

CURRICULUM VITAE

JOAQUIM JOÃO JÚDICE

I- PERSONAL INFORMATION

Name: Joaquim João Alarcão Júdice

Born Place and Date: Lisboa, October 3, 1951

Nationality: Portuguese

Work Address: Instituto de Telecomunicações, Pólo de Coimbra, Coimbra, Portugal.

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Academic Degrees:

-Aggregation, Universidade de Coimbra, Portugal, October 1996.

-PhD in Mathematics and Operations Research, Brunel University, England, February 1982.

-Graduation in Mathematics, Universidade de Coimbra, Portugal, December 1974.

Education :

-Retired Full Professor, Universidade de Coimbra, November 2011 -

-Full Professor, Departamento de Matemática, Universidade de Coimbra, June 1998 – November 2011.

-Associate Professor, Departamento de Matemática, Universidade de Coimbra, September 1988 - June 1998.

-Assistant Professor, Departamento de Matemática, Universidade de Coimbra, November 1982 - September 1988.

-Lecturer, Departamento de Matemática, Universidade de Coimbra, October 1981 - November 1982.

-Lecturer, Departamento de Matemática, Universidade do Minho, October 1978 - October 1981.

-Lecturer, Instituto Superior de Engenharia de Coimbra, October 1975 - September 1978.

-Junior Lecturer, Departamento de Matemática, Universidade de Coimbra, December 1974 - July 1975.

II- PROFESSIONAL ACTIVITIES

A— ASSOCIATE EDITOR OF SCIENTIFIC JOURNALS

-Investigação Operacional (1988 - 2006) – Editor-in-Chief (1988 - 2004)

-Investigacion Operativa (1991 - 1999)

-International Abstracts of Operations Research (1991- 2004)

-Advanced Modeling and Optimization (1999 – 2016)

-Optimization and Engineering (2000 - 2016)

-Advances in Operations Research (2008 - 2015)

-Journal of Advanced Researches on Applied Mathematics (2008 - 2016)

-Mathematical Problems in Engineering (2009 - 2015)

-Production (2012 - 2016)

-Relatórios de Pesquisa em Engenharia de Produção (2012 - 2016)

-Communications in Optimization Theory (2012 - 2016)

-Numerical Algebra, Control and Optimization (NACO) (2010 - 2016)

-Computational Optimization and Applications (1992 - 2017)

-TOP-Journal of the Spanish Statistical and Operations Research Society (1993 - 2017)

-Pesquisa Operacional – Revista da SOBRAPO (2011 - 2017)

B— REFEREE OF SCIENTIFIC JOURNALS

-Mathematical Reviews

-Linear Algebra and its Applications

-Mathematical Programming

-European Journal of Operational Research

-Journal of Optimization Theory and Applications

-SIAM Journal on Scientific Computing

-SIAM Journal on Numerical Analysis

-SIAM Journal on Control and Optimization

-SIAM Journal on Optimization

-SIAM Journal on Matrix Analysis and Applications

-Transportation Science

-Annals of Operations Research

-Computers and Operations Research

- Numerical Algebra, Control and Optimization (NACO)
- Networks
- Optimization
- Optimization and Methods and Software
- Numerische Mathematik
- Numerical Algorithms
- RAIRO- Recherche Opérationelle
- Journal of Global Optimization
- Optimization and Engineering
- International Journal of Computer Mathematics
- Discrete Applied Mathematics
- Investigacion Operativa
- Computational Optimization and Applications
- Journal of Computational and Applied Mathematics
- Optimization Letters
- Operations Research Letters
- International Transactions in Operational Research
- Mathematical Communications
- TOP- Journal of the Spanish Statistical and Operations Research Society
- Investigação Operacional
- Advanced Modeling and Optimization
- Mathematical Problems in Engineering
- International Journal of Engineering Mathematics
- Applied Numerical Mathematics
- Applied Mathematics Letters
- Pacific Journal of Optimization
- Pesquisa Operacional
- Electronic Journal of Linear Algebra
- Vietnam Journal of Mathematics
- Tamkang Journal of Mathematics
- Journal of Applied Mathematics
- Actas da 1ª Conferência em Estatística e Optimização
- Proceedings of the IMACS Symposium on Iterative Methods in Linear Algebra
- Proceedings of 1st Bienmial Soviet-Italian Conference on Methods and Applications of Mathematical Programming
- Proceedings of the International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2008)

C— REFEREE OF SCIENTIFIC PROJECTS

- PRAXIS XXI; JNICT
- International Science Foundation
- POCTI2000 e POCTI2001 – Fundação para a Ciência e Tecnologia
- Academic Research Programme of Department of National Defence, Canada

D— ORGANIZATION OF CONFERENCES

- 1º Ciclo de Conferências em Análise Numérica e Optimização, April and May, 1986
- 3º Congresso da APDIO, Universidade de Coimbra, December 1987
- Workshop on Large-Scale Optimization, Universidade de Coimbra, July 1991
- Optimization 95, Universidade do Minho, Braga, July 1995
- XV Olimpíadas de Matemática, 1996-97
- Escola de Verão de Matemática da SPM, Universidade de Aveiro, September 1997
- XVI Olimpíadas de Matemática, 1997-98
- 7º Encontro Nacional da SPM, February 1998
- Optimization 98, Universidade de Coimbra, July 1998
- Matemática Aplicada às Telecomunicações: Que Problemas?, Coimbra, September 1998
- Escola de Verão de Matemática da SPM, Universidade Nova de Lisboa, September 1999
- ConfTel - Conferência Internacional de Telecomunicações, Figueira da Foz, April 2001
- Optimization 2001, Universidade de Aveiro, July 2001
- Advanced School and Workshop on Mathematical Techniques and Problems in Telecommunications, Instituto Politécnico de Tomar, September 2003
- 11º Congresso da APDIO - IO 2004, Universidade do Porto, April 2004
- Optimization2004, Universidade de Lisboa, July 2004

- Iberian Conference in Optimization, CIM, Coimbra, November 2006
- Workshop IO: Que Desafios para 2010-2020, Coimbra, October 2010
- Workshop IO nas Empresas: Sistemas Decisionais da Teoria à Prática, Coimbra, October 2010
- Workshop em Optimização de Transportes, Coimbra, November 2010
- Workshop IO na Robótica, Coimbra, March 2011
- Workshop IO nas Telecomunicações, Coimbra, December 2011
- ICCOPT, Caparica, July/August 2013
- Workshop on Optimization, Coimbra, July 2015

E— MEMBER OF INTERNATIONAL CONFERENCE PROGRAM COMMITTEES

- Conferences in Portugal – 29
- Conferences abroad - 52

F— MEMBER OF ACADEMIC COMMITTEES

- Masters – 32
- PhD - 53
- Equivalence to PhD- 5
- Committees for Polytechnic Institutes - 8
- Tenures – 22
- Committees for Associate Professor - 21
- Aggregations - 27
- Committees for Full Professor - 12

G— MEMBER OF SCIENTIFIC SOCIETIES

- Associação Portuguesa para o Desenvolvimento da Investigação Operacional (APDIO)
- Institute for Operations Research and Management Sciences (INFORMS) – until 2018
- Sociedade Portuguesa de Matemática (SPM)
- Society for Industrial and Applied Mathematics (SIAM) – until 2018
- American Mathematical Society (AMS)
- Mathematical Programming Society (MPS) – until 2018

H— MEMBER OF ACADEMIC AND RESEARCH INSTITUTIONS

- Vice-President of Associação Portuguesa de Investigação Operacional (APDIO) (1989 - 1992)
- Vice-President of Sociedade Portuguesa de Matemática (SPM) (1996 - 1997)
- Member of Scientific Council of Instituto Superior Bissaya Barreto (1995 - 2000)
- Member of Scientific Council of Instituto de Telecomunicações
- Member of Scientific Council of Centro Internacional de Matemática (CIM) (2000 - 2004)
- Member of Scientific Council of Exact Sciences of Fundação para a Ciência e Tecnologia (2003 - 2011)
- Member of International Advisory Committee of ALGORITMI of University of Minho (1999 – 2010)
- Member of International Advisory Committee of CeMAEI of São Paulo (2014 – 2015)
- Member of Committee of Prémio Científico IBM (2014 – 2015)
- National Representative of IFIP Technical Committee on System Modelling and Optimization (2006 - 2011)
- President of Centro Internacional de Matemática (2004 - 2008)
- President of Associação Portuguesa de Investigação Operacional (APDIO) (2010 - 2011)
- EUROPT Fellow 2012, European Optimization Group (EUROPT).

I— MANAGEMENT

- Member of Board of Directors of Departamento de Matemática da Faculdade de Ciências e Tecnologia da Universidade de Coimbra, 1983 / 84, 1984 / 85, 1987 / 88.
- Vice-President of Faculdade de Ciências e Tecnologia da Universidade de Coimbra, 2000-2001.
- Vice-President of Departamento de Matemática da Faculdade de Ciências e Tecnologia da Universidade de Coimbra, 2003-2004.
- President of Departamento de Matemática da Faculdade de Ciências e Tecnologia da Universidade de Coimbra, 2005-2006.

III- LECTURES

BsC:

- Programação Matemática
- Programação Não Linear

Álgebra Linear Numérica
Optimização Discreta
Optimização em Redes
Programação Linear
Análise Numérica
Matemática Numérica I
Cálculo I
Análise Matemática I
Análise Matemática II
Análise Infinitesimal I
Matemática I

Master:

Programação Complementar
Análise Matricial e Optimização
Complementaridade Linear
Fundamentos de Optimização
Programação Linear

IV- RESEARCH

A— MAIN AREAS OF INTEREST

-Complementarity Problems: Interior-Point, Pivotal, Enumerative and Sequential Complementarity Algorithms for Linear and Nonlinear Complementarity Problems.
-Global Optimization: Branch and Bound, Sequential Complementarity, Interior-Point and Complementarity Active-Set Algorithms for Mathematical Programming Problems with Complementarity Constraints, Quadratic Programming and Integer Programming.
-Applications of Optimization in Telecommunications and Civil Engineering.

B— MEMBER OF RESEARCH PROJECTS

-Restructuring of sparse matrices into block diagonal and band diagonal forms: applications to LP problems, England, 1985-87
-Resolução de Problemas de Optimização Não Linear de Grandes Dimensões e Aplicações a Problemas de Engenharia Química, INIC, 1990-91 *
-Algoritmos de Ponto Interior para Problemas de Optimização em Redes e Aplicações em Telecomunicações e Finanças, Project FLAD, 1996-97 *
-Solução de Problemas de Álgebra Linear Numérica e de Optimização e Aplicações em Engenharia Estrutural, Genética e Finanças, Project PRAXIS XXI, 1996-99 *
-Modelos Variacionais e Optimização, Project PRAXIS XXI, 1997-2000
-Optimização em Física, Project PRAXIS XXI, 1999-2000
-TRANSPARENTE- TRANSPORTE, Acesso e Distribuição em REDES de Comunicação óptica multiplExadas, Project FCT, 2000-2002
-Optimização Não Linear, Project FCT, 2000-2004
-ORAL – Optimal Resource Allocation, Project FCT, 2005-2008
* Investigador Responsável

C— SUPERVISION OF RESEARCH STUDENTS

1 – Master

-L. M. Fernandes, Resolução de problemas lineares complementares monótonos de grandes dimensões, Universidade de Lisboa, September 1992.
-L. F. Portugal, Resolução de problemas de mínimos quadrados, Universidade de Coimbra, January 1993 (co-supervision with A. Portugal).
-M. A. Coelho, Aplicação da complementaridade linear num problema de equilíbrio económico, Instituto Superior Técnico, January 1993.
-A. P. Lima, Um estudo do problema linear complementar, Universidade do Porto, February 1995 (co-supervision with M. C. Guedes).
-I. C. Ribeiro, Um estudo de técnicas enumerativas e bilineares para problemas lineares complementares, Universidade do Porto, April 1996 (co-supervision with A. M. Faustino).
-A. P. Teixeira, Uma abordagem de optimização não linear para problemas lineares complementares, Universidade do Porto, May 1996 (co-supervision with M. C. Guedes).
-J. J. Corado, Optimização de portfolios obrigacionistas, Instituto Superior Técnico, December 1996.

- M. C. Soares, Complementaridade linear em modelos variacionais de mecânica, Universidade de Coimbra, March 1997.
- M. A. Cruz, Programação de dois níveis linear e quadrática, Universidade do Porto, May 1997 (co-supervision with A. M. Faustino).
- M. M. Fonseca, Programação quadrática estritamente convexa e aplicações, Universidade de Coimbra, September 1997.
- J. J. Santos, Programação quadrática e modelos de investimento, Universidade de Aveiro, September 1998.
- S. S. Rosa, Análise e resolução numérica de alguns problemas de optimização de estruturas, Universidade de Coimbra, February 2002 (co-supervision with I. Figueiredo).
- C. P. Baptista, Resolução de Dois Problemas de Optimização em Telecomunicações e em Hidráulica, Universidade de Lisboa, February 2005.

2- Other Academic Degrees

- J. M. Patrício, Um estudo sobre o método do invólucro para matrizes esparsas positivas definidas, Universidade de Coimbra, June 1991.
- L. N. Vicente, Programação de dois níveis, Universidade de Coimbra, November 1992.
- J. L. Soares, Métodos de Newton para optimização com restrições simples, Universidade de Coimbra, December 1993.
- L. M. Fernandes, Problemas de optimização com restrições de limites, Provas para Professor Coordenador, Instituto Politécnico de Tomar, July 1999.
- J. M. Patrício, Algoritmos de pontos interiores para problemas de optimização linear e quadrática, Provas para Professor Adjunto, Instituto Politécnico de Tomar, September 2001.

3 – PhD

- A. M. Faustino, Complementaridade Linear e Aplicação em Optimização Global, Universidade de Coimbra, July 1992.
- F. M. Pires, Problemas Lineares Complementares Monótonos, Universidade do Algarve, December 1994.
- M. G. Queiroz, Três Problemas em Complementaridade e Programação Matemática, Universidade de São Paulo, Brasil, November 2001 (co-supervision with C. Humes).
- L. M. Fernandes, Análise de Algoritmos de Complementaridade e Aplicação em Modelos de Equilíbrio, Universidade de Coimbra, July 2002.
- I. Ribeiro, Optimização Global e Aplicações em Engenharia Estrutural, Universidade do Porto, February 2005 (co-supervision with A. M. Faustino).
- M. C. Brás, Problemas de Programação Matemática com Restrições Lineares de Equilíbrio e Aplicações, Universidade Nova de Lisboa, April 2007.
- J. M. Patrício, Algoritmos de Pontos Interiores para Problemas Complementares Monótonos e suas Aplicações, Universidade de Coimbra, April 2007.
- P. Tavares, Optimização de Gestão de Lamas de ETAR numa Perspectiva Regional, Universidade de Coimbra, Fevereiro 2008 (co-supervision with J. Temido).
- S. Rosa, Problema Complementar de Valores Próprios, Universidade da Beira-Interior, November 2009.

D – COMMUNICATIONS

Invited:

- International Conference on Optimization and Equilibrium Problems (ICOEP 2019), Dresden, July/August 2019.
- Workshop on Optimization, Game Theory and Data Analysis, Vienna, December 2018.
- International Symposium on Mathematical Programming, Pittsburgh, July 2015.
- International Symposium on Generalized Convexity and Monotonicity, Rio de Janeiro, August 2014.
- SIAM Conference on Optimization, San Diego, May 2014.
- ICCOPT 2013 – International Conference on Continuous Optimization, Caparica, Portugal, July / August, 2013.
- WCGO 2013 – World Congress of Global Optimization, Hungshan, China, July 2013.
- Optimization Days 2013, Montreal, Canada, May 2013.
- 5th International Conference on Optimization and Control with Applications, Beijing, China, December 2012.
- EURO XXV, Vilnius, Lithuania, July 2012.
- EUROPT 2012 – 10th EUROPT Workshop on Advances in Continuous Optimization, Siauliai, Lithuania, July 2012.
- International Conference on Numerical Analysis & Optimization: Theory and Applications, Dhahran, Saudi Arabia, December 2011.
- 3rd Iberian Mathematical Meeting, Braga, October 2010.
- 42^o Simpósio Brasileiro de pesquisa Operacional, Bento Gonçalves, Brasil, August-September 2010.
- ECMI 2010, University of Wuppertal, Germany, July 2010.
- EURO XXIV, Lisboa, July 2010.
- Encontro Nacional da SPM, Leiria, July 2010.
- EUROPT Workshop, Aveiro, July 2010.
- 14th WSEAS International Conference on Applied Mathematics (MATH'09), Tenerife, December 2009.
- IO2009 – 14^o Congresso da APDIO, Caparica, September 2009

- ESMC2009 – 7th EUROMECH Solid Mechanics, Lisbon, September 2009
- 20th International Symposium on Mathematical Programming, Chicago, August 2009
- 4th IFIP TC7 Conference, Buenos Aires, July 2009
- Calculus of Variations and its Applications from Engineering to Economy, New University of Lisbon, September 2008.
- MOPTA 08, University of Guelph, Guelph, Canada, August 2008.
- Encontro Nacional da SPM, Coimbra, June 2008.
- i-Math Intensive School on Mathematical Programming and its Applications, CIEM, Castro Urdiales.
- NCP07 – Nonconvex Programming, Local and Global Approaches, Rouen, December 2007.
- Optimization 2007, Porto, July 2007.
- ISMP2006 - 19th International Symposium on Mathematical Programming, Rio de Janeiro, Brazil, July and August 2006.
- EURO XXI - European Conference on Operational Research, Reykjavik, Iceland, July 2006.
- Workshop on Advances in Continuous Optimization, Reykjavik, Iceland, June and July 2006.
- 29^o. Congreso Nacional de Estadística y Investigación Operativa, Tenerife, Spain, May 2006.
- INFORMS Annual Meeting 2005, San Francisco, USA, November 2005.
- International Conference on Complementarity, Duality and Global Optimization in Science and Engineering, Virginia Tech, Virginia, USA, August 2005.
- 17th EURO Mini Conference: Continuous Optimization in Industry, Pecs, Hungary, June 2005.
- Workshop on Applied Optimization, Dresden, Germany, October 2004.
- Encontro Nacional da SPM, Porto, Portugal, May 2004.
- EURO/INFORMS Joint International Meeting, Istanbul, Turkey, July 2003.
- International Conference on Frontiers in Global Optimization, Santorini, Greece, June 2003.
- IV Brazilian Workshop on Continuous Optimization, Rio de Janeiro, Brazil, July 2002.
- Third Contact Mechanics International Symposium, Peniche, Portugal, June 2001.
- X CLAIO - Congreso Latinoamericano de Investigación Operativa, Mexico City, September 2000.
- International Symposium on Mathematical Programming, Atlanta, USA, August 2000.
- INFORMS 99, Philadelphia, USA, November 1999.
- Colloque Instabilité du Frottement, Bourget-du-Lac, France, September 1999.
- International Conference on Complementarity Problems, Madison, USA, June 1999.
- EURO XVI, Brussels, July 1998.
- IV World Congress on Computational Mechanics, Buenos Aires, Argentina, July 1998.
- 7^o Encontro Nacional da SPM, February 1998.
- International Symposium on Mathematical Programming, Lausanne, Switzerland, August 1997.
- EURO / INFORMS Joint International Meeting, Barcelona, Spain, July 1997.
- 1^a Conferência Nacional de Telecomunicações, Aveiro, Portugal, April 1997.
- International Conference on Complementarity Problems, Baltimore, USA, November 1995.
- TIMS XXXIII- Singapore, Singapore, June 1995.
- APMOD95, London, April 1995.
- 15th International Symposium on Mathematical Programming, Ann Arbor, USA, August 1994.
- ORSA/TIMS Boston Joint National Meeting, Boston, April 1994.
- IFORS 93, Lisbon, July 1993.
- Optimization Days 1993, Montreal, Canada, May 1993.
- Third Franco-Latinamerican Conference in Applied Mathematics, Santiago, Chile, September 1992.
- EURO XII/TIMS XXXI, Helsinki, Finland, June 1992.
- Optimization Days 1992, Montreal, Canada, May 1992.
- Recent Advances in Global Optimization, Princeton, U.S.A., May 1991.
- APMOD 91-Applied Mathematical Programming and Modelling, London, UK, January 1991.
- NATO Advanced Study Institute: Computer Algorithms for solving linear algebraic systems: the state of art, Il Ciocco, Italy, September 1990.
- Optimization Days 1990, Montreal, Canada, May 1990.
- 1^o Seminário Avançado sobre Optimização, Lisboa, December 1982.

Contributed:

- XIII Brazilian Workshop on Continuous Optimization (Brazopt 2019), Rio de Janeiro, Brazil, September 2019.
- XII Brazilian Workshop on Continuous Optimization (Brazopt 2018), Foz de Iguassu, Brazil, July 2018.
- Optimization 2017, Lisboa, Portugal, September 2017.
- XI Brazilian Workshop on Continuous Optimization (Brazopt 2016), Manaus, Brazil, May 2016.
- Optimization 2014, Guimarães, Portugal, July 2014.
- X Brazilian Workshop on Continuous Optimization (Brazopt 2014), Florianopolis, Brazil, March 2014.
- IO 2103 – 16^o Congresso Nacional da APDIO, Bragança, June 2013.
- GOW12 – Global Optimization Workshop 2012, Natal, Brazil, July 2012.

- Optimization 2011, Caparica, July 2011.
- IO 2011 – 15º Congresso Nacional da APDIO, Coimbra, April 2011.
- IO 2009 – 14º Congresso da APDIO, Caparica, September 2009.
- 7th EUROPT, Remagen, Germany, July 2009.
- IO 2008 – 13º Congresso da APDIO., Vila Real, March 2008.
- IO 2006 - 12º Congresso da APDIO, Lisboa, October 2006.
- First International Conference on Modelling, Simulation and Applied Optimization, Dubai, February 2005.
- Optimization 2004, Lisboa, Portugal, July 2004.
- IO2004 -11º Congresso da APDIO, Porto, Portugal, April 2004.
- 18th International Symposium on Mathematical Programming, Copenhagen, Denmark, August 2003.
- XXX IAHS World Congress on Housing, Coimbra, Portugal, September 2002.
- IO 2002 - 10º Congresso da APDIO, Guimarães, Portugal, March 2002.
- Optimization 2001, Aveiro, Portugal, July 2001.
- International Symposium on Mathematical Programming, Atlanta, USA, August 2000.
- IASS-IACM 2000 - Fourth Colloquium on Computation of Shell & Spatial Structures, Crete, Greece, June 2000.
- RECPAD 2000 - Congresso Nacional da Associação Portuguesa de Reconhecimento de Padrões, Porto, Portugal, May 2000.
- IO2000 - 9º Congresso da APDIO, Setúbal, Portugal, April 2000.
- 6º Encontro Nacional de Mecânica Computacional, Aveiro, Portugal, April 2000.
- Second Conference on Operations and Quantitative Management, Ahmedabad, India, January 1999.
- IO 98 - 8º Congresso da APDIO, Faro, Portugal, December 1998.
- Optimization 98, Coimbra, Portugal, July 1998.
- INFORMS Israel Meeting, TelAviv, Israel, June 1998.
- 5º Encontro Nacional de Mecânica Computacional, Guimarães, Portugal, October 1997.
- IO96 - 7º Congresso da APDIO, Aveiro, Portugal, April 1996.
- Optimization 95, Braga, Portugal, July 1995.
- IO94 - 6º Congresso da APDIO, Braga, Portugal, March 1994.
- NATO ASI: Algorithms for Continuous Optimization, Il Ciocco, Italy, September 1993.
- TIMS/ORSA Joint National Meeting, Chicago, USA, May 1993.
- Lisbon Meeting of the International Linear Algebra Society, Lisboa, Portugal, August 1992.
- Fourth SIAM Conference on Optimization, Chicago, USA, May 1992.
- IO92 - 5º Congresso da APDIO, Évora, Portugal, April 1992.
- 15th IFIP Conference on System Modelling and Optimization, Zurich, Switzerland, September 1991.
- 14th International Symposium on Mathematical Programming, Amsterdam, The Netherlands, August 1991.
- Workshop on Large-Scale Optimization, Coimbra, Portugal, July 1991.
- 3ª Conferência sobre Aplicações da Matemática à Economia e à Gestão, Lisbon, Portugal, May 1991.
- TIMS/ORSA Nashville Joint National Meeting, Nashville, USA, May 1991.
- IMACS International Symposium on Iterative Methods in Linear Algebra, Brussels, Belgium, April 1991.
- 1ª Conferência em Estatística e Optimização, Tróia, Portugal, December 1990.
- XV Jornadas Luso-Espanholas de Matemática, Évora, Portugal, September 1990.
- Operations Research 1990, Vienna, Austria, August 1990.
- Las Vegas TIMS/ORSA Joint National Meeting, Las Vegas, USA, May 1990.
- Copper Mountain Conference on Iterative Methods, Copper Mountain, Colorado, USA, April 1990.
- IO89 - 4º Congresso da APDIO, Lisboa, Portugal, December 1989.
- Conferencia en Algebra Lineal y Aplicaciones, Valencia, Spain, October 1989.
- EURO X, Belgrad, Yugoslavia, June 1989.
- Third SIAM Conference on Optimization, Boston, USA, April 1989.
- 2ª Conferência sobre Aplicações da Matemática à Economia e à Gestão, Lisboa, Portugal, November 1988.
- 13th Symposium on Mathematical Programming, Tokyo, Japan, August/September 1988.
- EURO IX - TIMS XXVIII, Paris, France, July 1988.
- ORSA-TIMS Joint Meeting, St Louis, USA, October 1987.
- IO 87 - 3º Congresso da APDIO, Coimbra, Portugal, October 1987.
- International Conference on Linear Algebra and Applications, Valencia, Spain, September 1987.
- Martin Beale Memorial Symposium, London, UK, July 1987.
- XII Jornadas Luso-Espanholas de Matemática, Braga, Portugal, May 1987.
- Optimization Days 1987, Montreal, Canada, May 1987.
- Conferência sobre Aplicações da Matemática à Economia e à Gestão, Lisboa, Portugal, December 1986.
- EURO VIII, Lisboa, Portugal, September 1986.
- 1º Ciclo de Conferências em Análise Numérica e Optimização, Coimbra, Portugal, April/May 1986.
- OR Models on Microcomputers, Lisboa, Portugal, September 1985.

- XII Symposium on Mathematical Programming, Boston, USA, August 1985.
- 2º Congresso da APDIO, Porto, Portugal, April 1984.
- Encuentro Internacional de Álgebra Lineal y Aplicaciones, Victoria-Gasteiz, Spain, September 1983.
- Encontro Internacional de Álgebra Linear e Aplicações, Coimbra, Portugal, October 1982.
- XI International Symposium on Mathematical Programming, Bonn, Germany, August 1982.

E - PUBLICATIONS

1- BOOKS AND LECTURE NOTES

- 1- Sobre o Problema Inverso dos Valores Próprios, Departamento de Matemática da Universidade de Coimbra, 1974.
- 2- Análise Matemática, vol. 1 e 2, Instituto Superior de Engenharia de Coimbra, 1978.
- 3- A Study of the Linear Complementarity Problems, PhD Thesis, Department of Mathematics and Statistics, Brunel University, 1981.
- 4- Análise Matemática I, Departamento de Matemática, Universidade de Coimbra, 1984.
- 5- 1º Ciclo de Conferências em Análise Numérica e Optimização, co-editor with M. P. Oliveira e M. S. Rosa, Departamento de Matemática da Universidade de Coimbra, 1986.
- 6- Programação Linear, Relatório de um Curso, Concurso para Professor Associado, Universidade de Coimbra, 1987.
- 7- Funções Reais de uma Variável Real, Departamento de Matemática, Universidade de Coimbra, 1988.
- 8- Sistemas de Equações Lineares, co-author com J. Patrício, Departamento de Matemática, Universidade de Coimbra, 1994.
- 9- Matemática 1, Polo da Figueira da Foz da Universidade Católica Portuguesa, 1994.
- 10- Programação Não Linear, Relatório de um Curso, Provas de Agregação, Universidade de Coimbra, 1996.
- 11- Funções Mérito para o Problema Linear Complementar e seus Algoritmos, Texto da Lição de Síntese para Provas de Agregação, Universidade de Coimbra, 1996.
- 12- Matemática Aplicada em Telecomunicações: Que Problemas?, co-editor with M. C. Gouveia, Instituto de Telecomunicações, 1999.
- 13- Mathematical Techniques and Problems in Telecommunications, co-editor with C. Fernandes e C. Salema, Centro Internacional de Matemática 24, 2003.
- 14- Texto de Apoio às Aulas de Álgebra Linear Numérica, Departamento de Matemática, Universidade de Coimbra, 2003.
- 15- Equações Não Lineares e Optimização Unidimensional, co-author with L. Merca Fernandes, Departamento de Matemática, Universidade de Coimbra, 2005.
- 16- Programação Linear, co-author with P. Martins, M. Pascoal e J. Santos, Departamento de Matemática, Universidade de Coimbra, 2006.
- 17- Optimização em Redes, co-author with P. Martins, M. Pascoal e J. Santos, Departamento de Matemática, Universidade de Coimbra, 2006.
- 18- Texto de Apoio às Aulas de Análise Matemática I, Departamento de Matemática, Universidade de Coimbra, 2010.
- 19- Fundamentos de Optimização Não Linear, co-author with J. L. Santos, Departamento de Matemática, Universidade de Coimbra, 2013.

2- PAPERS IN RESEARCH JOURNALS

- 1- Classes of matrices for the Linear Complementarity Problem, *Linear Algebra and its Applications* 54 (1984) 122-125.
- 2- The duality theory of general quadratic programs, *Portugaliae Mathematica* 42 (1984) 113-121.
- 3- Direct methods for the solution of Linear Complementarity Problems with symmetric positive semi-definite matrices, co-author with F. M. Pires, *Investigação Operacional* 6 (1986) 115-152.
- 4- A program to reorder and solve sparse unsymmetric systems using the envelope method, co-author with G. Mitra e M. Tamiz, *Operations Research Letters* 6 (1987) 257-258.
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