. Differential item functioning of material deprivation assessment: Households with or without childrens. PLoS ONE (2023)

Ferrão, M.E., Alves, M.T. The relationship between students' socio-demographics and the probability of grade repetition in Brazilian primary education: is it decreasing over time? Large-scale Assessment in Education (2023)

Alves, M.T., Bastos, A., Ferrão, M.E. Instruments for the assessment of child exposure to household material deprivation in Portugal: scale validation and interpretation [Instrumentos de avaliação da exposição infantil à privação de materiais domésticos em Portugal: validação e interpretação de escala]. Sociedade e Estado (2022)

Ferrão, M.E. Estudo longitudinal sobre eficácia diferencial e equidade social no Brasil [Longitudinal study on differencial effectiveness and social equity in Brazil] REICE - Revista Iberoamericana Sobre Calidad, Eficacia y Cambio en Educacion (2022)

R. Ferreira, V. Móra, M. C. Mourão, M. Moz, L. S. Pinto and J. Ribeiro. Arc Routing for Parking Enforcement Officers: exact and heuristic solutions. European Journal of Operational Research, to appear (2022).

M. Guerra and A. Moura. Reinsurance of multiple risks with generic dependence structures. Insurance: Mathematics and Economics, to appear (2022).

R. L. Gudmundarson, M. Guerra and A. Moura. Minimizing Ruin Probability Under Dependencies for Insurance Pricing. preprint (2022).

M. E. Ferrão, A. Bastos and T. G. Alves. A Measure of Child Exposure to Household Material Deprivation: Empirical Evidence from the Portuguese Eu-Silc. Child Indicators Research, to appear (2022).

N. Rosati, P. Bomprezzi and M. Martinez Cillero. Critical dimensions in the empirical measurement of common shareholding. preprint (2022).

N. Rosati, P. Pietro, Bomprezzi, M. Martinez Cillero. Institutional investors and common ownership in the European energy. preprint (2022).

J. P. Pontes and T. Peixe. On the Roots of Underdevelopment: "Wrong Equilibrium" or "Miscoordination"? preprint (2022).

Loïc De Weerdt, Carlos Oliveira, Eric D. Larson, Chris Greig. The interplay between technology options, market uncertainty, and policy in zero-carbon investment decisions, Energy Economics, 128 (2023)

Alves, J., Morgado, S. Secular Stagnation: Is immigration part of the solution. Journal of International Development. Forthcoming, (2023)

Alves, J. Menescal, L. Optimal threshold taxation: an empirical investigation for developing economies. The Journal of Economic Asymmetries. Forthcoming, (2023)

Rocha, B. T., Melo, P. C., Afonso, N., & e Silva, J. A. The local impacts of building a large motorway network: Urban growth, suburbanisation, and agglomeration. Economics of Transportation, 34, 100302, (2023). https://www.sciencedirect.com/science/article/pii/S2212012223000023

Rocha, B. T., Melo, P. C., Afonso, N., & de Abreu e Silva, J. (2023). Motorways, local economic activity and commuting. Regional Studies, (2023). https://www.tandfonline.com/doi/full/10.1080/00343404.2023.2187768

Huo, T., & St. Aubyn, M. Electricity, Exergy and Economic Growth in Mozambique. International Journal of Energy Economics and Policy, 12(4), 439–446, (2022). https://doi.org/10.32479/ijeep.13245

Tanya Vianna de Araújo, Rui Vilela Mendes. Long-range connections, real-world networks and rates of diffusion. Advances in Complex Systems, 25, 2250009 (2022)

Tanya Vianna de Araújo, Rui Vilela Mendes. Long-range connections and mixed diffusion in fractional networks. Physica A, 608, 128269 (2022)

Emanuel Reis Leão, Pedro Reis Leão. The Paradox of Investment: A Contribution to the Theory of Demand-Led Economic Growth. Review of Political Economy (2022). https://doi.org/10.1080/09538259.2022.2062962

Cornea-Madeira, A., and Madeira, J. "Econometric Analysis of Switching Expectations in UK Inflation", Oxford Bulletin of Economics and Statistics 84 (3), 651-673, (2022)

Otilia Boldea, O., Cornea-Madeira, A., and Madeira, J. "Disentangling the effect of measures, variants and vaccines on SARS-CoV-2 Infections in England: A dynamic intensity model", accepted at The Econometrics Journal. (2023)

Hoeckel, P.H.; Alvim, A.M.; Pontes, J.P.; Dias, J. The Ethanol Market and Its Relation to the Price of Agricultural Commodities, Energies 2023, 16, 2788. (2023) https://doi.org/10.3390/en16062788

Murta, R. & Gonçalves, F. F. Open banking in retail banking companies: Evolution or revolution? Case study NB Network+. In G. Pellat, T. Rkibi: Quand la crise est porteuse d'innovations. Comment les territoires, les citoyens et les entreprises s'approprient l'Europe, Paris, L'Harmattan, 38-53, (2023)

Mota, C. V. & Gonçalves, F. F. Segmentação das rotas turísticas em Portugal Continental - Uma análise de clusters. Revista Turismo & Desenvolvimento, 39, 139-154, (2022). doi: 10.34624/rtd.v39i0.30432

Afonso, A., Fraga, G. Government spending efficiency in Latin America, Empirica, forthcoming. (2023)

Afonso, A., Pereira, F. Unconventional Monetary Policy in the Euro Area. Impacts on Loans, Employment, and Investment, International Journal of Finance and Economics, forthcoming. (2023)

Afonso, A., Blanco-Arana, M. Carmen. Unemployment and financial development: evidence for OECD countries, Comparative Economic Studies, forthcoming. (2023)

Afonso, A., Coelho, J. Twin Deficits through the Looking Glass: Time-Varying Analysis in the Euro Area, Economic Change and Restructuring, 56, 2087-2110, (2023).

Afonso, A., Sousa, A. Monetary and fiscal interplay: does it work both ways? Economic Systems, forthcoming. (2023).

Afonso, A., Alves, J. Does government spending efficiency improve fiscal sustainability? European Journal of Political Economy, forthcoming. (2023).

Afonso, A., Rodrigues, E. Is public investment in construction and in R&D, growth enhancing? A PVAR Approach Applied Economics, forthcoming. (2023).

Afonso, A., Coelho, J. Public finances solvency in the Euro Area: true or false, Economic Analysis and Policy, 77, 642-657, (2023).

REM, Rua Miguel Lupi, 20 - 1249-078 Lisboa, Portugal
phone: (+351) 213 925 912

@ rem@iseg.ulisboa.pt

http:// https://rem.rc.iseg.ulisboa.pt/

https://twitter.com/ResearchRem