

## **Special Session on Adaptation and Services: Agents, Methodologies and Applications - ASAMA 2018**

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**Date :** Jan 16, 2018 - 09:00 AM

**Event URL :** <http://www.sfbayeventslist.com/events/special-session-on-adaptation-and-services-agents-methodologies-and-asama>

**Organizer :** NYMT

**Venue :**

**Location :** Hotel Vila Galã Santa Cruz Rua Sã£o Fernando, 59100-173 Santa Cruz Portugal, Santa Cruz, Portugal, US, ZIP: 59100-173

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## **Special Session on Adaptation and Services: Agents, Methodologies and Applications - ASAMA 2018**

### **SCOPE**

This special session will provide the opportunity to present and discuss research in the intersection between service-oriented engineering and self-adaptive systems. Whereas classical service orientation focuses on the development of software systems by composition of reusable services, self-adaptation proved to be effective for implementing robust and flexible applications. The theory and practice of self-adaptation may be used for handling dynamic environments and for grating continuity of service also in case of unexpected changes of the operative context.

Topics:

The special session ASAMA invites submissions in the area of self-adaptative services. Topics include, but are not limited to, the following: Agents for: Self-organizing, configuring, managing services Adaptive orchestration and choreography Decentralized feedback loop Dynamic Holons

and Holarchies Methodologies for: Requirements elicitation techniques QoS Optimization  
Techniques Dynamic Architectures Definition Applications: Dynamic Workflows Internet of  
Things Socio-technical systems Mobile and Cloud computing Robotics Smart spaces

## **IMPORTANT DATES**

Paper Submission: November 7, 2017 (expired)

Authors Notification: November 21, 2017

Camera Ready and Registration: November 29, 2017

## **SPECIAL SESSION PROGRAM COMMITTEE**

Alba Amato, Consiglio Nazionale delle Ricerche (ICAR-CNR), Italy

Luciano Baresi, Politecnico di Milano, Italy

Rafael Bordini, PUCRS, Brazil

Giacomo Cabri, Università di Modena e Reggio Emilia, Italy

Massimo Cossentino, ICAR-CNR, Italy

Jorge Gomez Sanz, Universidad Complutense Madrid, Spain

Maxime Morge, Université de Lille, France

Andrea Omicini, Alma Mater Studiorum - Università di Bologna, Italy

Juan Pavon, Universidad Complutense Madrid, Spain

Silvia Rossi, Università degli Studi di Napoli Federico II, Italy

Valeria Seidita, University of Palermo, Italy

Angelo Susi, FBK, Italy

Salvatore Venticunque, Università degli Studi della Campania Luigi Vanvitelli, Italy

## **CO-CHAIRS**

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### **Luca Sabatucci**

ICAR-CNR

Italy

### **Brief Bio**

Luca Sabatucci held a doctoral degree in software engineering from the University of Palermo in 2008. Currently, he is a research scientist at the Italian National Research Council (CNR), working in Palermo, Italy. Principal interests are in the areas of Self- Adaptive Systems, Requirements Engineering, and Software Patterns. In the last six years, the main topic of research is related to self-adaptive techniques, in which he published several papers and won the best paper award at SEAMS 2015. He participated in the organization and in the program committee of various international conferences and workshops.

## **Claudia Di Napoli**

Istituto di Calcolo e Reti ad Alte Prestazioni - C.N.R.

Italy

### **Brief Bio**

Claudia Di Napoli is a research scientist at the High Performance Computing and Network Institute of the Italian National Research Council (C.N.R.). She got a degree in Physics, with specialization in Cybernetics. Her research interests include Distributed Systems, Software Agents, Service Oriented Architectures, and Cloud Computing. She participated in several national and EU research projects, and published more than 50 papers in international journals, conference proceedings and books. She was member of Program Committees, and Organizing Committees of several international conferences.

## **ICAART 2018 - 10th International Conference on Agents and Artificial Intelligence**

### **SCOPE**

The purpose of the International Conference on Agents and Artificial Intelligence is to bring together researchers, engineers and practitioners interested in the theory and applications in the areas of Agents and Artificial Intelligence. Two simultaneous related tracks will be held, covering both applications and current research work. One track focuses on Agents, Multi-Agent Systems and Software Platforms, Distributed Problem Solving and Distributed AI in general. The other track focuses mainly on Artificial Intelligence, Knowledge Representation, Planning, Learning, Scheduling, Perception Reactive AI Systems, and Evolutionary Computing and other topics related to Intelligent Systems and Computational Intelligence.

A substantial amount of research work is ongoing in these knowledge areas, in an attempt to discover appropriate theories and paradigms to use in real-world applications. Much of this important work is therefore theoretical in nature. However there is nothing as practical as a good theory, as Boltzman said many years ago, and some theories have indeed made their way into practice. Informatics applications are pervasive in many areas of Artificial Intelligence and Distributed AI, including Agents and Multi-Agent Systems; This conference intends to emphasize this connection, therefore, authors are invited to highlight the benefits of Information Technology (IT) in these areas. Ideas on how to solve problems using agents and artificial intelligence, both in R&D and industrial applications, are welcome. Papers describing advanced prototypes, systems, tools and techniques and general survey papers indicating future directions are also

encouraged. Papers describing original work are invited in any of the areas listed below. Accepted papers, presented at the conference by one of the authors, will be published in the Proceedings of ICAART with an ISBN. Acceptance will be based on quality, relevance and originality. Both full research reports and work-in-progress reports are welcome. There will be both oral and poster sessions.

Special sessions, dedicated to case-studies and commercial presentations, as well as tutorials dedicated to technical/scientific topics are also envisaged: companies interested in presenting their products/methodologies or researchers interested in holding a tutorial are invited to contact the conference secretariat. Additional information can be found at <http://www.icaart.org/>.

## **CONFERENCE AREAS**

Each of these topic areas is expanded below but the sub-topics list is not exhaustive. Papers may address one or more of the listed sub-topics, although authors should not feel limited by them. Unlisted but related sub-topics are also acceptable, provided they fit in one of the following main topic areas:

1. AGENTS
2. ARTIFICIAL INTELLIGENCE

### **AREA 1: AGENTS**

Semantic Web  
Multi-Agent Systems  
Distributed Problem Solving  
Agent Communication Languages  
Agent Models and Architectures  
Cooperation and Coordination  
Conversational Agents  
Negotiation and Interaction Protocols  
Programming Environments and Languages  
Task Planning and Execution  
Autonomous Systems  
Cognitive Robotics  
Group Decision Making  
Web Intelligence  
Agent Platforms and Interoperability  
Agent Oriented Software Engineering  
Simulation  
Economic Agent Models  
Mobile Agents  
Privacy, safety and security  
Collective Intelligence  
Physical Agents at Work

[www.sfbayeventslist.com](http://www.sfbayeventslist.com)

Robot and Multi-robot Systems  
Self Organizing Systems  
Cloud Computing and Its Impact  
Intelligent Auctions and Markets  
Swarm Intelligence

## **AREA 2: ARTIFICIAL INTELLIGENCE**

Intelligent User Interfaces  
Bayesian Networks  
Soft Computing  
Neural Networks  
Natural Language Processing  
Machine Learning  
Planning and Scheduling  
Knowledge Representation and Reasoning  
Uncertainty in AI  
Model-Based Reasoning  
Ontologies  
Data Mining  
Data Science  
Constraint Satisfaction  
State Space Search  
Case-Based Reasoning  
Cognitive Systems  
Intelligence and Cybersecurity  
Vision and Perception  
Pattern Recognition  
Ambient Intelligence  
AI and Creativity  
Evolutionary Computing  
Fuzzy Systems  
Knowledge-Based System  
Industrial applications of AI  
Hybrid Intelligent Systems  
Visualization  
Deep Learning

### **Keynote Lectures**

Agent-based Models for Language Adaptation and Change  
Luc Steels, ICREA, Institute of Evolutionary Biology (UPF-CSIC) Barcelona, Spain

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Accountability, Responsibility, Transparency: the ART of AI  
Virginia Dignum, Delft University of Technology, Netherlands

Reading Agents that Hunger for Knowledge  
Eduard Hovy, Carnegie Mellon University, United States

What We Do: Challenges in Individual Rationality and Its Collective Consequences  
Luís Antunes, Universidade de Lisboa, Portugal

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