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Call for Participation

ACM SIGSOFT 2004

Twelfth International Symposium on the Foundations of Software Engineering (FSE-12)

October 31 - November 5, 2004

Hyatt Newporter Hotel, Newport Beach, California, USA

<http://www.isr.uci.edu/FSE-12/>



Newport Beach

SIGSOFT 2004 brings together researchers and practitioners from academia and industry to exchange new results related to both traditional and emerging fields of software engineering. SIGSOFT 2004 will feature four workshops, one day of tutorials organized through the Educator's Grant Program (EGP), a student research forum with posters, along with FSE-12.

FSE-12 will be held Tuesday-Thursday, November 2-4. We are pleased to announce the **keynotes**:

Alexander L. Wolf, University of Colorado at Boulder, Tues. Nov. 2

Joe Marks, Director, Mitsubishi Electric Research Laboratories, Cambridge, Wed. Nov. 3
SIGSOFT Distinguished Research Award winner, Thur. Nov. 4

Workshops. SIGSOFT 2004 will feature four workshops: WOSS '04, SAVCBS '04, WISER, and QUTE SWAP - see reverse for details.

Tutorials. SIGSOFT 2004 will feature one day of **tutorials**, organized by the Educator's Grant Program (EGP) Co-Chairs.

The **Educators Grant Program (EGP)** is designed to help increase the participation of women and minorities in software engineering. The EGP program will fund faculty from institutions with a large minority or female student enrollment to attend FSE-12 and two special half-day tutorials targeted, but not limited, to this group. This program will build on the successful SIGSOFT 2002 EGP.

SIGSOFT 2004 will also feature a **Student Research Forum** with **posters**. This Forum provides an opportunity for graduate and undergraduate students attending SIGSOFT 2004 to present and discuss their research at poster a session. This 2-hour evening **reception** event will feature concurrent short presentations by student participants organized in poster formats. SIGSOFT 2004 attendees, including non-students, will be able to wander among the posters and talk to the students about their research.

Students presenting posters are encouraged to apply for funding through the **ACM SIGSOFT CAPS** program. <http://www.cs.williams.edu/~lerner/sigsoft/CAPS.html>

Student Research Forum Submission Deadline: August 1

For More information: <http://www.cis.udel.edu/~pollock/fse04/>

SIGSOFT 2004 Schedule:

WOSS '04, SAVCBS '04:

Tutorials:

FSE-12:

Student Research Forum:

WISER, QUTE SWAP:

October 31-November 1

November 1

November 2-4

November 2

November 5

Sponsored by



In cooperation with **SIGPLAN**

ACM SIGSOFT 2004 Workshops - Call for Participation

WOSS '04 Workshop on Self-managed Systems

October 31-November 1

<http://www.cs.cmu.edu/~garlan/woss04/>

Organizers:

David Garlan, Carnegie Mellon University, USA
Jeff Kramer, Imperial College London, UK
Alexander L. Wolf, University of Colorado at Boulder, USA

An increasingly important requirement for software-based systems is the ability to adapt themselves at run time to handle such things as resource variability, changing user needs, and system faults. The topic of self-managed systems has been studied in a large number of specific areas, including robotics planning software, control systems, programming language design, software architecture, trustworthy computing, and neural networks.

The goal of this workshop is to bring together researchers and practitioners to discuss the fundamental principles, state of the art, and critical challenges of self-managed systems. Specifically, we intend to focus on the software engineering aspects, including the software languages, techniques and mechanisms that can be used to support dynamic, self-adaptive behavior.

For More Information:

David Garlan, garlan@cs.cmu.edu

SAVCBS '04 Specification and Verification of Component-Based Systems

October 31-November 1

<http://www.cs.iastate.edu/~leavens/SAVCBS/2004/>

Organizers:

Mike Barnett, Microsoft Research, USA
Steve Edwards, Virginia Tech, USA
Dimitra Giannakopoulou, RIACS/NASA Ames Research Center, USA
Gary T. Leavens, Iowa State University, USA
Natasha Sharygina, SEI/CMU, USA

SAVCBS is concerned with the application of formal techniques to the specification and verification of component-based systems. Component-based systems are a growing concern for the software engineering community. Specification and reasoning techniques are urgently needed to permit composition of systems from components. Component-based specification and verification is also vital for scaling advanced verification techniques such as extended static analysis and model checking to the size of real systems. The workshop will consider formalization of both functional and non-functional behavior, such as performance or reliability.

For More Information:

Natasha Sharygina, nys@sei.cmu.edu

Workshop on Interdisciplinary Software Engineering Research - WISER

November 5

<http://wiser.co.umist.ac.uk/>

Organizers:

Nikolay Mehandjiev, UMIST, UK
Keith Bennett, University of Durham, UK
Pearl Brereton, Keele University, UK
David Budgen, Keele University, UK
Paul Layzell, UMIST, UK

This workshop aims to formulate a research agenda for addressing the future of software engineering as an interdisciplinary activity. Driven by the spirit of scientific enquiry, the software engineering community should transcend the boundaries of the discipline and take a broader and possibly more radical view about future software engineering techniques, processes and tools. A number of disciplines share common problems with software engineering, and some may have developed answers which are useful for us. Apart from the direct benefit of solving a particular problem, the process of transfer will help us to create a vision of future software engineering by identifying assumptions which might be challenged in an interdisciplinary context. To achieve this, participants in the workshop will describe experiences where techniques or approaches from other disciplines were successfully used within software engineering research or practice, and suggest areas where further research may help such an interdisciplinary transfer. Discussions will be supported by an organising Framework classifying existing and potential inter-disciplinary transfers such as cognitive design of representations; financial and economic models; service-based organisational principles; mass-customisation and product lines; and holistic human-centred view of software engineering. Developed through a number of preceding activities, we expect this framework to continue evolving and constitute one of the main outputs of this workshop together with the workshop proceedings.

For More Info: Nikolay Mehandjiev, n.mehandjiev@co.umist.ac.uk

QUantitative TEchniques for SoftWare Agile Processes - QUTE SWAP

November 5

<http://ra.crema.unimi.it/qute-swap/>

Organizers:

Michele Marchesi, University of Cagliari, Italy
Giancarlo Succi, University of Bozen-Bolzano, Italy
Ernesto Damiani, University of Milan, Italy
Davide Carboni, CRS4, Italy
Alberto Sillitti, University of Bozen-Bolzano, Italy

Collecting and analyzing software process data can help to control and predict the performance of software development activities, helping software developers to achieve both business and technical objectives. Experience has shown that quantifying the software process operation can improve insight, e.g. allowing assessing the impact of process change on the software products.

On the other hand, the widespread adoption of agile processes and the increasing structural diversity of software development organizations around the world as well as new concerns e.g. about privacy, are driving the need for non-intrusive, cost-effective methods capable to deliver long term success in collecting process data without further increasing the burden of process management. Process data mining techniques are also being investigated aimed at extracting valuable knowledge, capable to improve software products' quality.

This workshop is aimed at highlighting the cutting edge of process data collection and analysis research, fostering information exchange between researchers working on data analysis for agile software process improvement and practitioners interested in exploiting software data collection and analysis techniques as a basis for making process decisions and predicting process performance.

For More Info: Ernesto Damiani, EDamiani@crema.unimi.it