

CURRICULUM VITAE

ANDRÉ TEIXEIRA BENTO DAMAS MORA

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PERSONAL INFORMATION

Name: André Teixeira Bento Damas Mora

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ACADEMIC DEGREES

1998 - Degree in Electrotechnical Engineering, by Faculdade de Ciências e Tecnologia from Universidade Nova de Lisboa. (average grade 15 in 20)

2002 – Master of Science in Informatics Engineering by Faculdade de Ciências e Tecnologia from Universidade Nova de Lisboa. Thesis entitled "Automation of the Failure diagnosis process of high temperature pipes using Laser spectroscopy". (average grade 16 in 20)

2010 – PhD in Electrotechnical Engineering by Faculdade de Ciências e Tecnologia from Universidade Nova de Lisboa. Thesis entitled "Advanced Image Processing Techniques for Detection And Quantification of Drusen"

PROFESSIONAL EXPERIENCE

2002-2011 - Assistant Professor at Electrotechnical Engineering Department of the Faculdade de Ciências e Tecnologia from Universidade Nova de Lisboa.

1999-2002 - Assistant Trainee at Electrotechnical Engineering Department of the Faculdade de Ciências e Tecnologia from Universidade Nova de Lisboa.

1996-1997 – Student Teacher at Electrotechnical Engineering Department of the Faculdade de Ciências e Tecnologia from Universidade Nova de Lisboa.

2002-2005 - Lecturer at Academia da Força Área, on Digital Systems and Microprocessors.

1997-2011 - Researcher at Centre of Technologies and Systems from UNINOVA – Instituto de Desenvolvimento de Novas Tecnologias.

January 2004 – Lecturer at Short Course on Digital Image Processing (Adobe Photoshop 7), (16hours)

June-1998 - Freelancer Programmer of Java-VRML at Desafio Total.

2008-2010 – Co-Founder of Popup – Information Technologies Lda., a spin-off from the Universidade Nova de Lisboa, and later designated FACTIS Inova – Innovation and Development Lda., by Joint Venture with FACTIS, Lda.

PUBLICATIONS

- A. Mora, J. Fonseca, E. de Oliveira, A. Steiger-Garção, "Multi-Agent systems in Resource Managing - A case study", *Conti'98 - International Conference on Technical Informatics*, Timisoara, Roménia, 29-30 October 1998.

- J. Fonseca, A. Mora, E. de Oliveira, A. Steiger-Garção, "Negociação aplicada à gestão de recursos baseada em Sistemas Multi-Agente", 6^{as} Jornadas Luso-Espanholas de Engenharia Electrotécnica, Lisboa, Portugal, July 1999.

- A. Mora, J. Fonseca, J. Martins, A. Steiger-Garção, "LIBS chemical images analysis for fatigue estimation in industrial materials", 8^o Congresso Luso-Espanhol de Engenharia Electrotécnica, Vilamoura, 3 - 5 July 2003.

- A. Mora, J. Fonseca, J. Martins, A. Steiger-Garção, "LIBS Chemical Images Analysis for Fatigue Estimation in Industrial Materials", ISISPA-2003 Third International Symposium on Image and Signal Processing and Analysis, Rome, Italy, 18 -20 September 2003.
- Pedro Barroso, Joaquim Amaral, André Mora, José Manuel Fonseca, Adolfo Steiger-Garção, "A Quadtree Based Vehicles Recognition System", 4th WSEAS Int.Conf. on OPTICS, PHOTONICS, LASERS and IMAGING (ICOPLI 2004), Taiwan, January 14-16, 2004.
- José Manuel Fonseca, André Mora, "Personal Assistant Autonomous Agents for Intelligent e-Learning Systems", IASTED International Conference WEB-BASED EDUCATION, WBE 2004, Innsbruck, Austria, February 16-18, 2004.
- J.M. Fonseca and A.D. Mora, "An AI based approach to the Learners Profile Estimation", CE2004: The 11th ISPE International Conference on Concurrent Engineering: Research and Applications, Pequim, R. P. China, 26-30 July 2004.
- A. Mora, P. Vieira, J. Fonseca, "A Modeling Approach for Automatic Detection of Drusen Deposits on Retina Images", 4th European Symposium on Biomedical Engineering, Patras Greece, 25-27 June 2004.
- A. Mora, P. Vieira, J. Fonseca, "DRUSEN DEPOSITS ON RETINA IMAGES: DETECTION AND MODELING", 2nd International Conference on Advances in Medical Signal and Information Processing-MEDSIP 2004, Malta, 5-8 September 2004.
- Mora A., Fonseca J., Vieira P., "Drusen Deposits Modeling with Illumination Correction", in Proc. of 3th IASTED International Conference on Biomedical Engineering BIOMED-2005, Innsbruck, Austria, 16-18 February 2005.
- Fonseca J.M., Mora A.D., Marques A.C., "MAMIS – A Multi-Agent Medical Information System", in Proc. 3th IASTED International Conference on Biomedical Engineering BIOMED-2005, Innsbruck, Austria, 16-18 February 2005.
- A. Mora, P. Vieira, J. Fonseca, "MODELLING OF DRUSEN DEPOSITS BASED ON RETINA IMAGE TRIDIMENSIONAL INFORMATION", CIMED 2005 – Second International Conference on Computational Intelligence in Medicine and Healthcare, Costa da Caparica, Lisbon Portugal, 29th June to 1st July 2005.
- J. M. Fonseca, A. D. Mora, A. C. Marques, "A multi-agent medical information system for Bioprofile collection", CIMED 2005 – Second International Conference on Computational Intelligence in Medicine and Healthcare, Costa da Caparica, Lisbon Portugal, 29th June to 1st July 2005.
- J. Fonseca, A. Mora, P. Vieira, "Detecção de Drusas em imagens de retinografia", 3^a Jornadas de Engenharia de Electrónica e Telecomunicações e de Computadores, ISEL, Lisboa, Portugal, 17 - 18 November 2005.
- J. M. Fonseca, A. D. Mora, A. C. Marques, "MAMIS – A Multi-Agent Medical Information System – Um sistema multi-agente de informação médica" , 3^a Jornadas de Engenharia de Electrónica e Telecomunicações e de Computadores, ISEL, Lisboa, Portugal, 17 - 18 November 2005.
- Mora A., Fonseca J., Vieira P., "MD3RI a Tool for Computer-Aided Drusens Contour Drawing", in Proceedings of 4th IASTED International Conference on Biomedical Engineering Biomed-2006, Innsbruck, Austria, 15-17 February 2006.
- Mora A., Fonseca J., Vieira P., Quantification of Drusen Deposits using Image Processing Techniques : 2161, Acta Ophthalmologica Scandinavica, vol. 84, suppl. 239:92, October 2006.
- M. Monteiro Grillo, David Lopes, André Mora, Ana Ferreira, José Fonseca, Pedro Vieira, Software for the semi-automatic determination of the retinal vessel diameter: 4341, Acta Ophthalmologica Scandinavica, vol. 84, suppl. 239:191, October 2006.
- F. Moitinho, Mora A., Vieira P., Fonseca J., AD3RI a Tool for Computer – Automatic Drusen Detection, CompIMAGE - Computational Modelling of Objects Represented in Images: Fundamentals, Methods and Applications, Coimbra, Portugal, 20-21 October 2006.

- I. Dorotovic, J. Fernandes, J. M. Fonseca, A. Mora, C. Moreira, R. A. Ribeiro, COSIS: Coimbra Observatory Solar Information System, Coimbra Solar Physics Meeting on The Physics of Chromospheric Plasmas, ASP Conference Series, 2006.
- F. Moitinho, A. Mora, P. Vieira, J. Fonseca, IMAGE SEGMENTATION FOR DRUSEN SPOTS DETECTION AND MODELLING, CIMED2007 - Third International Conference on Computational Intelligence in Medicine and Healthcare, Plymouth, England, 25-27 July 2007.
- F. Moitinho, A. Mora, P. Vieira, J. Fonseca, A Drusen volume quantification method based on a segmentation algorithm, VIP Image – Thematic Conference on Computational Vision and Medical Image Processing, Porto, Portugal, 17-19 October 2007.
- Mora, A., Fonseca, J., Vieira, P.: Retina Image Gradings' Comparison by Weighted Matching Analysis. In: Dössel, O., Schlegel, W.C. (eds.): World Congress on Medical Physics and Biomedical Engineering, Vol. 25/XI. Springer, p. 296-299, Munich, Germany, September 7 - 12, 2009.
- A. Mora, P. Vieira, J. Fonseca: Advances in Image Processing Techniques for Drusens Detection and Quantification in Fundus Images, in Proc. of Doctoral Conference on Computing, Electrical and Industrial Systems – DOCEIS'10, Costa da Caparica, Portugal, 22-24 February 2010.
- Brunner S, Mora A, Weber T, Falkner-Radler CI, Koenig F, Oeser R, Binder S: Size Progression of Non-Exsudative Age-Related Macular Degeneration after Cataract Surgery, Archives of OPHTHALMOLOGY, submitted

BOOKS CHAPTERS

- J. M. Fonseca, A. D. Mora, P. Barroso, "The Web and the new generation of medical information systems" in Outcome prediction in Cancer, editors A. TakTak, A. C. Fisher, Elsevier, Amsterdam, 2006.

PRESENTATIONS

- July 1998 - "Maciv - A Multi-agent System for Resources Management in Civil Construction Sector", *Summer School 98*, Paraul Rece, Roménia.
- 8 September 2005 - "Informatics on Medicine", BEST Summer Course 2005 High-Tech Engineering in Medicine, Almada, Portugal.
- 17 May 2006 - "Despiste automático de exsudados moles", 1as Jornada de Anatomia "na Faculdade de Ciências Médicas da UNL, Lisboa, Portugal.
- Mai 2008 - "Detecção Automática de Drusas em imagens de Retina", JORTEC 2008 - Jornadas Tecnológicas da FCT/UNL, Faculdade Ciências e Tecnologia da UNL, Monte da Caparica.

PATENTS

- 2008 – Co-Inventor of the National Patent entitled "Armazém seguro de cartões de identificação personalizados", register number 104061 from 10-07-2008, published at Boletim da Propriedade industrial nº220/2009 on 12-11-2009.

RESEARCH PROJECTS

- 1997-2000 - MACIV – A multi-agent system for decentralized management in civil construction sector, Programa PRAXIS XXI.
- 2000 - NetBe – Auctions module for a e-commerce platform, Partnership with Pararede.
- 1998-2001 - LIBSGrain - Safe Quimical Analisis of High Temperature Metals using Pulsed Laser, BRITE–EURAM EU Programme.
- 2000-2001 - Training on Information and Communication Technologies through Personalised Open Distance Learning (ODL), LEONARDO Programme.

2001-2004 - Artificial Intelligence and Neural Networks for Innovative ODL, SOCRATES Programme.

2004-2009 - BioPattern Network of Excellence – Computational Intelligence for Biopattern Analysis in Support for e-Healthcare, 6th Framework Programme on Research, Technological Development and Demonstration.

2005-2007 - COSIS: "Coimbra Observatory : Solar Information System", Fundação para a Ciência e Tecnologia, POCTI-CTE-AST/58333/2004.

2005-2008 - Detecção automática de Drusas em imagens de retinografia, Fundação para a Ciência e Tecnologia, POCI/SAU-ESP/57592/2004.

COMMITTEES

September 2000 - Organizing committee of "ECPPM 2000 – Third European Conference on Product and Process Modeling in the building and related industries", Costa da Caparica, Portugal.

February 2001 - Organizing committee of ISO Meeting TC184/SC4, Madeira, Portugal.

June 2005 - Organizing committee of "CIMED 2005 – Second International Conference on Computational Intelligence in Medicine and Healthcare", Costa da Caparica, Portugal.

DIPLOMA PROJECT COMMITTEES

2003 - Co-advisor for Diploma Project "SIREVIA – Sistema de Reconhecimento de Matriculas", Pedro Barroso e Joaquim Amaral.

2004 - Co-advisor for Diploma Project "COTA – Contabilização de Tráfego Automóvel", realizado por Bruno Inácio e Daniel Aldeano.

2004 - Co-advisor for Diploma Project "REPOS - Repositório Fotográfico Seguro com Pesquisa Inteligente", Rui Mariano Dias.

2005 - Co-advisor for Diploma Project "STRVANE –Seguimento em Tempo Real de veículos em ambientes não estruturados", Rodolfo Nunes.

2005 - Co-advisor for Diploma Project "MOMIR – Modelação de Manchas em Imagens da Retina", Fernando Moitinho.

2006 - Co-advisor for Diploma Project "Aplicação de técnicas de processamento de imagem para medição do calibre de Vasos retinianos", Valerie Gaspar.

SHORT COURSES ATTENDANCE

February 2007 - "Ophthalmologic equipments", Hospital de Santa Maria, Lisboa, Portugal.

AWARDS AND GRANTS

1999 – Second Best Student Award of the Electrotechnical Engineering Course 1993/98 at Faculdade de Ciências e Tecnologia from Universidade Nova de Lisboa.

2005-2009 – PhD Grant awarded by Fundação para a Ciência e Tecnologia.

OTHERS

2001–2008 – Assistants representative at Electrotechnical Engineering Department Council.

2002–2006 – Assistants representative at Representatives Council of Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa.

2004-2005 - Member of IEEE - Institute of Electrical and Electronics Engineers.

2006-2007 - Member of EVER - European Association for Vision and Eye Research.