CURRICULA VITAE

Helder Manuel Ferreira Coelho

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SHORT CURRICULA VITAE

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Helder Coelho is a retired full professor of the University of Lisbon (UL) in the Department of Informatics of the Faculty of Sciences, from August 1995. He is a permanent and elected member of the National Academy of Engineering (1999). ECCAI fellow (2002). He was Chair of the Executive Board of Iberamia from 1996-2010. Member of the Advisory Council of Iberamia (2010-). He was member of IFIP TEC12 (AI) and Chair of IFIP WG12.3 (Agents). Editor of the International Journal of Artificial Intelligence (Ceser Publications) and of the Progress in Artificial Intelligence (Springer). He was president of the Institute for Complexity Sciences from 2004-08. Conference Chair of ECAI-2010 in Lisbon, Program Chair of IBERAMIA-1998, and Program Co-Chair with Jaime Sichman of SBIA/IBERAMIA-2000 and 2006. He is currently member of the Advisory Board of EPIA/APPIA Congress, member of the Steering Committee of MASTA and the BWSS Workshops, and PC member of AAMAS Conference (2008-16).

He graduated in Electrical Engineering at the Lisbon Institute of Technology of the Technical University of Lisbon (UTL) in 1968, obtained a degree of Informatics Expert at LNEC in 1980, under the supervision of Luis Moniz Pereira, his Ph.D. in Artificial Intelligence (AI) at the University of Edinburgh in 1980, under the supervision of David H. Warren, and the doctoral equivalence in Informatics Engineering in 1981 from the New University of Lisbon (UNL). He also got the degree of Aggregation in Mathematics in 1988 from UTL.

His research career started at INETI (ex-LFEN), the National Laboratory for Nuclear Physics in 1968, and in 1973 he moved to the National Laboratory for Civil Engineering (LNEC). He was attached as a scientist to the National Laboratory for Civil Engineering (LNEC) for 16 years, where he co-founded the portuguese AI in 1973. He was involved with the Logic Programming project and he became his leader in 1978. He studied Artificial Intelligence under the guidance of Luis Moniz Pereira, Bernard Meltzer, Robert Kowalski and Alain Colmerauer. He was coordinator of several PIDDAC projects at LNEC, namely "Information Technologies for Administrative Systems" and "Intelligent Buildings", two JNICT projects on intelligent buildings (one with INESC). He was active participant in SPRINT project RA41 "Expert Systems for Building Services". During this period his main interests were connected to natural language understanding and knowledge engineering within the logic programming paradigm. He was invited as associated professor in 1985 to join and found the Department of Mathematics of the Faculty of Economics and Management (ISEG) of the UTL and he became responsible for the disciplines of Computing Sciences at the Master course of Applied Mathematics to Economics ans Management. In 1990 he became full professor at ISEG and later on he created the Division of Information Technology and Sciences. In 1988, he was responsible for lauching a movement around Distributed Artificial Intelligence in Europe by chairing a panel on the subject at ECAI-88 in Munich. Presently, he chairs the disciplines of Artificial Intelligence in the undergraduate and post-graduate courses at the University of Lisbon, and he was the head of Informatics Department of the Faculty of Sciences from October 1995 till September 1997. Afterwards he became Director of the Center of the Sciences of Complexity (C^3) of the Faculty of Sciences (Lisbon University), the scientific coordinator of the LABMAC (Laboratory of Models ans Computational Architectures) and the LabMAg (Laboratory for Modelling Agents) of C^3.

He started working at INESC as the leader of the AI project in 1990, and he was the leader of a JNICT R&D project on DAI, and several joint projects with the software industry. Till October 1995 he was involved with projects connected with administrative systems, such as NORMLOG, supported by Portuguese-American Foundation, and JNICT DEONTLOG and STRIDE JURAD. He was one of the experts (AI/ES PAG) of EUROPACE program, advisor of the board of the Informatics Institute (Public Administration), and reviewer of several ESPRIT projects for ECC. Now he is coordinator of one center of excelence in the european Compulog network and he is also involved with ESPRITIII network MODELAGE. He is a member of Praxis projects INTERAGE and MAGO, and he is involved with international cooperation with the following AI groups: Birmingham University (United Kingdom), CNR Istituto de Psicologia in Rome (Italy), Madrid Universidade Nacional de Ensino à Distancia (Spain), Institut Leibniz from IMAG/CNRS (France), Lamsade of Université Paris Dauphine (France), Escola Politécnica da Universidade Estadual de São Paulo (Brazil) and Universidade Federal do Rio Grande do Sul (Brazil).

He was one of the proponents of the Center of Complexity Sciences of the Universidade de Lisboa, in July 1995, a joint effort of professors of the Faculty of Sciences, Medicine, and Letters from University of Lisbon, in order to build up a multidisciplinary spirit around the current problems of today world. Co-founded the Institute for Complexity Sciences (ICC) with other R&D units (Dinamia, UECE, Mathematics Department of UMadeira, GFM of Complexo Interdisciplinar II) and he was the first President of ICC. He is a member of the Group of External Advisors of the Núcleo de Estudos de Complexidade em Economia (UECE) do ISEG (UTL) and he is a member from January 1 (2012) of the team of FCT R&D project MAN-REM (Multi-agent Negotiation and Risk Management in Electric Energy Markets).

He published more than 25 books, namely Information Technologies (Publicações D. Quixote, 1986), Prolog by Example, How to learn, to teach and use it (Springer-Verlag, 1988, in English), and in Portuguese Artificial Intelligence (Editorial Caminho, 1991), Artificial Intelligence in 25 Lessons (Fundação Calouste Gulbenkian, 1995) and Dream and Reason, on the side of the Artificial (Círculo dos Leitores, 1996), and more than 400 papers.

Research profile in Google Scholar (Google Profile: h-Index 22, 2,040 quotations) and ia ResearchGate Network (RG Score: 24.85, 219 publications, 1,021 quotations, 23.45 impact points, 3,029 reads, 291 profile views; colection of chosen publications).

LIST OF MOST RECENT PUBLICATIONS

i) Books

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ii) Chapters of books

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Lemos, C. M., Coelho, H. and Lopes, R. J. ProtestLab - A Computational Laboratory for Studying Street Protests, in Nemiche, M. and Essaaidi, M. (Eds.), Advances in Complex Societal, Environmental and Engineered Systems, Complex Systems Series, (to be published by Springer, 2016).

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Nóbrega, L. – O Editor MetaSketch, Construção Reflexiva de Linguagens de Modelação (Joint supervision with Nuno Jardim Nunes), Universidade da Madeira, 2007.

Coelho, F. M. G. - Emergência e Colapso de Poder, FCUL, 2006.

Flores, C. – Negociação Pedagógica Aplicada a um Ambiente multiagente de Aprendizagem Colaborativa, (Joint supervision with Rosa Vicari, from UFRGS/II), UFRGS (Brazil), 2005.

David, N. – Verificação Empírica e Intencional de Programas. Simulação Social Baseada em Agentes, (Joint supervision with Jaime Sichman da USP, Brazil), FCUL, 2004.

Urbano, P. – Jogos Descentralizados de Consenso ou de Consenso em Consenso, FCUL, 2004.

Moniz, L. – Metodologias e Ferramentas para o Desenvolvimento de Aplicações Baseadas em Agentes, FCUL, 2003.

Silva, J. B. – Uma Arquitectura Multiagente para um Sistema de Processamento de Línguas Naturais Robusto e Evolutivo, (Joint supervision with Gabriel Pereira Lopes, UNL), FCUL, 2003.

Neto, J. – Construção Modular de Redes Neuronais Recorrentes Analógicas, (Joint supervision with José Félix Costa from IST/UTL), FCUL, 2002.

Antunes, L. A. S. – Agentes com Decisões Baseadas em Valores, FCUL, 2001.

Caldas, J. M. C. – Escolha e Instituições, uma Análise Económica Apoiada na Simulação Multiagentes, ISCTE, 2000.

Ladeira, M. – Diagrama de Influências Múltiplo Seccionado, (Joint supervision with Rosa Vicari from UFRGS/II), UFRGS (Brazil), 2000.

Louçã, J. – Cartographie, Refléxion Stratégique et Interaction Distibouée: une Approache Multi-agent, (Joint supervision of an european PhD with Suzanne Pinson da UPD, Paris), Université Paris-Dauphine (France) e FCUL, 2000.

Botelho, L. - Realização de Agentes Inteligentes: uma Abordagem Inspirada nos Modelos Cognitivos de Tomada de Decisão, ISCTE, 1997.

Gaspar, G. - Modelização de Agentes Inteligentes Autónomos Inteligentes e Integrados em sociedades de agentes, FCUL, 1994.

Corrêa, M. - A Arquitectura de Diálogos entre Agentes Cognitivos Distribuídos, UFRJ (Brazil), 1994.

Viccari, R. - Um Tutor Inteligente para a Programação em Lógica: Idealização, Projecto e Desenvolvimento, FCT, Universidade de Coimbra, 1990.

Lopes, G. P. - Conceptualização de um Interlocutor Automático, IST/UTL, 1986.

- Researcher´s (2)

Távora, J. - Percurso da Ferramenta no Corte de Formas de Vestuário, Métodos Heurísticos para um Novo Problema de Optimização Combinatória, LNETI, 1989.

Cotta, J. C. - DB-PROLOG, um Sistema Portável Baseado em Soluções Simples, mas Adequadas, LNEC, 1986.

- MSc´s (29)

Henriques, T. A. – Monitorização Aplicacional – Sputnik, Checklist e Gareway Asterik, MEI, 2012.

Graça. J. M. – Hofstede´s Cultured Negotiation Agents, FCUL, MCCog 2012.

Pipa, F. – A Evolução Cultural da Cooperação, (Joint supervision with Francisco Santos), FCUL, MCCog, 2011.

Luis, D. M. X. – Solução Integrada de Gestão de Investimentos com Gestão de Projectos e Reporting de Gestão, FCUL, MEI, 2007.

Gomes, L. M. P. – SAD – Sistemas de Apoio à Decisão, FCUL, MEI, 2007.

Calado, M. P. – Sistema de Apoio ao Serviço Nacional de Saúde Baseado em Agentes, FCUL, MEI, 2006.

Cascalho, J. – Um Laboratório para Inteligência Artificial Distribuída, FCUL, 1999.

David, N. – Modelling an Implementing And and Or-dependencies in Social Reasoning, FCUL, 1998.

Fernandes, J. D. - Organizações de Agentes: conceitos e sua modelação, IST/UTL, 1997.

Amaral, M. B. M. - Utilização experimental da Inteligência Artificial no problema da gestão do tráfego numa área metropolitana, ISEG/UTL, 1996.

Eusébio, A. M. - Ambiente de aprendizagem em matemática apoiado em agentes autónomos inteligentes, ISEG/UTL, 1995.

Lopes, M. F. - A gestão da mudança. Uma visão dinâmica da substituição de viaturas numa frota, ISEG/UTL, 1995.

Quintela, A. - Esboço de um protótipo de um modelo de apoio à gestão de produção, ISEG/UTL, 1995.

Conceição, C. M. P. – Gestão de carteira de obrigações, protótipo de um sistema de informação, ISCTE, 1994.

Azevedo, C. - Núcleo de um tutor para SQL, IST/UTL, 1993.

Antunes, L. - Intenção e acção, IST/UTL, 1993.

Moniz, L. - SSAA, uma bancada para simulação de agentes e de ambientes, IST/UTL, 1993.

Monteiro, M. R. - O problema da aceitação do tráfego de grupos numa companhia aérea, ISEG/UTL, 1993.

Cruces, J. - Optimização de redes de transporte e de distribuição de gás, ISEG/UTL, 1992.

Campagnolo, M. - Proposta de um método para integração de conhecimento em classificação, ISEG/UTL, 1992.

Caldas, J. M. - Oligopólio, experiências com agentes reais e artificiais, ISEG/UTL, 1992.

Almeida, L. F. - Tutor inteligente INFOLOG, esboço de um sistema computacional para suportar um novo método de ensino, IST/UTL, 1992.

Ramos, P. - Assistente de laboratório industrial de controlo de qualidade, protótipo de um sistema de apoio à decisão, ISCTE, 1992.

Brandão, J. C. - Aplicações da inteligência artificial à resolução do problema da distribuição, ISEG/UTL, 1991.

Paiva, A. - Concepção de um sistema para a disseminação de conhecimento em organizações, IST/UTL, 1990.

Fonseca, M. F. - Minimização da afectação de recursos num problema de calenderização de tarefas, ISEG/UTL, 1989.

Botelho, L. M. - Um sistema baseado em conhecimento de organizações, estudo de um caso, IST/UTL, 1988.

Martins, L. M. - CONFIGURADOR, sistema pericial de apoio ao preenchimento de bases de dados de uma estação de transito digital, FCTUC, 1988.

Viccari, R. - Sistema para a instrução assistida por computador em inteligência artificial, UFRGS (Brasil), 1985.

- Scientific and Pedagogic Skills (3)

Nóbrega, L. – Espacificação Visual de Agentes, Departamento de Matemática, Universidade da Madeira, 2001.

Abrantes, M. G. - Estrutura dos sistemas de informação, modelo entidade-relação, modelo relacional, ISA/UTL, 1988.

Botelho, L. M. - Um sistema baseado em conhecimento de programação, caracterização e definição, ISCTE, 1988.

Research Working Periods (Sandwich kind) at LabMAg (4)

Franco, M. (UFRGS) 6 meses em 2007.

Adamati, D. – Inserção de Jogadores Virtuais em Jogos de Papéis para Uso em Sistemas de Apoio à Decisão: um Experimento no Domínio da Gestão de Recursos Naturais (Joint supervision with Jaime Sichman), Universidade de São Paulo (USP), 2007. 6 meses em 2006.

Flores, C. (UFEGS) 2 anos em 2003 e 2004.
Ladeira, M. (UBrasília) 2 anos em 1998 e 1999.

Post-Docs at LabMAg (4)

Guilherme, Ivan R. (UNESP) 3 meses em 2011/12.
Rosa Vicari (UFRGS), 2011.
Rosa Vicari (UFRGS), 2005.
Marar, F. (UNESP), 2011.
Marar, F. (UNESP), 2010.
António Rocha Costa e Graçaliz Dimuro (FURG), 2009.
Jaime Simão Sichman (USP), 2000.

Current Pos-Graduate Students
PhD
Carlos Miguel Lemos Complexity Science (2012-)

MSC
Gustavo Martins Informatics Engieering (2012-)
Jorge Amorim Cognitive Science (2012-)
Rui Fernandes Cognitive Science (2012-)
Vilma Silva Cognitive Science (2012-)
Xavi Arias Segui Complexity Science (2012-)