
CALL FOR PAPERS

1st International Workshop on Adaptive Service Ecosystems:
Nature and Socially Inspired Solutions

(ASENSIS 2012)

10 September 2012

To be held in conjunction with
the Sixth IEEE International Conference on Self-Adaptive and Self-Organizing Systems
(SASO 2012)

Lyon, France; 10-14 September 2012 --- <http://saso2012.univ-lyon1.fr/>

Aims and Scope

Emerging distributed computing scenarios (mobile, pervasive, and social) are characterised by intrinsic openness, decentralisation, and dynamics. According, the effective deployment and execution of distributed services and applications calls for open service frameworks promoting situated and self-adaptive behaviours, and supporting diversity in services and long-term evolvability. This suggests adopting nature-inspired and/or socially-inspired approaches, in which services are modelled and deployed as autonomous individuals in an ecosystem of other services, data sources, and pervasive devices. Accordingly, the self-organising interactions patterns among components and the resulting emerging dynamics of the system, as those of natural systems or of social systems, can inherently exhibit effective properties of self-adaptivity and evolvability.

Although many initiatives (like those named upon digital/business service ecosystems) recognise that the complexity of modern service systems is comparable to that of natural ecosystems, the idea that nature – other than a mean to metaphorically characterise their complexity – can become the source of inspiration for their actual modelling and implementation is only starting being metabolised.

The goal of the workshop is to bring together researchers and practitioners, with the aims of unfolding the many challenges related to the modelling, design and implementation of adaptive service ecosystems in natural and social terms, and identifying promising approaches and solutions.

Important Deadlines

Abstract submission: July 1st, 2012

Full paper submission: July 4th, 2012

Notification of acceptance: July 25th, 2012

Camera-ready version of accepted papers: August 24th, 2012

Early registration: August 20th, 2012

All deadlines are at 11:59 PM Hawaii Time (HST).

Topics of Interest

Topics include but are not limited to:

- Models and tools for adaptive service ecosystems
- Software architectures for emergent distributed service systems
- Middleware for service ecosystems
- Bio-inspired self-organising design patterns
- Coordination models and languages
- Middleware platforms
- Dynamic Services composition
- Adaptive coordination models and patterns
- Self-organization and coordination
- Coordination in systems of feedback loops
- Middleware for adaptive coordination
- Multiagent systems
- Methodologies for adaptive and self-organising system engineering

Papers submission and format

Papers must be formatted according to IEEE Specifications and be of a maximum of 6 pages in length. Submission details are available on the workshop website (<http://asensis2012.apice.unibo.it/>).

Authors are kindly reminded of the IEEE policy on publications and the five levels of plagiarism defined by the IEEE. These rules will be strictly enforced. In particular, self-plagiarized papers will be rejected without further ado.

All papers should be submitted electronically in PDF format through the EasyChair submission system using this link <https://www.easychair.org/conferences/?conf=asensis2012>. If you don't have an EasyChair account, please register here <http://www.easychair.org>

All accepted papers will be published by IEEE Xplore following the workshop.

Review Process

All submitted papers will be peers reviewed by at least 3 reviewers.

Co - Organisers

José Luis Fernandez-Marquez, Institute for Service Sciences, Université de Genève
Sara Montagna, DEIS, Università di Bologna
Andrea Omicini, DEIS, Università di Bologna
Franco Zambonelli, DISMI, Università di Modena e Reggio Emilia

Program Committee

Gul Agha (University of Illinois at Urbana–Champaign, USA)
Wolfgang De Meuter (Vrije Universiteit Brussel, Belgium)
Giovanna Di Marzo (Université de Geneve, Switzerland)
Simon Dobson (University of St. Andrews, UK)
Alois Ferscha (University of Linz, Austria)
Sam Guinea (Politecnico di Milano, Italy)
Ruth Falconer (University of Abertay, Dundee, UK)
Sam Malek (George Mason University, USA)
Marco Mamei (Università di Modena e Reggio Emilia, Italy)
Juan A. Rodríguez Aguilar (IIIA, Spain)
Kyle Usbeck (Raytheon BBN Technologies, Cambridge)
Giuseppe Valetto (Drexel University USA)
Mirko Viroli (Università di Bologna, Italy)
Giuseppe Vizzari (Università di Milano-Bicocca, Italy)