SASO^ST 2015

Third International Workshop on Self-Adaptive and Self-Organising Socio-Technical Systems

at the 9th IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO)
Cambridge, MA, USA
September 25, 2015

Call for Papers

The design and operation of computer systems has traditionally been driven by technical aspects and considerations. However, the usage characteristics of information and communication systems are both implicitly and explicitly determined by social interaction and the social graph of users. This aspect is becoming more and more evident with the increasing popularity of social network applications on the internet. This workshop will address all aspects of self-adaptive and self-organising mechanisms in socio-technical systems, covering different perspectives of this exciting research area ranging from normative and trust management systems to socio-inspired design strategies for distributed algorithms, collaboration platforms and communication protocols.

Topic Areas

SASO^ST systems require a highly interdisciplinary approach, and the establishment of a research community around the creation of such systems is one of the workshop's key objectives. For this purpose, the workshop brings together experts from areas such as distributed computer systems, complex systems, and the social sciences to present findings and elaborate on the topic in the following complementary topical sections as well as open panel discussion rounds. Relevant topics include but are not limited to:

Trust and norms in self-organising and autonomous systems
- Trust and reputation management in autonomous self-organising systems
- Metrics of trust and specialised metrics for single trust facets
- Evaluations of the effects of trust in self-organising and autonomous systems
- Analysis of threats to self-organising and autonomous systems
- Trust-based algorithms and mechanisms to deal with uncertainty in self-organising systems
- Self-organising norm-governed systems
- Representation of and reasoning about computational laws

Socially adaptive and socio-aware information and communication systems
- Socio-aware overlay topologies
- Analysis, modelling and control of information spreading, opinion formation phenomena and collective user behaviour in online social networks and distributed computer systems
- Socially adaptive, scalable content distribution
- Real-time monitoring and prediction of collective user dynamics
- Social adaptation of network protocols and topologies
- Simulation and evaluation of interactive networked computing systems with socio-aware behavioural models
- Utilisation of social structures for the scalable provision of distributed virtual environments and in application-level routing schemes for Peer-to-Peer, wireless ad-hoc or delay tolerant networks
- Socially-inspired algorithms and network topologies for distributed search, consensus, gossiping etc.

Important Dates

Submission Deadline: **July 11, 2015**
Acceptance Notification: July 31, 2015
Camera-ready Deadline: August 10, 2015
Workshop: September 25, 2015

Organizers

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Paper Submission

The organisers welcome the submission of short papers not exceeding 6 two-column pages in the IEEE Computer Society Press proceedings style. We solicit both original research papers as well as position papers. Papers need to be previously unpublished and currently not under review elsewhere.

Each submission will be peer-reviewed by two to three members of the program committee in a single-blind process. The decision will be based on the motivation of the research, the clarity of the claims of the contribution, the relevance of the research to the domain of self-adaptive and self-organising socio-technical systems, its evaluation, and the thoroughness of the related work comparison. In particular, submissions that promise to fuel discussions which bring together results and issues from different disciplines and which thus contribute to the strengthening of an interdisciplinary community will be given preference.

Accepted papers will be published as a bundle with the main conference proceedings by IEEE Computer Society Press and will be submitted to the indexing companies.

Contact

For more information please visit **http://sasost.isse.de** or contact any of the organizers.