

# SocioAware 2013

## Second International Workshop on Socially Adaptive and Socio-Aware Information and Communication Systems

at the 7th IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SaSo)  
Philadelphia, PA, USA, September 9th, 2013

### Call for Papers

The design and operation of distributed 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. The performance, resilience and reliability of distributed systems can thus be improved by considering social aspects already in and for their design. The aim of this workshop is to elaborate how such socially adaptive networked computing systems can be created.

This requires a highly interdisciplinary approach, and the establishment of a research community around the creation of such systems is one of the key objectives of the workshop. For this purpose, the workshop brings together experts from distributed computer systems, complex systems and social science. This workshop seeks to shed light on the question how the increasing pervasion of technical infrastructures with social aspects affects the engineering of reliable and scalable networked computing systems. Another interesting question is how suitable mathematical modelling of social phenomena can influence and inspire the design of distributed algorithms, network topologies and communication protocols, resulting in what may be called *socio-aware information and communication systems*.

### Topic Areas

This workshop intends to address the above general questions in the context of a variety of different networked computing systems. The workshop's focus includes but is not limited to the following topics:

- Socio-aware overlay topologies
- Analysis and control of information spreading, opinion formation phenomena and collective user behavior in online social networks
- 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 behavioral models
- Utilization of social structures for the scalable provision of distributed virtual environments
- Harnessing social structures 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.
- Modelling and utilization of collective user behavior in distributed computer systems

We particularly solicit interdisciplinary work that demonstrates how data, results and research questions from different scientific disciplines can be combined in a way that facilitates the engineering of socially adaptive information and communication systems.

### Important Dates

<b>Submission Deadline</b>	<b>July 11th, 2013</b>
Acceptance Notification	July 25th, 2013
Camera-ready Deadline	August 14th, 2013
Workshop	Sept. 9th, 2013

### Organizers

Peter Sturm  
*University of Trier, Germany*

Jean Botev  
*University of Luxembourg, Luxembourg*

Markus Esch  
*Fraunhofer FKIE, Germany*

Ingo Scholtes  
*ETH Zurich, Switzerland*

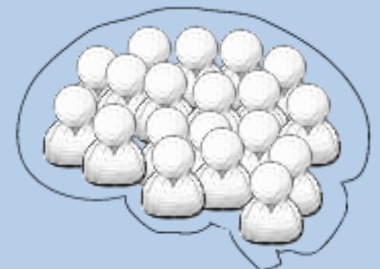
Bernd Klasen  
*SES ASTRA TechCom, Luxembourg*

### Paper Submission

The organizers welcome the submission of extended abstracts of max. 2 pages as well as short papers of up to 6 IEEE two-column pages describing original work previously unpublished and currently not under review elsewhere. Position and work-in-progress papers are highly welcome. All submissions will be blindly reviewed by at least three members of the program committee.

### Contact

For more information visit the workshop website at <http://www.socioaware.net> or directly contact the organizers at [info@socioaware.net](mailto:info@socioaware.net).



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