Home IWSC 16

Home QRS 16

Program

Call For Papers

Important Dates

Submission

Committee

PC Login

Proceedings

Workshop Venue

General Inquiries

Previous IWSC

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. 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 topics of interest include, but are not limited to:

- Modeling 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 SaaCS (Software-as-a-Control-System)