

2nd International Workshop on Quality in Techno-Social Systems

at the Fourth International Conference on Self-Adaptive and Self-Organizing Systems 2010

September 28, 2010, Budapest, Hungary

Call for Papers

Techo-social systems are ICT systems in which many people collectively coordinate and cooperate to achieve their goals without central control. These systems, for example Wikipedia, eBay, Web2.0 sites, social networks and peer-to-peer networks, have both self-organizing and self-adaptive aspects. In this workshop we aim to put the quality aspect of these complex systems into focus. Quality outcome can be produced by the individual users through selecting, producing and rating certain kinds of content. For example, trust and reputation may emerge among a community and be used to enhance quality. The workshop will consider mechanisms by which individual peers can be brought together automatically into collectives whose members share interests and agree about the evaluation of quality in the domain.

The SASO conference focuses on how to make computer systems operate autonomously in a reliable, efficient and useful way with minimal user or operator intervention. The workshop addresses this very problem narrowing the focus down to techno-social systems. The question we ask is: how can one let a system self-organize to a high quality, desirable state, where users and their behavior form an integral part of the system (i.e., a techno-social system), and where self-organization at the system level has to be aligned with self-organization at the social level.

The workshop is centered around the following technical issues:

- incentive mechanisms for self-organizing and self-adaptive systems
- evolving social interaction structures for quality
- ranking, rating, reputation and recommendation in distributed systems
- conflict and consensus detection, correction in distributed systems
- realistic models of user behavior and the dynamic social structures that they create
- analysis of empirical and experimental data for quality
- computational sociology of online communities
- distributed social networks
- quality metrics - how to measure in distributed systems

Papers are welcome from the fields of theoretical and algorithmic foundations, algorithm design and simulation, as well as empirical data-sets collection, processing and validation.

Audience

The workshop is inherently interdisciplinary. Relevant areas include: **sociology** and **psychology**, in particular, the evolution of cooperation, opinion dynamics, the evolution of norms and trust relationships, etc; **physics**, in particular complex (social and technical) networks and models of the dynamics of group behavior; **computer science**, in particular P2P systems, data mining (ranking and recommendation), information retrieval, and distributed systems.

IMPORTANT DATES

Paper submission:

July 12, 2010

Acceptance Notification:

August 6, 2010

Camera-ready version:

August 20, 2010

Early registration deadline:

August 13, 2010

Workshop:

September 28, 2010

Organization Committee

Nigel Gilbert, University of Surrey
Mark Jelasity, University of Szeged
Tamas Vinko, TU Delft

Program Committee

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Yi-Cheng Zhang, Fribourg University

Publication

Submissions should not exceed 6 pages and formatted according to the IEEE CSP proceedings style guide. Submitted papers must not have been previously published or submitted elsewhere. All submissions will be carefully peer reviewed by the program committee. The proceedings of the workshops will be published by IEEE CSP as a bundle with the main SASO conference proceedings.

Contact

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For more information about the workshop please visit the website: <http://qlectives.eu/qteso>