

Call for Papers and Panel Proposals

13th International Workshop on Software Cybernetics

IWSC 2016

In conjunction with QRS 2016, August 1-3, 2016

Vienna, Austria, August 1-3, 2016

IMPORTANT DATES

Deadline for submission:

25 March 2016

Notification of Acceptance:

25 May 2016

Camera-ready copy due

10 June 2016

COMMITTEES

Steering Committee:

- *Stephen S. Yau* (chair)
Arizona State University,
USA
- *Kai-Yuan Cai*
Beijing University of
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- *W. Eric Wong*
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General Chair

- *Hongji Yang*
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- *Feng Chen*
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With the advent of new computing paradigms, communication and control technologies, software systems are required to be more and more autonomic, collaborative, self-adaptive and evolutionary. The sustainability of software product and the quality of delivered services imposes greater impact to the various perspectives of people's economic activities, scientific research and social life, in particular, when software services and systems are operating in an open and volatile environment, such as the Internet. In order to make software work as expected in a dynamic environment with constantly changing user requirements, the software must be aware of the changes, and be adaptive according to the external input and the feedback of the application system.

This workshop, the 13th International Workshop on Software Cybernetics, will be held in conjunction with the 2016 International Conference on Software Quality, Reliability, and Security, and will focus on the theme of "Software Control in Smart Systems". It provides an international forum for researchers and practitioners to exchange their original research results, identify future research problems, and report the current best practices in industry.

The workshop welcomes submissions that cover, but are not limited to, the following topics:

- Modelling of cyber-physical systems
- Modeling of evolving and dynamic systems
- Modeling of large scale smart systems
- Adaptation of control theory to smart systems
- Formalization of control mechanisms in smart systems
- Integration of software, networking and control
- Context-aware, self-adaptive software
- Learning and decision making in large scale smart systems
- Large scale adaptive system design and architecture
- Control of adaptive software rejuvenation
- Adaptive testing and test case generation

- Control in fault-tolerant computing
- Control in quality and security
- Machine learning for software engineering and QoS control
- Practice and experience of SaaS (Software-as-a-Control-System)

SUBMISSION

Authors are invited to submit original, unpublished *research papers* as well as *industrial practice papers*. Simultaneous submissions to other publications or conferences are not permitted. Detailed instructions for electronic paper submission, panel proposals and review process can be found at

<http://paris.utdallas.edu/qrs16/>.

The length of the camera-ready of an accepted paper will be limited to 6 pages (IEEE Proceedings style) with up to two additional pages (with charges for each of the additional pages), and printed on 10-12 point fonts.

The authors must follow the IEEE Computer Society Press Proceedings Author Guidelines to prepare your papers. At least one of the authors of each accepted paper is required to pay full registration fee and present the paper at the workshop. Arrangements are being made to publish selected accepted papers in reputable journals. The submissions must be in PDF, Postscript, or RTF format.

Submit panel proposals in plain text via email to Prof. Hongji Yang at h.yang@bathspa.ac.uk or Dr. Feng Chen at fengchen@dmu.ac.uk