

CALL FOR PAPERS

2nd International Workshop on Software Cybernetics (IWSC 05)

Edinburgh, UK, July 25-28, 2005

<http://aquila.nvc.cs.vt.edu/compsac2005/workshop/IWSC05>

As a Part of The 29th Annual International Computer Software and Application Conference
(COMPSAC 2005)

The Program Committee of IWSC 05 invites researchers and practitioners to submit previously unpublished work in the area of Software Cybernetics. We welcome manuscripts that focus on theoretical work in modeling and analysis, as well as summary descriptions of case studies, in software process control. Selected papers will be presented during a 1-day workshop as part of COMPSAC 2005, published in the COMPSAC workshop proceedings, and considered for publication in a special section in the Journal of Systems and Software. The workshop program will consist of presentations by keynote speakers and authors of selected submissions in a discussion-oriented interactive format. Areas/topics of interest include, but are not limited to, the following.

- Models and use of feedback mechanisms in software processes, simulation and systems
- Feedback control in software test process and fault-tolerant computing; active robust feedback policies for software security
- Robust software evolution using adaptive feedback control
- Self-adaptive, self-managing and learning software: architecture and algorithms
- Adaptive testing; fault detection and localization for self-correction in software and software processes
- Control of software rejuvenation, adaptive rejuvenation
- Relationship between bisimulation and controllability
- Application of supervisory control principles to software synthesis and safety control
- Software architectures for control systems; software enabled control
- Proactive and autonomic computing

Papers must be submitted electronically via:

<http://aquila.nvc.cs.vt.edu/start/www/IWSC05/submit.html>

Important dates:

Submissions due: February 15, 2005

Notification of acceptance: April 15, 2005

Camera-ready copies due: May 16, 2005

Organizing committee:

- Fevzi Belli, *Workshop Chair*, University of Paderborn, Paderborn, Germany. Email: belli@upb.de
- Aditya Mathur, *Workshop Co-Chair*, Purdue University, West Lafayette, IN, USA. Email: apm@cs.purdue.edu
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