



## Summary

Eugénio Oliveira got his degree in Electrotechnical Engineering (Electronic Systems) in 1972. He was R&D Engineer at Brown, Boveri, C. (now ABB) Electronic R&D Laboratories in Switzerland (72-74) under the supervision of Prof. Eggiman (ETH-Zurich).

In 1980 he went to the New University of Lisbon where he got his **PhD** with a thesis on Knowledge Engineering and Logic Programming applications (1984).

Eugénio Oliveira was invited **Guest Academic at IBM IEC** in Belgium (84-85). There, besides teaching Knowledge Based Systems, he launched projects on Logic Programming and Expert Systems. He was also benchmarking the new IBM Prolog.

In 1987 he created the Distributed Artificial Intelligence & Robotics Group at the Faculty of Engineering of the University of Porto and, in 1989, was co-founder of LIACC- Artificial Intelligence and Computer Science Group at the University of Porto. LIACC includes different groups working on Multi-Agent Systems, Intelligent Robotics and Computer Science. He was **LIACC's coordinator** for several periods of time and Director for the period 2011- 16.

Eugénio Oliveira is Full Professor in Informatics at the University of Porto since 2000. He got his "Agregação" title in 1991 at the University of Porto. He presented a seminar on "Distributed Artificial Intelligence and Robotics".

He successfully **supervised 24 PhD** students and more than 60 Master students. He is supervising or co-supervising 5 on-going PhD theses.

He was the main proponent and **Director** of the Doctoral Program in Informatics Engineering at the University of Porto -**PRODEI** (2005-18). He was the **Director** of the first Master in Informatics (**MEI**) at FEUP (2003-06).

He was the main **proponent** for the creation of the **Department of Informatics** at the University of Porto's Engineering School (Faculdade de Engenharia da UP). He successfully led the installation process (2007-8).

He was member of the **Scientific Board** of Fundação Gulbenkian's Program **for New Talents in AI** (ended in 2021).

He was involved in many **research projects**, some of which funded by the European Union. He recently lead the University of Porto's team in the SIMUSAFE Project funded by E.U. H2020 Program.

He is a co-author of the **book** "A New Approach for Disruption Management in Airline Operations Control", in Studies in Computational Intelligence Series Vol.562 (300 pp.), Springer Verlag (2014).

He was co-author of **ORBI** (1980-83), a realistic Prolog-based Expert System for decision-making based on biophysical factors, software system sold to the Portuguese **government**.

He, together with his supervisor L. Moniz Pereira, was awarded the **Gulbenkian Prize for Science and Technology** in 1983-4.

He published about 400 papers (426 entries in Google Scholar: [https://scholar.google.com/citations?hl=en&user=G1O95CsAAAAJ&view\\_op=list\\_works](https://scholar.google.com/citations?hl=en&user=G1O95CsAAAAJ&view_op=list_works)), mainly in the field of autonomous software agents and multi-agent system applications as well as Text mining and intelligent Robotics (see details below).

Two of his PhD students launched startups as a result of their theses work. With his group, he developed ANTE (Agreement Negotiation in Normative and Trust-enabled Environments) a new platform to facilitate Virtual Organizations formation and monitoring. With his former PhD student, L.P.Reis, he co-authored a paper (226 citations) on strategies

for team coordination that lead to several RoboCup awards in different leagues. He co-authored 4 chapters of the book “Agreement Technologies”, ed. Sascha Ossowski, Springer 2013, in which the technological and scientific principles behind ANTE are described. He has recently published on machine learning topics like **text mining**.

**(in September 2022) Nr. of Citations=5634, H-index=35 and i-10 index= 153, in Google Scholar Citations.**

He was **General co-Chair** of the 18<sup>th</sup> EPIA- Artificial Intelligence Conference, 2017. He was one of the **area chairs** at the **European Conference on Artificial Intelligence - ECAI 94** (Amsterdam), ECAI 96 (Vienna) and ECAI 2008 (Patras). Vice Chair at IEEE WI/IAT (Intelligent Agents Technology) 2011 (Lyon). He was a **co-founder of APPIA**, Portuguese AI Association.

Eugénio main influence has been in directing, collaborating, promoting and supporting activities leading to AI-based applications as it the case of MASDIMA a Multi-Agent System for Air traffic plan-disruption Management, ANTE platform for B2B partners selection, Promoting FCPortugal RoboSoccer teams, ORBI and ARCA– an Expert System for Cardiac Arrhythmia Diagnosis, that were important breakthroughs at the time of their development. He is now giving seminars on “AI for Social Good”.

## CV Details

- *Eugénio Oliveira*
- Born in Porto, Portugal in 1948. He has two daughters.

## Positions

- Professor EMERITUS at the University of Porto
- (Retired) Full Professor at the University of Porto (since August 2018).
- Member of the Scientific Board of the “New Talents for AI” funded by the Calouste Gulbenkian Foundation (2017-2021)
- Director of LIACC (Artificial Intelligence and Computer Science Laboratory) at the University of Porto (2008-2009, 2011-2016).
- Coordinator of DAIAS (Distributed Artificial Intelligence and Agent-based simulation Group) at the Faculty of Engineering of the University of Porto- FEUP, (1988- 2018).
- Director and founder of the PhD Program on Informatics Engineering (2005-18).
- Director of MEI- Masters Course in Informatics Engineering (2003-6) and Co-director of the Master’s Course in Artificial Intelligence and Intelligent Systems at the University of Porto (till 2010). Member of the Scientific Committee of MIEIC- Master in Informatics Engineering (FEUP).

## Areas of Interest

- His current topics of interest include Artificial Intelligence issues for Social Good, Multi-Agent Systems architectures and applications, Agents for trustworthy Networking (Negotiation, Trust and Reputation, Normative environments, Electronic Contracts), "Emotional-like" Agents, Learning and Adaptive Agent Strategies for Co-operation and Conflict Resolution. Text Mining for knowledge and information extraction.

## Degrees

- Habilitation (“Agregação”) at the University of Porto in 1991, (AI and Intelligent Robotics).
- PhD in Artificial Intelligence at Universidade Nova de Lisboa in 1984.
- “Licenciatura” in Electrical Engineering (Electronic Systems) at the University of Porto in 1972.

## Awards

- Awarded with the Gulbenkian Prize for Science and Technology in 1983-4 (ex-aequo).
- We was co-author of 6 awarded best papers or demos at different conferences and workshops.
- PhD thesis by A. Castro, supervised by E. Oliveira was awarded with the 2<sup>nd</sup> prize of the Fraunhofer Portugal Challenge for PhD Theses in 2013.
- He got the “Research Incentive” award at the Faculty of Engineering, University of Porto in 2008.
- One of his students, under his supervision, got the 1st Prize on Specific Programs at the 2nd National Contest for Educational Software organized by the Portuguese Ministry of Education in 1990.
- One of his students, under his supervision, got the Honorable Mention for the Innovation and Creativity Award promoted by Digital Equipment Corporation and Fundetec in 1987.

## Other Past Positions

- Scientific Coordinator of SAPO Lab at FEUP, a partnership with PT and SAPO (2010-16).
- Appointed Director for the creation of the Informatics Department at the Faculty of Engineering, University of Porto (2007-08).
- Elected Coordinator of Informatics Section at the Electrotechnical and Computers Department at FEUP (2002-7)
- First proponent and Director of MEI- Mestrado em Engenharia Informática, FEUP, (2003-06).
- Director of MIASI- Master on Artificial Intelligence and Intelligent Systems at FEUP (2004-2009).
- co-Director of MIAC- Master on Artificial Intelligence and Computing at the University of Porto (1996-2003).
- Member of the Coordinating Board of LIACC – Artificial Intelligence and Computer Science Lab at the University of Porto, since its foundation in 1988.
- Portuguese Delegate to the Management Committee of COST Action IC0801, Agreement Technology (2008-12).
- Member of the Scientific Board of Université de Technologie de Compiègne Unité de Recherche Associée- URA817, CNRS (1991-95).
- Member of the Project Management Group "Systems Engineering in Medicine", European Union COMAC-BME.
- Researcher at CEEUP, JNICT, and responsible for research Line 4 since 1987.
- "Guest Academic" at IBM/IEC in La Hulpe (Belgium) where he developed work on Logic Programming and Expert Systems Shells (84-85).

- He was, during sabbatical periods, invited Professor at the Universities of Nice/France (1996), London - Queen Mary and Westfield College (1998), Utrecht University (2010), LIG – Grenoble (2010), Universidad Rey Juan Carlos (2010), Institut d’Investigació Intel·ligència Artificial- CSIC/Barcelona (2010), École Nationale Supérieure de Mines. S.Etienne, France (2011).
- Portuguese representative for “Institut International de Intelligence Artificiel” (IIIA) based in France and funded by the Industry (Aerospacial/F, Shell/H, Solvay/B, Framatome/F, Alenia/I, Rhône-Poulenc/F) (1993).
- Member of the Installation Board of Polytechnic Institute of Viseu (1987-88).
- Associate and, first, Auxiliary Professor at the University of Porto (1984-93-2000).
- Researcher and PhD Student at the New University of Lisbon (1980-1984).
- Lecturer at the University of Porto (1975-1980).
- Selected for joining the Headquarters of DEC-Digital Equipments Corporation in Genève (1974).
- R&D Engineering in Electronics at Brown, Boveri, C. Switzerland (1972-74).

### **Lecturing at the University of Porto**

- He was responsible (or co-responsible) and lectured 5 different courses at the Doctoral Program in Informatics Engineering (2005-18), 2 in MAPI and 1 in MAP-Tele(2007-08, 09-10, 14-15).
- He was responsible and lectured 10 different courses on Algorithms, Agents, AI, Robotics, New Programming Paradigms at MIEIC (2006-2018).
- Responsible for 5 different courses at MEEC (1988-95), 3 at MIACC (1987-2001), 2 at MEI (2003-06) and 1 at MEE at U. da Madeira.
- He lectured 19 different (responsible for 8) courses on Logics, Informatics, Robotics, Artificial Intelligence and Mathematics at LEIC and LEEC (1974-2005).

### **Postgraduate Supervision:**

- He is currently responsible for 2 on-going PhD Theses on subjects including Text Mining, Trust and Reputation Models.
- He was supervisor of 24 successful PhD students’ Theses on Agents, Multi-agent Systems, Learning Agents, Platforms for Virtual Enterprises formation, Intelligent Robotics, Ontology services, IOT and Text Mining.
- He supervised more than 60 MSc. Theses and 5 French D.E.A. Theses (U.T. Compiègne).
- He supervised research work of 30 national and foreigner post-graduate students coming from Trier in Germany, Madrid in Spain, Compiègne in France, Curitiba and Porto Alegre in Brazil, Macau in China, Poland, Tetuan in Morocco, among others.

### **Research projects**

- He was coordinator of LIACC group in the project SIMUSAFE- Simulator of Behavioural Aspects for Safer Transport, (2017-2020) funded by European Union Program H2020.
- Participates on the FEUP team in C-ROADS H2020 EU funded Project (2017-20).
- He coordinated LIACC group in the projects RESPLAN, followed by eTEAM led by an “High Tech” company in Portugal (SISCOG) and funded by AdI (Portuguese Agency for the Innovation and QREN-National Strategic Framework of Reference).

- Collaborator in REACTION - Tecnologia de Recuperação, Extração e Agregação de Informação para Integração e Organização de Notícias (UTA-EST/MAI/0006/2009) funded by UT-Austin/Portugal Program (2010-2014).
- He was, responsible for coordinating several projects on Electronic Institutions for Virtual Enterprises, and Robotics funded by the Portuguese Science Foundation (FCT) “Confiança e Reputação na Negociação de Contratos Electrónicos por Agentes em Ambientes Normativos Adaptáveis”(2010), LEMAS (2003), “Instituição Electrónica incluindo Contratação Automática para Organizações Virtuais”(2005), Portus (2002), AVOEC (2001)
- He was researcher in, and Portuguese delegate for, “Agreement Technology” COST Action (IC0801) funded by EU (since 2008).
- He was co-founder of AGENTLink (I and II) European Network of Excellence; he was a member of the Special Interest Group on Agent-mediated Electronic Commerce.
- He was responsible for bi-lateral projects U.Porto – University of London (QMWC) funded by the British Council (1993) and U. Porto SZTAKI, Budapest funded by JNICT and OMFB in Hungary (1996-7).
- He was involved in a number of Projects including a 5 years European Union funded Project (ARCHON) in Distributed Artificial Intelligence (Multi-Agent Systems) and Multi-Agent decision support systems based on Environmental factors.
- He was the Coordinator of an EU funded ALFA Project including researchers of UK, France, Brazil, Argentina and Portugal (XMAS Project) (1996-7).
- Collaborator of European Network of Excellence in Computational Logics COMPULOG,

#### **Other Activities & Positions**

- He was member of the Editorial Boards of the following Journals: “Autonomous Agents and Multi-Agents Systems International Journal” (until 2013), “International Journal of Artificial Intelligence (IJAI)” CESER Publications, (2016-), “Agent Oriented Software Engineering”, “Progress in Artificial Intelligence”, Springer, Inderscience, “Intelligent Decision Technologies”, IOS Press (until 2012).
- He was a member of: IEEE Systems, Man and Cybernetics Society Technical Committee on Computer Supported Cooperative Work in Design; Working Group AIFIPP "Artificial Intelligence From the Information Processing Perspective" of IFIP TC12; International Technical Working Group on Robotics of SPIE, USA.
- Member of the Advisory Board of APPIA- Portuguese AI Association.
- Member of the Program Committee or Area Chair of several International AI conferences including the European Conference on Artificial Intelligence – ECAI 2008 (area chair for Agents), ECAI94, ECAI92, International Conference on Multi-Agent Systems - ICMAS99 and ICMAS2000, Autonomous Agents - AA98, AA99, AA2000 and AAMAS’08, etc.
- He was Project evaluator for ANR- Agence Nationale de Recherche, France (2011)
- He was Project evaluator for Esprit program (1993- 2001)
- Project evaluator for SION, The Netherlands (1994-5).
- He currently is Project evaluator for the Portuguese Science Funding Foundation (FCT)
- Project evaluator for the Ministry of Education in Madrid (2009).
- Member of the Scientific Committee for CNRS “Unitée de Recherche Associée”URA817 at the University of Compiègne, (1990-93).
- Represented LIACC at European Union ICT2005, Lisboa,

- Collaboration with IBM/Deutschland. Joint work supervision of three post-graduated students in Sindelfingen (1986, 1996).
- Collaboration with Lyonnaise des Eaux company in France where he cosupervised two post-graduate students.(1990-91).
- Collaboration with CERN to where he have sent LEEC students (1986, 87, 2002).
- Collaboration with University of Chong Quing, China, for supervising Long Qiegang, (1991).
- Collaboration with UvA (Amsterdam) for a joint supervision of a PhD student (P.Lopes) (1992).
- Collaboration, under TEMPUS program with University of Brno (1993).
- Participation in more than one hundred juries for PhD, Maitre de Conférences and Agregação in Portugal, Spain, France and Brazil.
- Participation on more than 50 contests for the position of associated and Full Professor.

### **Organization of Conferences (partial)**

Besides being member of Program Committees of more than one hundred Conferences and workshops, we here point out an sub-set of scientific events organization membership:

- Co-organizer, with Prof. Barbedo Magalhães and J. Falcão e Cunha, of "Evolução e Futuro da Inteligência Artificial", a session under "Novos Paradigmas initiative", FEUP, March 11, 2019.
- General co-Chair of 18<sup>th</sup> EPIA-Artificial Intelligence Conference, September 2017.
- Moderator and participant at the panel "Beneficial AI" in 18th EPIA-Conference on Artificial Intelligence, 2017
- Research Track Chair da BESC 2017 - The 4th International Conference on Behavioral, Economic, and Socio-Cultural Computing AGH - University of Science and Technology, Krakow, POLAND, 2017.
- Area Chair at ECMLPKDD- European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, Porto, 2015.
- Co-organizer of "Intelligent Agents and Technologies for Socially Interconnected Systems" (IAT4SIS), Workshop at ECAI 2014 - 21st European Conference on Artificial Intelligence.
- Program Vice-Chair of "The 2011 IEEE/WIC/ACM International Conference" on Intelligent Agent Technology", Lyon, France 2011.
- Co-Organizer of IAT4EB- Intelligent Agents and Technologies for E-Business, Workshop at ECAI 2010- 19th European Conference on Artificial Intelligence, 2010.
- "Area co-Chair" (for Autonomous Agents) at the European Conference on Artificial Intelligence, ECAI, Patras, 2008.
- Co-organizer of the Special Track in "Holonc and Multi-Agent Technologies for Industrial Systems" at the 12nd IFAC Symposium on "Information Control Problems in Manufacturing", Saint Etienne, 2006.
- Co-organizer of BESAI 2006 and 2004- Binding Environmental Sciences and Artificial Intelligence. European Conference on Artificial Intelligence Workshop, Italy 2006, Valencia 2004.
- Co-Organizer of 4<sup>th</sup> MASTA- Multi-Agent Systems Theory and Applications at 13<sup>th</sup> EPIA- Portuguese AI Meeting, Covilhã, in 2005.

- Vice-Chair of 2005 IEEE/WIC/ACM International Conference on Intelligent Agent Technology, WIC-IAT, Compiègne, France, 2005.
- Co-Organizer of “Affective Computing” Workshop at 13<sup>th</sup> EPIA- Portuguese AI Meeting, Covilhã, 2005
- Co-organizer of the International Joint Conference on Autonomous Agents and Multi-Agent Systems Workshop "Learning and Evolution in Agent Based Systems", Columbia University, New York, 2004.
- Area Chair for Robotics at the Third International Conference on Autonomous Agents: Agents'99, Seattle, USA, 1999.
- Co-chair of the MASIF'98 Workshop on Multi-Agent Systems: Improving Functionalities, Prague, 1998.
- Organizer and co-Chair of the Advanced School on Distributed Artificial Intelligence (with H.Coelho), under the auspices of the Portuguese Association of Artificial Intelligence, 1994.
- Area Chair for "Enabling Technologies and Systems", ECAI 92 in Vienna, 1992.
- Area Chair for "Robotics", 11<sup>th</sup> ECAI 94 in Amsterdam, 1994.
- Organizer and co-Chair of the Multi-Agent Systems' Workshop MASTA'97 (with Nick Jennings) and MASTA'01.

#### **International Seminars and Invited Lectures (a selection)**

- Keynote Speaker at 2019 IEEE 23<sup>rd</sup> International Conference on Computer Supported Cooperative Work in Design (IEEE CSCWD 2019). "The Quest for Beneficial AI", Eugénio Oliveira, May 6-8, 2019.
- Invited Speaker at ICONE4- International Conference on Neuroethics, 2018, Catholic University, Porto, where he presented “The Quest for Beneficial AI”, 2018.
- Invited Speaker at IEEE Iberian Student Branch Congress, “Want to know LIACC and PRODEI research?”, FEUP, 2013.
- Invited Speaker at IEEE 16th International Conference on Intelligent Engineering Systems, where he presented “Software Agents: Can We Trust Them?”, 2012.
- Seminar on “Electronic Institutions Research and implementation”, ISCOD, ENSM de Saint-Étienne, France, 2011.
- Invited speaker at SEE-MAS'10- South Eastern European Multi-Agent Systems Summer Scholl, Bucharest, 2010.
- Member of the Panels at “Interdisciplinary workshop in Trust and Reputation”, Université Paris-Descartes, 2010, and “on Trust” 7th European Workshop in Multi-Agent Systems, Chipre, 2009.
- Invited speaker at the conferences: DoCEIS 2010, Costa da Caparica, February 2010.
- Invited speaker at ISAP - Intelligent Systems Applications in Power Systems Conference, Lemnos, Greece, 2003.
- Invited lecture at the 9th European Coordination Committee in AI Advanced Course, in Prague, 2001.
- “Keynote speaker” at SBAI'99 – Brazilian Symposium for the Intelligent Automation, S. Paulo, 1999.
- Lectures were given on “Artificial Intelligence for Engineering” at the Université de Rennes(1996 and 1997) and Hoghschool in Rotterdam 2000 under the Erasmus/Sócrates European program.
- He gave lectures on "Cooperating Expert Systems" at the University of Brno, Check Republic under Tempus program in 1993.

- Seminars at Ecole National Supérieur de Mines de St-Étienne, Centre SIMMO, 2003 ; XEROX Research Center, Meylan, France, 2002; DFKI, Saarbrucken, Germany 2001; Pontifícia Universidade Católica de Porto Alegre, Brasil, 1997; Universidade Federal do Rio Grande do Sul, 1996; Hitachi Labs, Kukubunji, Japan, 1993.
- He gave lectures on “Knowledge Based Systems” at the International Education Center of IBM in Europe (La Hulpe) (1984/5/6).
- Two seminars on « Expert Systems and Prolog » at Kahtolieke Universitait Leuven and Université Catholique de Louvain-la-Neuve (1985).

### **In Portugal (Most recent ones) :**

- "A Inteligência Artificial e o seu impacto", Eugénio Oliveira, in "Conferências de Arouca", Círculo Cultura e Democracia, 1 de junho 2019.
- “Segurança e Inteligência Artificial” in Novos Paradigmas, Debates e Iniciativas na FEUP, Evolução e Futuro da Inteligência Artificial, Repercussões Técnicas, Económicas, Sociais e Culturais: Desafios e Riscos Éticos”, January 2019.
- "Beneficial AI: The Next Battelfield", Eugénio Oliveira, Invited presentation at TEDx Matosinhos, 16 de dezembro 2018.
- “Nada mais Natural que a Inteligência Artificial”, Jubilation ceremony, FEUP, September 2018.
- "IA: Promessas e Ameaças", "Pint of Science Portugal", Porto, May 2018.
- "Methodologies for Scientific Research: just a few ideas", 2ª Wokshop of the Program "Novos Talentos em Inteligência Artificial", Fundação Calouste Gulbenkian, March 2018.
- "A Inteligência Artificial: impacto e ética", 3º Encontro de Ciência Candida Madureira, at Escola Superior de Saúde do Vale do Ave, V.N. Famalicão, February 2018. Published online in journal VILANOVA.
- "Quem tem medo da IA", in "Separação entre a Consciência Humana e a Inteligência Artificial" promoted by GAF - Grupo de Ação Filosófica da Universidade do Porto, May 2017.
- “Beneficial AI: The Next Battle field”, in International Conference on Artificial Intelligence and Information, Fac. de Letras, Universidade do Porto, December 2017.
- “Beneficial AI” in “Entre o equilíbrio e o tombo– Investigação e inovação responsáveis sob observação”, Reitoria da Universidade do Porto, Biblioteca, September 2017.
- “A inteligência artificial um perigo para a humanidade?”, promoted by Sociedade de Debates da Universidade do Porto (SdDUP), Faculdade de Ciências da Universidade do Porto, February 2017

### **Prototypes (a selection)**

- MASDIMA- Muti Agent Systems for Disruption Management; co-author with 1 PhD (A. Castro) and 3 Master students. Now a product at a startup. (2014)
- ANTE- Agreement Negotiation in Normative and Trust-enabled Environments; co-author with 4 PhD students (A.P.Rocha, A. Malucelli, H. Cardoso, J.Urbano). (2013).
- UPShell, Cooperative and Distributed Expert Systems Generator. Co-author with 2 PhD students (F. Mouta , R. Camacho). Delivered to the ARCHON consortium. Demonstration given at Hanover Fair. (1993).
- ARCA, Expert System for Cardiac Arrythmia Diagnosys. Co-author with 1 Master student (J.Rocha) and Prof. C. Barbosa. Delevered to the “Serviços de Cardiologia do Hospital de S.João” (1992).



- SUD, Intelligent Tutorial System; Co-author with one Masters student (V. Meireles) Delivered to “Programa Minerva” (1991).
- ORBI, Expert System for Plan and Land Management, under the supervision of Prof. L.M.Pereira Sold to the Portuguese government (1984).

## Publications

- **Nr. of Citations=5573, H-index=34 and i-10 index= 153, in Google Scholar. In Scopus scientific database: n. documents=258, citations=2018, h-index=19.**
- Number of documents referred in ORCID =317
- 423 entries in Google Scholar. I have traced back the publication source of 374.
- **Publications in:**
  - Book: 1
  - International Journals:44
  - National Journals: 2
  - Book Chapters: 31
  - International Conferences: 226\*
  - National and Regional Conferences: 8
  - International Workshops: 58
  - Abstracts, Posters: 4

(\* EPIA- International Conference in AI, although organized under APPIA- Portuguese AI Association is considered of international scope and proceedings are always published by Springer).

## A SELECTION of significant publications (out of 374):

- Books:
  - António J.M.Castro, Ana Paula Rocha, Eugenio Oliveira. "A New Approach for Disruption Management in Airline Operations Control", book in Studies in Computational Intelligence V.562 (300 pp.), Springer Verlag, ISBN: 978-3-662-43372-0, 2014.
  - Eugénio Oliveira, João Gama, Zita Vale, and Henrique Lopes Cardoso (Editors). "Progress in Artificial Intelligence" Proceedings of 18th EPIA Conference on Artificial Intelligence, EPIA 2017, Lecture Notes on Artificial Intelligence, V.10423, Springer, 2017.
- 5 Most cited papers [GS citations, December 2019]:
  - Paula Carvalho, Luís Sarmento, Mário J Silva, Eugénio de Oliveira, “Clues for detecting irony in user-generated contents: oh...!! it's so easy;-)”, Proceedings of the 1st international CIKM workshop on Topic-sentiment analysis for mass opinion, 53-56, ACM, 2009 [333 citations].
  - Luís P. Reis, Nuno Lau, Eugénio Costa Oliveira, “Situation Based Strategic Positioning for Coordinating a Team of Homogeneous Agents”, in Balancing Reactivity and Social Deliberation in Multi-Agent Systems, From RoboCup to Real-World Applications, eds Markus Hannebauer, Jan Wendler, Enrico Pagello. LNCS, V. 2103, pp. 175-197, Springer, 2001 [226 citations].
  - Eugenio Oliveira, Klaus Fischer, Olga Stepankova, [Multi-agent systems: which research for which applications](#), Robotics and Autonomous Systems, V. 27, Issue1, pp.91-106, North-Holland, 1999 [219 citations].

- Eugénio Oliveira and Ana Paula Rocha, "Agents advanced features for negotiation in Electronic Commerce and Virtual Organisations formation process", in *European Perspectives on Agent Mediated Electronic Commerce*, LNAI 1991, Springer Verlag, 2001 [152 citations].
- M Bošnjak, E Oliveira, J Martins, E Mendes Rodrigues, L Sarmiento, "Twitterecho: a distributed focused crawler to support open research with twitter data", *Proceedings of the 21st International Conference on World Wide Web*, 1233-1240 [129 citations]
- International Journals (5 examples):
  - Rodrigues, N., Oliveira, E., Leitão, P. "Decentralized and on-the-fly agent-based services reconfiguration in manufacturing Systems", *Computers in Industry*, 101, pp. 81-90, 2018 (Q1)
  - Daniel Silva, Rodrigo A.M. Braga, Luís Paulo Reis, Eugénio Oliveira: Designing a Meta-Model for a Generic Robotic Agent System using GAIA Methodology. *Information Sciences*, Volume 195, pp. 190-210, July 2012, Elsevier, (Q1)
  - Daniel Castro Silva, Vasco Vinhas, Luís Paulo Reis and Eugénio Oliveira. "Biometric Emotion Assessment and Feedback in an Immersive Digital Environment", *International Journal of Social Robotics*, Vol. 1, Issue 4, pp. 307-317, November 2009, Springer. 2009 (Q1)
  - Henrique Lopes Cardoso, Eugénio Oliveira (2008). "Electronic Institutions for B2B: Dynamic Normative Environments", *Artificial Intelligence & Law* (special issue on Agents, Institutions and Legal Theory), Springer, Vol. 16, No. 1, March 2008, pp. 107-128. (Q1)
  - Malucelli, Andreia; Palzer, Daniel; Oliveira, Eugénio. "Ontology-based Services to help solving the heterogeneity problem in e-commerce negotiations". in *Journal of Electronic Commerce Research and Applications - Special Issue Electronic data engineering: the next frontier in e-commerce*. Vol. 5(1), pp. 29-43, Elsevier, 2006. (Q1)
- Book Chapters (5 examples):
  - Henrique L. Cardoso, J. Urbano, Ana P. Rocha, A. Castro, E. Oliveira, " ANTE: A Framework for integrating Negotiation, Norms and Trust", in *Social Coordination Frameworks for Social Technical Systems*, ed. Huib Aldewereld et al., Series: Law, Governace and Technology, V. 30, pp. 27-45, Springer, 2016,
  - Nicoletta Fornara, Henrique Lopes Cardoso, Pablo Noriega, Eugénio Oliveira, Charalampos Tampitsikas, "[Modelling Agent Institutions](#)", in S. Ossowski (ed.), *Agreement Technologies, Law, Governance and Technology Series*, Chpt 18, Volume 8, Springer, pp. 277-307. 2013.
  - J. Urbano, Ana Paula Rocha, Eugénio Oliveira. "[Trust Evaluation for Reliable Electronic Transactions between Business Partners](#)", in *Agent-Based Technologies and Applications for Enterprise Interoperability*, (Eds.) Klaus Fisher, Jorg Muller, Renato Levy, *Lecture Notes in Business Information Processing*, V.98, Springer, pp. 219-237.
  - V. Vinhas, Eugénio Oliveira, Luís Paulo Reis, [BioStories: Dynamic Multimedia Environments Based on Real-Time Audience Emotion Assessment](#), *Enterprise Information Systems, Lecture Notes in Business Information Processing* Volume: 73 Pages: 512-525, Springer, 2011

- Antonio J.M. Castro and Eugenio Oliveira. "[Airline Operations Control: A New Concept for Operations Recovery](#)", Airline Industry: Strategies, Operations and Safety, Connor R. Walsh (Ed.), pp. 61-97, Series: Transportation Infrastructure - Roads,Highways,Bridges,Airports and Mass Transit,Nova Science Publis., 2011
- Proceedings of Internacional Conferences (10 examples):
  - Henrique Lopes Cardoso, Eugénio Oliveira. "Flexible Deadlines for Directed Obligations in Agent-based Business Contracts", in Decker, Sichman, Sierra and Castelfranchi (eds.), Proceedings of The 8th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2009), pp. 1307-1308, Budapest, Hungary, May 10–15, 2009. (CORE A\*)
  - Luis Nunes and Eugénio Oliveira, "Learning from Multiple Sources", in AAMAS' 04 - Autonomous Agents and Multi/Agent Systems , New York, July 20, ACM Press, pp.1106-1113,2004 (CORE A\*)
  - Alexessander Alves, Rui Camacho & Eugenio Oliveira, "Discovery of Functional Relationships in Multi-Relational Data using Inductive Logic Programming", in Proceedings of the International Conference on Data Mining , IEEE Computer Society Press, pp.319-322, 2004. (CORE A\*)
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- He is/was a member of the following organizations:
  - Associação Portuguesa para a Inteligência Artificial (co-Founder)
  - AIFIPP Working Group da IFIP TC12
  - International Society for Optical Engineering SPIE ("TWG in Robotics")
  - Associação Portuguesa de Robótica (member of the executive committee of the 1st association)
  - Associação Portuguesa de Informática
  - Sociedade Portuguesa de Engenharia Biomédica
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