tonipenya-alba

	Lucation
2012-2015	Ph.D. in Artificial Intelligence, Universitat de Barcelona, UB.
2011–2012	M.Sc. in Artificial Intelligence, Universitat Politecnica de Barcelona, UPC.
2002-2009	Bachelor in Computer Science, Autonomous University of Barcelona, UAB.
	Thesis
title	Approximate algorithms for decentralized Supply Chain Formation
advisors	Jesus Cerquides and Juan A. Rodriguez-Aguilar
research centre	Artificial Intelligence Research Institute (IIIA-CSIC)
qualification	Cum laude
	Master thesis
title	Scalable decentralized supply chain formation through binarized belief propagation.
advisors	Jesus Cerquides and Juan A. Rodriguez-Aguilar
research centre	Artificial Intelligence Research Institute (IIIA-CSIC)
qualification	Matricula d'honor
	Working Experience
2011–2012	Predoctoral researcher, Artificial Intelligence Research Institute (IIIA-CSIC),
	Barcelona. Fostering robust business collaborations in uncertain scenarios.
2009–2010	IT Manager, Lotary Watches Ltd., Hong Kong.
2003 2010	Creation and supervision of the IT department for the asian branch of the company.
2007-2009	Software Engineer, Festina Group, Barcelona.
	Design and maintenance of several web applications for the technical and sales departments.
2005–2007	Programmer, Multi-acces, Barcelona. Tailor-made ERP system consultancy.
2003-2004	Programmer, Visualmoon, Barcelona.
	Graphical user interface and usability design.
	Projects
2012-present	COR: ROBUST COLLABORATIONS , <i>Ministerio de Ciencia e Innovacion</i> , TIN2012-38876-C02-01, 76.869€.
2011–2012	ENGINEERING SELF-* VIRTUALLY-EMBEDDED SYSTEMS, Ministerio de
2011-2012	Ciencia e Innovacion, TIN2009-14702-C02-02, 73.447€.
	5.55.2 55746.6m, 11112.605 11102 602 62, 10.111 61

Education

4.385.000€.

Agreement Technologies, Ministerio de Ciencia y Tecnologia, CSD2007-002,

Awards

ACIA's best Al work award., Awarded by the Catalan Artificial Intelligence Association to the best master thesis on AI, [http://www.acia.org/nodes/modules.php?name=news&idnew=107&idissue=27].

Reviews

The Computer Journal.

16th International Workshop on Agent-Mediated Electronic Commerce and Trading Agents Design and Analysis (AMEC/TADA2014)

International Joint Workshop on Optimisation in Multi-Agent Systems and Distributed Constraint Reasoning (OPTMAS-DCR2014).

11th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2012).

6th International Workshop on Optimisation in Multi-Agent Systems (OPTMAS2013).

24th International Conference on Database and Expert Systems Applications (DEXA2013).

24th International Conference on Electronics, Communications and Computers (CONI-ELECOMP2014).

Languages

spanish Mother tongue

catalan Mother tongue

english* Listening C1 Reading C1 Spoken interaction C1 Spoken production C1 Writing C1

* Common European Framework of Reference for Languages

Publications

Toni Penya-Alba. Approximate algorithms for decentralized Supply Chain Formation. PhD thesis, University of Barcelona, 2014.

Toni Penya-Alba, Meritxell Vinyals, Jesus Cerquides, and Juan A. Rodriguez-Aguilar. Exploiting Max-Sum for the Decentralized Assembly of High-Valued Supply Chains. In *13th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2014)*, 2014.

Toni Penya-Alba. From Supply Chain Formation to Multi-agent Coordination. In 12th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2013), 2013.

Toni Penya-Alba, Boris Mikhaylov, Marc Pujol-Gonzalez, Marc Esteva, Bruno Rosell, Jesus Cerquides, Juan A Rodriguez-Aguilar, Carles Sierra, Carlos Carrascosa, Vicente Julian, Miguel Rebollo, M. Rodrigo, and Mateo Vasirani. An environment to build and track agent-based business collaborations. In Sascha Ossowski et al., editor, *Agreement Technologies (Law, Governance and Technology Series)*, pages 609–622. Springer, 2013.

Toni Penya-Alba, Meritxell Vinyals, Jesus Cerquides, and Juan A. Rodriguez-Aguilar. CHAINME: Fast Decentralized Finding of Better Supply Chains. In *12th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2013)*, 2013.

Toni Penya-Alba, Meritxell Vinyals, Jesus Cerquides, and Juan A. Rodriguez-Aguilar. Social Value Propagation for Supply Chain Formation. In 6th International Workshop on Optimization in Multi-Agent Systems @AAMAS (OPTMAS 2013), 2013.

Toni Penya-Alba, Boris Mikhaylov, Marc Pujol, Bruno Rosell, Jesus Cerquides, and Juan A. Rodriguez-Aguilar. Tecnologia de subastas para la formacion automatizada de cadenas de suministro. *Novatica*, (218), july-august 2012.

Toni Penya-Alba. Master of Science Thesis. Scalable decentralized supply chain formation through binarized belief propagation. Master's thesis, UPC. Technical University of Catalonia, 2012.

Toni Penya-Alba, Meritxell Vinyals, Jesus Cerquides, and Juan A. Rodriguez-Aguilar. A scalable Message-Passing Algorithm for Supply Chain Formation. In *26th Conference on Artificial Intelligence (AAAI 2012)*, Toronto, 2012.

Toni Penya-Alba, Meritxell Vinyals, Jesus Cerquides, and Juan A. Rodriguez-Aguilar. RB-LBP: Scaling Up Decentralized supply chain formation. In 5th International Workshop on Optimization in Multi-Agent Systems @AAMAS (OPTMAS 2012), Valencia, 2012.

Toni Penya-Alba, Meritxell Vinyals, Jesus Cerquides, and Juan A. Rodriguez-Aguilar. Scalable decentralized supply chain formation through binarized belief propagation. In *11th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2012)*, pages 1275–1276, Valencia, 2012.

Toni Penya-Alba, Marc Pujol-Gonzalez, Marc Esteva, Bruno Rosell, Jesus Cerquides, Juan A Rodriguez-Aguilar, Carles Sierra, Carlos Carrascosa, Vicente Julian, Miguel Rebollo, M. Rodrigo, and Mateo Vasirani. ABC4MAS: Assembling Business Collaborations for MAS. In 2011 IEEE/WIC/ACM International Conferences on Web Intelligence and Intelligent Agent Technology (WI-IAT 2011), number 3, pages 431–432. IEEE, August 2011.