This volume contains revised versions of the papers presented at the 14th European Conference on Multi-Agent Systems (EUMAS 2016) and the 4th International Conference on Agreement Technologies (AT 2016), which were both held in Valencia during December 15th–16th, 2016. EUMAS 2016 followed the tradition of previous editions (Oxford 2003, Barcelona 2004, Brussels 2005, Lisbon 2006, Hammamet 2007, Bath 2008, Agia Napa 2009, Paris 2010, Prague 2014, and Athens 2015) in terms of aiming to provide the prime European forum for presenting and discussing agents research as the annual designated event of the European Association of Multi-Agent Systems (EURAMAS). AT 2016 was the fourth instalment in a series of events (after Dubrovnik 2012, Beijing 2013, and Athens 2015) that focus on bringing together researchers and practitioners working on computer systems in which autonomous software agents interact, typically on behalf of humans, in order to come to mutually acceptable agreements. A wide scope of technologies can help provide the support needed for reaching mutually acceptable agreements, such as argumentation and negotiation, trust and reputation, computational social choice, coalition and team formation, coordination and distributed decision making, and semantic alignment, to name a few.

This year, for the second time, both events were co-located and run as a single, joint event. This joint organisation aimed to encourage and continue cross-fertilisation among the broader EUMAS and the more specialised AT communities, and to provide a richer and more attractive program to participants. While the technical program was put together by their independent committees into conference-specific thematic sessions, they shared keynote talks and aligned their schedules to minimise overlap and enable participants to make the best possible use of the combined program of the two conferences. Traditionally, both conference series have always followed a spirit of providing a forum for discussion and an annual opportunity for primarily European researchers to meet and exchange ideas. For this reason, they have always encouraged submission of papers that report on both early and mature research. The peer-review processes carried out by both conferences put great emphasis on ensuring a high quality of accepted contributions. The EUMAS Program Committee accepted 17 submissions (32.7 %) as full papers and another 16 submissions (30.8 %) as short papers out of a total of 52 submissions. The AT review process resulted in the acceptance of 7 full (43.8 %) and 3 short papers (18.8 %) out of 16 submissions overall. This volume is structured as follows: in the first part, we present the two invited papers; in the second, we present the EUMAS papers, and in the third we present the AT papers. Papers of each part are then grouped into thematic areas, where we first present full papers, followed by short papers. For the EUMAS papers, the thematic areas are:

- Agent and Multi-agent System Models
For AT, the thematic areas are:

- Algorithms and Frameworks
- Applications
- Philosophical and Theoretical Studies

The editors would like to thank all authors for submitting to EUMAS and AT, all participants, the invited speakers, the members of the Program Committees, and the additional reviewers for putting together strong programs. We also thank the local organizers for their hard work organising the events. Finally, we would like to express our gratitude to the sponsors of the conferences, the European Association for Artificial Intelligence (EurAI), the Universitat Politecnica de Valencia, the Escuela Tcnica Superior de Ingeniera Informtica, the Artificial Intelligence journal for their generous support, without which this event would not have been possible.

March 2017

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VIII

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# EUMAS-AT 2016

## Table of Contents

### Invited Speakers

Autonomy and Roles of Intelligent Social Agents in our Hybrid and Mixed World: Some Hints  
*Cristiano Castelfranchi*  
1

An Introduction to the Pocket Negotiator: A General Purpose Negotiation Support System  
*Catholijn M. Jonker, Reyhan Aydoğán, Tim Baarslag, Joost Broekens, Christian A. Detweiler, Koen V. Hindriks, Alina Huldsgren, Wouter Pasman*  
11

### EUMAS Papers

#### Agent and Multi-agent System Models

A concise review on multi-agent teams: contributions and research opportunities  
*Ewa Andrejczuk, Juan A. Rodriguez-Aguilar and Carles Sierra*  
26

A Modeling Language for Adaptive Normative Agents  
*Marx Viana, Paulo Alencar and Carlos Lucena*  
34

An MDE Approach for Modelling and Reasoning about Multi-agent Systems  
*Fazle Rabbi, Yngve Lamo and Lars Michael Kristensen*  
42

LightJason: A BDI Framework inspired by Jason  
*Malte Aschermann, Philipp Kraus and Jörg P. Müller*  
50

Paffin: Implementing an Integration of Agents and Workflows  
*Thomas Wagner, Dennis Schmitz and Daniel Moldt*  
58

#### Algorithms

Decentralized Approach to Solve Group AHP with Agreements by Consensus  
*Miguel Rebollo, Alberto Palomares and Carlos Carrascosa*  
66

Efficient Multi-Criteria Coalition Formation using Hypergraphs (with Application to the V2G Problem)  
*Filippos Christianos and Georgios Chalmiadakis*  
78

Forming Stable Coalitions in Large Systems with Self-Interested Agents  
*Pavel Janovsky and Scott Deloach*  
93

Heuristic Methods for Optimal Coalition Structure Generation  
*Amir Hussin and Shaheen Fatima*  
108

Increasing Use of Renewable Energy by Coalition Formation of Renewable Generators and Energy Stores  
*Pavel Janovsky and Scott Deloach*  
123

Proactive-DIEL in Evolving Referral Networks  
*Ashiqur Khudabukhsh, Peter Jansen and Jaime Carbonell*  
131

Probabilistic Topic Modeling, Reinforcement Learning, and Crowdsourcing for Personalized Recommendations  
*Evangelos Tripolitakis and Georgios Chalmiadakis*  
139
Kazuteru Miyazaki, Koudai Furukawa and Hiroaki Kobayashi

Resource Re-allocation for Data Inter-dependent Continuous Tasks in Grids
Valeria Haberland, Simon Miles and Michael Luck

Self-Adaptive Distribution System State Estimation
Alexandre Perles, Guy Camilleri and Marie-Pierre Gleizes

Spatial real-time price competition in the dynamic spectrum access markets
Marcel Vološin, Juraj Gazda, Peter Drotár, Gabriel Bugár and Vladimír Gazda

Using Automated Approximate Satisfaction in Parameter Search for Dynamic Agent Models
Jan Treur

Applications

A Computational Model for Desire Regulation Applied to Food Desires
Altaf Hussain Abro and Jan Treur

A Topological Categorization of Agents for the Definition of Attack States in Multi-Agent Systems
Katia Santacà, Matteo Cristani, Marco Rocchetto and Luca Viganò

Agents and Dementia - Smart Risk Assessment
Berndt Müller and Steve Williams

Coordination Of Sensors Deployed On Airborne Platform: A Scheduling Approach
Ludovic Grivault, Amal El Fallah Seghrouchni and Raphaël Girard-Claudon

Experimental Evaluation of Agent-based Localization of Smart Appliances
Federico Bergenti and Stefania Monica

Exploring Feature-Level Duplications on Imbalanced Data Using Stochastic Diffusion Search
Haya Alhakbani and Mohammad Majid Al-Rifaie

Normative Industrial Symbiotic Networks: A Position Paper
Vahid Yazdanpanah, Devrim Murat Yazan and Henk Zijm

Novel Multi-agent protocols for Islamic banking commodity trading
Amer Alzaidi and Dimitar Kazakov

Simulations

Agent-based simulation for software development processes
Tobias Ahlbrecht, Jürgen Dix, Niklas Fiekas, Jens Grabowski, Verena Herbold, Daniel Honsel, Stephan Waack and Marlon Welter

An Applicability of ABC Method to Inverse Simulation and Application to Triage Simulation
Atsushi Kobayashi, Koji Suginuma and Masakazu Furuichi

Monitoring the Impact of Negative Events and Deciding about Emotion Regulation Strategies
Adnan Manzoor, Altaf Hussain Abro and Jan Treur

Scalable Multi-Agent Simulation based on MapReduce
Tobias Ahlbrecht, Jürgen Dix and Niklas Fiekas

Theoretical Studies
Expansion and equivalence relations on argumentation frameworks based on logic programs
Juan Carlos Nieves

On a Formal Treatment of Deception in Argumentative Dialogues
Kazuko Takahashi and Shizuka Yokohama

Propositional Belief Merging with T-conorms
Henrique Viana and Joao Alcantara

Sufficientarian Propositional Belief Merging
Henrique Viana and Joao Alcantara

AT Papers

Algorithms and Frameworks

The argumentative mediator
Carles Sierra, Simeon Simoff and Ramon López de Mântaras

Coalition formation with logic-based agents
Gianluigi Greco and Antonella Guzzo

Boolean matrix approach for abstract argumentation
Fuan Pu, G.M Luo and Yucheng Chen

A target-oriented discussion framework to support collective decision making
Jordi Ganzer-Ripoll, Maite Lopez-Sanchez and Juan Antonio Rodriguez-Aguilar

Applications

A proposal for situation-aware evacuation guidance based on semantic technologies
Holger Billhardt, Jürgen Dunkel, Alberto Fernandez, Marin Lujak, Ramon Hermoso and Sascha Ossowski

Software agents in retinal vessels classification
Pablo Chamoso, Sara Rodríguez, Fernando De La Prieta, Juan Francisco De Paz Santana, Javier Bajo Pérez, Juan Manuel Corchado Rodríguez, Henar Pérez Ramos and Luis García Ortiz

Using genetic algorithms for group activities in elderly communities
Juan José Hernández, Ángelo Costa, Juan M. Alberola, Elena Del Val, Paulo Novais and Vicente Julian

Using argumentation schemes for a persuasive cognitive assistant system
Ángelo Costa, Stella Heras, Javier Palanca, Jaume Jordán, Paulo Novais and Vicente Julian

Philosophical and Theoretical Studies

Characterising polemical disputes
Christian Lemaitre and Pablo Noriega

Some theoretical results on the relationship between argumentation and coherence theory
Yannis Dimopoulos, Pavlos Moraitis and Carles Sierra