IEEE International Conference on Software Maintenance 2001


Call for Papers

Theme: Systems and Software Evolution in the era of the Internet

ICSM is the major international conference in the field of software and systems maintenance, evolution, and management. In the era of the Internet, businesses and end-users have invested in new technologies and small and large software organisations around the world are looking for Internet related solutions to evolve and maintain their new Internet software products. Internet technologies are strongly impacting system architectures and business processes and rules. In some cases businesses and end-users have been overwhelmed trying to keep up with software development and evolution processes and practices. In addition to novel solutions to enable the life-cycle of new web-based software systems, huge investments are necessary to migrate aging legacy applications to web-enabled contemporary systems.

ICSM 2001 will address these major changes in the software landscape and their impact on maintenance and evolution. The focus of the conference will be to explore the new challenges that the Internet, as a driver for business changes, poses for software maintenance, and the new opportunities it opens as infrastructure and enabling technology. The purpose of the conference is to promote discussion and interaction between researchers and practitioners. We are particularly interested in exchanging concepts, prototypes, research ideas, and other results which could contribute to the academic arena and also benefit business and the industrial community. ICSM 2001 will be participatory, with working collaborative sessions and presentations of industry projects. ICSM 2001 will bring together researchers, practitioners, developers and users of tools, technology transfer experts, and project managers.

The following events are held in conjunction with ICSM:
- SCAM, Source Code Analysis and Manipulation, http://www.brunei.ac.uk/~csst/m2/scam2001/

Outstanding Keynotes such as: Prof. David Lorge Parnas and Prof. Dieter Rombach.

Supported by: European Commission-IST, University of Florence, O-Group.

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Topics of interest include but are not restricted to the following aspects of maintenance and evolution:
- Methods and theories
- Organizational frameworks
- Design for maintenance
- Internet and distributed systems
- User interface evolution
- Third party maintenance
- Program comprehension
- Knowledge based systems
- Impact of new software practices
- Software reusability
- Source code analysis and manipulation
- Models and methods for error prediction
- Maintenance and/or productivity metrics
- Personnel aspects of maintenance
- Version and configuration management
- Management and organisation
- Processes and strategies
- Life cycle and process control
- Tools and environments
- Multimedia systems
- Commercial off-the-shelf (COTS)
- Freeware and open source applications
- Software and system visualisation
- Formal methods
- Empirical studies
- Programming languages
- Testing and regression testing
- Measurement of software
- Preventive maintenance
- Reengineering and reverse engineering
- Legal aspects and standards
- Remote, tele-work, and co-operative applications

RESEARCH PAPERS: Research papers should describe original and significant work in the research and practice of software maintenance. Research case studies, empirical research, and experiments are particularly welcome. We also welcome papers that present leading edge and novel ideas in maintenance. Papers should be 2000 – 5000 words in length, in English. Submit them in PDF or PostScript via email to icsm2001@unisannio.it by 15 January 2001. To encourage strong submissions a Prize will be awarded for the Best Paper as Submitted. This Prize is offered by John Wiley & Sons, the publishers of the Journal of Software Maintenance and Evolution. The winner will be selected by the Program Committee and a formal presentation of the Prize will be made in Florence at ICSM 2001.

DISSERTATION FORUM: We welcome submissions of young researchers that have delivered their dissertation (degree, master or Ph.D.) in the last three years. Please submit the PDF of the dissertation to icsm2001@unisannio.it by 15 January 2001. An Award and a full support to attend the conference will be given to the prize winner. Two other free registrations will be assigned at the second and third. 4 pages summary of accepted dissertations will be included in the conference proceedings and a special forum section will be organised at the conference.

INDUSTRIAL APPLICATIONS: We welcome proposals for presentations of Industrial Applications. These can be experience reports from real projects, industrial practices and models, or tool demonstrations. Submit proposals for Industrial Application presentations via email to icsm2001.industry@unisannio.it by 12 March 2001. Industrial Applications proposals will be reviewed by a dedicated sub-committee of the program committee and a 1 page summary of accepted proposals will be included in the conference proceedings.

TUTORIALS: Tutorials should present software maintenance and evolution topics of interest to practitioners. Tutorials may be full-day or half-day in length. Submit tutorial proposals via email to icsm2001.tutorial@unisannio.it by 12 February 2001.

IMPORTANT DATES
Dissertation submission 15 January 2001
Industrial Application submission 12 March 2001
Tools request and submission 12 March 2001
Tutorial submission 12 February 2001