

6-10 November 2001, Florence, Italy







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

IEEE Computer Society's Technical Council on Software Engineering(TCSE) http://tcse.org

The Conference will be held in conjunction with:

- **SCAM**, Source Code Analysis and Manipulation,
- WESS, the Seventh Workshop on Empirical Studies of Software Maintenance
- WSE, the 3rd International Workshop on Web Site Evolution
- Other specialized workshops are welcome, limited slots available

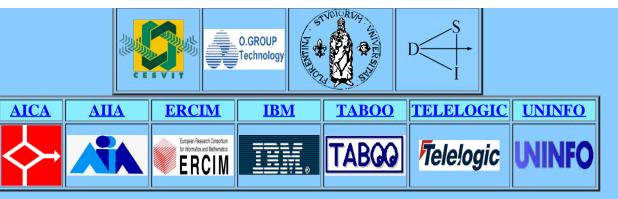
Outstanding Keynotes such as: Prof. David Lorge Parnas, Prof. Dieter Rombach and Dr.Ivar Jacobson

Conference information



In collaboration with:

CESVIT	O Group	Florence Univ.	<u>DSI</u>



Visitors

35765

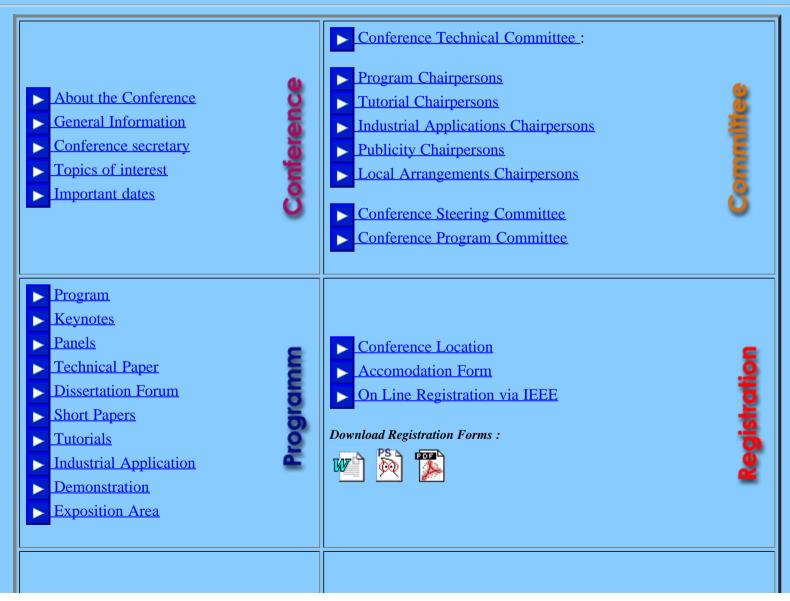
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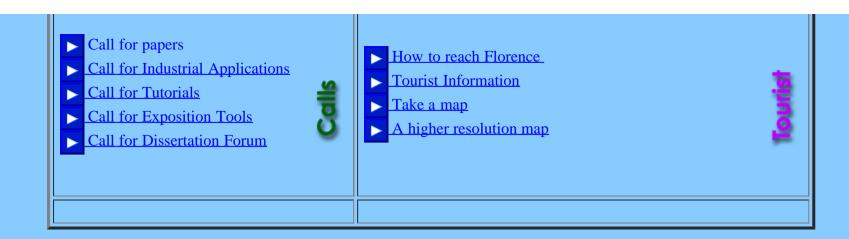
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Conference information





Past ICSM conferences

ICSM 1994 Victoria, Canada ICSM 1995

Nice, France ICSM 1996 Monterey, California, USA ICSM 1997

Bari, Italy

ICSM 1998

Bethesda, Maryland, USA

ICSM 1999

Oxford, UK ICSM 2000 San Jose, California, USA

Proposed Conference email and WWW site:

http://www.dsi.unifi.it/icsm2001 http://www.dsi.unifi.it/ICSM2001 icsm2001@dsi.unifi.it

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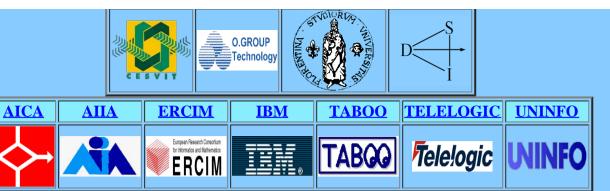
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About the conference

Since its start in 1983, ICSM (International Conference on Software Maintenance) has grown and developed into an international forum for software maintenance researchers and practitioners to examine key issues facing the software maintenance community. Participants from academia, government, and industry share ideas and experiences solving critical software maintenance problems.

The ICSM conference is the premier international (world wide) event in the maintenance field. The importance of software maintenance is being increasingly recognised, both in terms of professional activities, and also through public perception, the Y2K problem (Millennium bug) and the Euro-conversion being the most obvious examples. Hence it is vital for the community of researchers and practitioners to publish, present, and debate the latest results in the field. ICSM proceedings present works of outstanding international excellence, where reports on the latest advances in the field may be found.

Previous ICSM conferences demonstrated tremendous interest and enthusiasm on the part of both researchers and applications personnel for current work in software maintenance. Many excellent papers were submitted and debated, showing that there is increasing interest in the subject.

ICSM is truly an international meeting place for researchers and practitioners in the field. Members of the program committee represent many different countries of the world. Many of the authors of papers also represent the software engineering interests of the international community.

International business competitiveness is dependent on huge quantities of already installed, legacy software. The Y2K event had convinced companies of the value of the legacy software to the operation of their business, and of the critical importance of the proper maintenance of both this legacy software and newly developed software. ICSM is the major international conference in the field of software and systems evolution, maintenance, and management.

We intend to contact the leaders of major European projects (e.g. Esprit, Eureka, Essi, etc.) to HOST one or half day open workshops jointly with ICSM. Universities and no-profit Research Centres in Tuscany and in the close regions are strongly present in several European Commission project programs: TTN HPCN, TTN TOPS.

We also intend to involve AICA, the Italian Computer Society, and TABOO (Italian association on object oriented technologies) to organise collateral events.

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 Conference will be held in conjunction with WESS, the Workshop on Empirical Studies of Software.

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General Information

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Conference Secretary

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Topics of Interest

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The Conference will be held in conjunction with WESS, the Workshop on Empirical Studies of Software.

Topics of interest include but are not restricted to the following aspects of maintenance and evolution:

- Methods and theories - Processes and strategies

- Organizational frameworks - Life cycle and process control

- Design for maintenance - Tools and environments

- Internet and distributed systems - Multimedia systems

- User interface evolution - Commercial off-the-shelf (COTS)

- Third party maintenance - Freeware and open source applications

- Program comprehension - Software and system visualization

- Knowledge based systems

- Formal methods

- Impact of new software practices

- Empirical studies

- Software reusability

- Programming languages

- Source code analysis and manipulation

- Testing and regression testing

- Models and methods for error prediction - Measurement of Software

- Maintenance and/or productivity metrics - Preventive maintenance

- Personnel aspects of maintenance

- Reengineering and reverse engineering

- Version and configuration management - Legal aspects and standards

- Management and organization

- Remote, tele-work, and co-operative applications

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Important dates

Research Paper submission 15 January 2001(closed), notification of acceptance 1 June 2001 (online)

Dissertation submission 15 January 2001 (closed)

Industrial Application submission 12 March 2001(closed)

Tools request and submission 12 March 2001(closed)

Tutorial submission 12 February 2001(closed)

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PROGRAM COMMITTEE

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Conference Program - Final version

Tuesday, Nove	mber 6, 2001					
	ICSM TUTO	Workshops				
9:30-13.00	Ira D. Baxter Systems for S					
13:00-14:00	Lunch					
14:00-17:30	Ned Chapin -					
Wednesday, N	ovember 7, 200	1				
9:30-10:00	ICSM Opening					
10:00-11:00	Keynote 1	Keynote 1				
	ICSM Technical Papers			ICSM Industria track		
11:30-13:00	S1A	S1B	S1C	Industrial Short Papers		
13:00-14:00	Lunch					
14:00-15:30	S2A	S2B	S2C	Demo		
16:00-1730	S3A	S3B	S3C	Demo		
18:00	Reception					
Thursday, Nov	vember 8, 2001					
9:00-10:00	Keynote 2					
	ICSM Techr	ICSM Workshop trac				
10:00	S4A	S4B	S4C	IBM		
10:30				Telelogic		

11:30-12:00	Stevens Award						
12:00	S5A	S5B	S5C	Demo or Vendor			
12:30				Demo or Vendor			
13:00-14:00	Lunch						
14:00-16:00	S6A	S6B	S6C	Dissertation Forum			
16:30-18:00	Panel 1	Panel 1					
18:00	Dinner						
Friday, Novem	iber 9, 2001						
9:00-10:00	Keynote 3						
	ICSM Technical	ICSM Technical Sessions					
10:00-11:30	S8A	S8B	S8C	WESS			
12:00-13:00	Panel 2						
13:00-14:00	Lunch						
14:00-15:30	Industrial Short Papers	S9B	S7C	WESS			
16:00-17:30	S10A	S10B	WESS	WESS			
18:00			SCAM Reception	WESS Reception			
Saturday, Nov	ember 10, 2001						
9:00-18:00	WSE	SCAM					

ICSM Sessions

Tuesday, November 6, 2001

Registration for ICSM, WESS, SCAM, WSE

Extreme Programming

Selected Tutorials:

· 9.30-13.00

T3. Using Automated Transformation Systems for Software Maintenance and Reengineering Instructor: Ira D. Baxter, Ph.D., Semantic Designs, Inc., Austin USA

· 14.00-17.30

T5. Managing Software Maintenance

Instructor: Ned Chapin, InfoSci Inc., Menlo Park, USA

Wednesday, November 7, 2001

Registration for ICSM, WESS, SCAM, WSE

Keynote: Dave Parnas, McMaster University, Canada

Session Chair: Giacomo Bucci

S1A: Reverse engineering

Session Chair: Mary Jean Harrold

Representing and Accessing Extracted Information

Authors: Anthony Cox, Charles Clarke

Supporting Software Maintenance by Mining Software Update Records

Authors: Jelber Sayyad Shirabad, Timothy C. Lethbridge, Stan Matwin

Reverse Engineering Legacy Information Systems for Internet Based Interoperation

Authors: Michael Johnson, Robert Rosebrugh

S1B: Program analysis I

Session Chair: Jianjun Zhao

A Change Propagation Model and Platform for Multi-Database Applications

Authors: L. Deruelle, M. Bouneffa, N. Melab, H. Basson

Implementation Techniques for Efficient Data-Flow Analysis of Large Programs

Authors: Darren C. Atkinson, William G. Griswold

Context Sensitive Flow Analysis to Detect Blocked Statements

Authors: Bruno Malenfant, Giuliano Antoniol, Ettore Merlo, Michel Dagenais

S1C: Impact analysis

Session Chair: Shawn Bohner

The Impact of Software Evolution on Code Coverage Information

Authors: Sebastian Elbaum, David Gable, Gregg Rothermel

Impact Analysis of Maintenance Tasks for a Distributed Object-oriented System

Authors: Harry M. Sneed

Analyzing the Impact of Changing Requirements

Authors: James S. O'Neal, Doris L. Carver

Industrial Short Papers

Session Chair: Harry Sneed

Evolving a Mainframe Order System into a Multi-Channel Online Brokerage System

Siegfried Goeschl

An Architecture for the Reengineering of Client/Server Applications

Antonio Furone

Extending UML to suppoert Evolution Management

Robert France, James Bieman, Ray Trask

Multi-View Archtitecture Trend Analysis for Medical Imaging

Tobias Rötschke, René Krikhaar, Danny Havenith

An Intranet-based application for supporting effective maintenance activities on large software systems

Massimo Contini, Sergio Scotto di Vettimo, Donato Tagliabue

S2A: Metrics

Session Chair: Taz Daughtrey

Entropies as Measures of Software Information

Authors: Salwa K. Abd-El-Hafiz

The Role of Independent Verification and Validation in Maintaining a Safety Critical Evolutionary Software in a Complex

Environment: The NASA Space Shuttle Program

Authors: Marvin Zelkowitz, Ioana Rus

Investigation of the Risk to Software Reliability and Maintainability of Requirements Changes

Authors: Norman F. Schneidewind

S2B: Slicing

Session Chair: Jeffrey Voas

Pre/Post Conditioned Slicing

Authors: Sebastian Danicic, Chris Fox, Mark Harman, Rob Hierons

Web Application Slicing

Authors: Filippo Ricca, Paolo Tonella

Incremental Slicing Based on Data-Dependences Types

Authors: Alessandro Orso, Saurabh Sinha, Mary Jean Harrold

S2C: Change driven testing

Session Chair: Lee White

Incorporating Incremental Validation and Impact Analysis into Spreadsheet Maintenance: An Empirical Study

Authors: Vijay B. Krishna, Curtis R. Cook, Daniel Keller, Joshua Cantrell, Chris Wallace, Margaret M. Burnett, Gregg Rothermel

An Implementation of and Experiment with Semantic Differencing

Authors: David Binkley, Rob Capellini, L. Ross Raszewski, Christopher Smith

Test-suite Reduction and Prioritization for Modified Condition/Decision Coverage

Authors: James A. Jones, Mary Jean Harrold

Demos

Session Chair: Panos Linos

Analysis, Checking, Measurement and Postdocumentation of Object-oriented Systems

Author: Harry Sneed

Platform for language processing Tools

Author: Darius Blasband

Auditing Legacy Application Systems

Author: Erika Nyary

Understanding Legacy systems with OSK

Authors: A. Brizioli, L.Chiocci, M. Loffredo

Sash weblications, a highly evolved network client application platform

Authors: John Ponzo, Sean Martin

WebFabIS: a WEB based information system for microelectronics manufacturing

Authors: Lorenza Ferrario, Cristina Armaroli

S3A: Effort analysis

Session Chair: Fabrizio Fioravanti

Using code metrics to predict maintenance of legacy programs: a case study

Authors: Macario Polo, Mario Piattini, Francisco Ruiz

Software Renewal Process Comprehension using Dynamic Effort Estimation

Authors: Danilo Caivano, Filippo Lanubile, Giuseppe Visaggio

An Approach to Modelling Long-Term Growth Trends in Large Software Systems

Authors: J. F. Ramil, M. M. Lehman, U. Sandler

S3B: Tools

Session Chair: Panos Linos

RIPPLES: Tool for Change in Legacy Software

Authors: Kunrong Chen, Václav Rajlich

Cost-Effective Maintenance Tools for Proprietary Languages

Authors: Merijn de Jonge, Ramin Monajemi

Integrating Information Sources for Visualizing Java Programs

Authors: Jeff Michaud, Margaret-Anne Storey, Hausi Müller

S3C: Case studies

Session Chair: Loredana Mancini

Defect Prevention through Defect Prediction: A Case Study at Infosys

Authors: Sanjay Mohapatra, Srinivas P

Modeling clones evolution through time series

Authors: G. Antoniol, G. Casazza, M. Di Penta, E. Merlo

Does the Modern Code Inspection Have Value?

Authors: Harvey Siy, Lawrence Votta

Cocktail of Software Engineering Week in Florence

Baglioni Hotel Terrace

Thursday, November 8, 2001

Registration for ICSM, WESS, SCAM, WSE

Keynote: Dieter Rombach, Fraunhofer Institut IESE, Germany

Session Chair: Gerardo Canfora

Assignment of Stevens Award

Stevens Award winner: Peter Chen

Session Chair: Elliot Chikofsky

Industrial Presentations

Session Chair:

IBM presentationdetails will be defined......

Telelogic Presentationdetails will be defined......

S4A: Rapid evolution

Session Chair: Ned Chapin

An Architectural Model for Service-Based Software with Ultra Rapid Evolution

Authors: Keith Bennett, Malcolm Munro, Nicolas Gold, Paul Layzell, David Budgen, Pearl Brereton

Extreme Maintenance

Authors: Charles J. Poole, Tim Murphy, Jan Willem Huisman, Allen Higgins

S4B: Software architectures I

Session Chair: Jean-Francois Girard

Aspects of design and implementation of a multi-channel and multi-modal information system

Authors: V. Demesticha, J. Gergic, J. Kleindienst, M. Mast, L. Polymenakos, H. Schulz, L. Seredi

Describing Evolving Dependable Systems using Co-operative Software Architectures

Authors: Rogério de Lemos

S4C: Behaviour of concurrent programs

Session Chair: Ira D. Baxter

Measuring Behavioral Correspondence to a Timed Concurrent Model

Authors: Jonathan Cook, Cha He, Changjun Ma

Using Coordination to Restructure Sequential Source Code into a Concurrent Program

Authors: C. T. H. Everaars, F. Arbab, B. Koren

S5A: Documentation

Session Chair: Nicholas Zvegintzov

The State of Documentation Practice within Corrective Maintenance

Authors: Mira Kajko-Mattsson, and students of the course on Software Maintenance (Lola Andersson, Andreas Eriksson, Fredrik Börjesson, Nine Grundemark, Sandra Giarimi, Rasmus Gunnar, Karl Heling, Mia Kokko, Magnus Pettersson, Maria Petterson, Åsa Maria Pettersson, Jolanta Plisko, Maria Luisa Quiroga de Arreyes, Fabian Rivière, Helena Sjöberg, Fredrik Schmidt, Urban Örthberg, Leila Vanhala-Packendorff, Tove Wättestam)

CVSSearch: Searching through Source Code using CVS Comments

Authors: Annie Chen, Eric Chou, Joshua Wong, Andrew Y. Yao, Qing Zhang, Shao Zhang, Amir Michail

S5B: UML

Session Chair: Norman Schneidewind

Reverse Engineering of the UML Class Diagram from C++ Code in Presence of Weakly Typed Containers

Authors: Paolo Tonella, Alessandra Potrich

Multi-View Software Evolution: A UML-based Framework for Evolving Object-Oriented Software

Authors: Robert France, James Bieman

S5C: Software architectures II

Session Chair:

The Build-Time Software Architecture View

Authors: Qiang Tu, Michael W. Godfrey

A Graph Pattern Matching Approach to Software Architecture Recovery

Authors: Kamran Sartipi, Kostas Kontogiannis

S6A: Maintenance process assessment and improvement

Session Chair: Raj Sood

An Empirical Study of Maintenance Issues within Process Improvement Programmes in the Software Industry

Authors: Tracy Hall, Austen Rainer, Nathan Baddoo, Sarah Beecham

Suggestions for Extensions to ISO/IEC FDIS 14764

Authors: Mira Kajko-Mattsson, Anna Grimlund Glassbrook, Maria Nordin

Introducing Workflow Management in Software Maintenance Processes

Authors: Lerina Aversano, Sergio Betti, Andrea De Lucia, Silvio Stefanucci

Assessing Massive Maintenance Processes: an Empirical Study

Authors: Andrea De Lucia, Antonello Pannella, Eugenio Pompella, Silvio Stefanucci

S6B: Distributed object systems

Session Chair: Scott Tilley

A customization Method for Network Management Functions without Modification of Off-the-shelf Components

Authors: T. Otani, Y. Yamamoto

A Framework for Re-use and Maintenance of Quality of Service Mechanisms in Distributed Object Systems

Authors: Kurt Geihs, Christian Becker

Changing Java Programs

Authors: Susan Eisenbach, Chris Sadler

Live Upgrades of CORBA Applications Using Object Replication

Authors: L. A. Tewksbury, L. E. Moser, P. M. Melliar-Smith

S6C: Business models

Session Chair: Alberigi Quaranta

Towards a Business Maintenance Model

Authors: Mira Kajko-Mattsson

A Queue Theory-Based Approach to Staff Software Maintenance Centers

Authors: M. Di Penta, F. Rago, G. Di Lucca, G. Antoniol, G. Casazza

K-Mediator: Towards Evolving Information Systems

Authors: H. Zedan, S. Zhou, N. Sampat, X. Chen, A. Cau, H. Yang

A Client-Benefits Oriented Taxonomy of ERP Maintenance

Authors: Celeste See Pui Ng, Taizan Chan, Guy G. Gable

Dissertation forum

Session Chair: Alessandro Fantechi

Dynamically Discovering Likely Program Invariants

Author: Michael D. Ernst

Hypothesis-Based Concept Assignment to Support Software Maintenance

Author: Nicolas Edwin Gold

A Formal Foundation for Object-Oriented Software Evolution

Author: Tom Mens

Perspectives on Improving Software Maintenance

Author: Frank Niessink

A Metric Framework for the Assessment of Object Oriented Systems

Author: Fabrizio Fioravanti

A Database Evolution Approach for Object-Oriented Databases

Author: M. Awais Rashid

Bayesian Analysis of Software Cost and Quality Models

Author: Sunita Devnani-Chulani

Panel 1: Software Evolution: Roadmap

Chair: K. H. Bennett, University of Durham, UK

V. T. Rajlich, Wayne State University, USA

Panel members:

D. Parnas, McMaster University, Canada

H. Sneed, Independent Consultant, Germany

K. Beck, CSLife, Switzerland

P. J. Layzell, University of Sussex, UK

Social Dinner and visit

Friday, November 9, 2001

Registration for ICSM, WESS, SCAM, WSE

Keynote: Ivar Jacobson, Rational, USA

Four Macro Trends in Software Development

Session Chair: Anneliese. Amschler Andrews

S8A: Dynamic and static analysis

Session Chair: Mark Harman

Dynamic and Static Views of Software Evolution

Authors: Stephen Cook, He Ji, Rachel Harrison

Aiding Program Comprehension by Static and Dynamic Feature Analysis

Authors: Thomas Eisenbarth, Rainer Koschke, Daniel Simon

Form: A Framework for Creating Views of Program Executions

Authors: Tim Souder, Spiros Mancoridis, Maher Salah

S8B: Legacy systems

Session Chair: Roberto Ciampoli

Using Design Recovery Techniques to Transform Legacy Systems

Authors: Thomas R. Dean, James R. Cordy, Kevin A. Schneider, Andrew J. Malton

Iterative Reengineering of Legacy Functions

Authors: Alessandro Bianchi, Danilo Caivano, Vittorio Marengo, Giuseppe Visaggio

A Decisional Framework for Legacy System Management

Authors: Andrea De Lucia, Anna Rita Fasolino, Eugenio Pompella

S8C: Industrial Short papers

Session Chair: Pierfrancesco Bellini

Automating Language Conversion: A Case Study

Authors: Andrey A. Terekhov,

The FermaT Assembler Re-engineering Workbench

Authors: Martin Ward,

Architecture-Based Semantic Evolution: A Study of Remotely Controlled Embedded Systems

Authors: Nary Subramanian, Lawrence Chung

Software Maintenance: An Approach towards Control

Authors: Rob J. Kusters, Fred J. Heemstra

S9B: Program analysis II

Session Chair: Mark Harman

A Program Dependence Model for Concurrent Logic Programs and its Applications

Authors: Jianjun Zhao, Jingde Cheng, Kazuo Ushijima

Incremental Call Graph Reanalysis for Object-Oriented Software Maintenance

Authors: Amie L. Souter, Lori L. Pollock

Syntax-Directed Construction of Value Dependence Graphs

Authors: David Byers, Mariam Kamkar, Ture Pålsson

S10A: Testing

Session Chair: Maurizio Campanai

A Graphical Representation of Classes for Integrated Black- and White-Box Testing

Authors: Sami Beydeda, Volker Gruhn, Michael Stachorski

Using Component Metadata to Support the Regression Testing of Component-Based Software

Authors: Mary Jean Harrold, Alessandro Orso, David Rosenblum, Gregg Rothermel, Mary Lou Soffa, Hyunsook Do

Managing the Maintenance of Ported, Outsourced, and Legacy Software via Orthogonal Defect Classification

Authors: Kathryn Bassin, P. Santhanam

S10B: Reengineering

Session Chair: Harry Sneed

Automated Support for Program Refactoring using Invariants

Authors: Yoshio Kataoka, Michael D. Ernst, William G. Griswold, David Notkin

Comparing the Decompositions Produced by Software Clustering Algorithms using Similarity Measurements

Authors: Brian S. Mitchell, Spiros Mancoridis

The Method Replacement Indicator: A Metric for Analyzing Behavioral Substitution

Authors: Reinhard Schauer, Rudolf K. Keller

Panel 2: Maintenance Metrics: Who are the different stakeholders?

Chair: Loredana Mancini, Getronics Consulting, Italy
Panel members:

A. Grillo, Associazione Italiana EDP Auditors - EIEA, Italy

N. Cimitile. Magnifico Rettore Università del Sannio, Italy

R. Ehmer, Getronics, Germany

S. Fabrizi, Banca d'Italia, Italy

S7C: Design patterns

Session Chair:

A Declarative Evolution Framework for Object-Oriented Design Patterns

Authors: Tom Mens, Tom Tourwé

OO Design Patterns, Design Structure, and Program Changes: An Industrial Case Study

Authors: James M. Bieman, Dolly Jain, Helen J. Yang

Sections of WESS

ICSM Closure

WESS & SCAM Reception

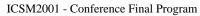
WESS Closure

Saturday, November 10, 2001

Registration for SCAM, WSE

Sections of SCAM

Sections of WSE



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Program

Keynote

Session Chair: Giacomo Bucci

Dave Parnas, McMaster University, Canada ¾ "Design for Maintenance and Maintaining Design"

Keynote

Session Chair: Gerardo Canfora

Dieter Rombach, Fraunhofer Institut IESE, Germany

Keynote

Session Chair: Anneliese Amschler Andrews

Ivar Jacobson, Rational, USA 3/4 "Four Macro Trends in Software Development"

FLORENCE: history and some hints.

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PANELS

First panel Software evolution: Roadmap

chair:

• K. H. Bennett, University of Durham, UK,

panelmembers:

- D. Parnas, McMaster University, Canada
- K. Beck,
- P. J. Layzell, UMIST, UK
- V. T. Rajlich, Wayne State University, USA
- H. Sneed, Independent Consultant, DE

Second Panel Maintenance Metrics: who are the different stakeholders?

chair:

• Loredana Mancini (O.Group Technology)

panelmembers:

- Romeo Ehmer (Getronics)
- Stefano Fabrizi (Banca d'Italia)
- Agatino Grillo (Associazione Italiana EDP Auditors AIEA)
- Nello Cimitile (Magnifico Rettore Università del Sannio)

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icsm2001@dsi.unifi.it





TECHNICAL PAPERS

Reverse engineering

- Representing and Accessing Extracted Information Anthony Cox, Charles Clarke.
- Supporting Software Maintenance by Mining Software Update Records Jelber Sayyad Shirabad, Timothy C. Lethbridge, Stan Matwin.
- Reverse Engineering Legacy Information Systems for Internet Based Interoperation Michael Johnson, Robert Rosebrugh.

Program analysis

- A Change Propagation Model and Platform for Multi-Database Applications L. Deruelle, M. Bouneffa, N. Melab, H. Basson.
- Implementation Techniques for Efficient Data-Flow Analysis of Large Programs Darren C. Atkinson, William G. Griswold.
- Context Sensitive Flow Analysis to Detect Blocked Statements Bruno Malenfant, Giuliano Antoniol, Ettore Merlo, Michel Dagenais.

Change driven testing

- Incorporating Incremental Validation and Impact Analysis into Spreadsheet Maintenance: An Empirical Study
 - Vijay B. Krishna, Curtis R. Cook, Daniel Keller, Joshua Cantrell, Chris Wallace, Margaret M. Burnett, Gregg Rothermel.
- An Implementation of and Experiment with Semantic Differencing David Binkley, Rob Capellini, L. Ross Raszewski, Christopher Smith.
- Test-suite Reduction and Prioritization for Modified Condition/Decision Coverage James A. Jones, Mary Jean Harrold.

Metrics

- Entropies as Measures of Software Information Salwa K. Abd-El-Hafiz.
- The Role of Independent Verification and Validation in Maintaining a Safety Critical Evolutionary Software in a Complex Environment: The NASA Space Shuttle Program Marvin Zelkowitz, Ioana Rus.
- Investigation of the Risk to Software Reliability and Maintainability of Requirements Changes Norman F. Schneidewind.

Slicing

- Pre/Post Conditioned Slicing
 Sebastian Danicic, Chris Fox, Mark Harman, Rob Hierons.
- Web Application Slicing Filippo Ricca, Paolo Tonella.
- Incremental Slicing Based on Data-Dependences Types Alessandro Orso, Saurabh Sinha, Mary Jean Harrold.

Impact analysis

- The Impact of Software Evolution on Code Coverage Information Sebastian Elbaum, David Gable, Gregg Rothermel.
- Impact Analysis of Maintenance Tasks for a Distributed Object-oriented System Harry M. Sneed.
- Analyzing the Impact of Changing Requirements James S. O'Neal, Doris L. Carver.

Effort analysis

- Using code metrics to predict maintenance of legacy programs: a case study Macario Polo, Mario Piattini, Francisco Ruiz.
- Software Renewal Process Comprehension using Dynamic Effort Estimation Danilo Caivano, Filippo Lanubile, Giuseppe Visaggio.
- An Approach to Modelling Long-Term Growth Trends in Large Software Systems J. F. Ramil, M. M. Lehman, U. Sandler.

Tools

- RIPPLES: Tool for Change in Legacy Software Kunrong Chen, Václav Rajlich.
- Cost-Effective Maintenance Tools for Proprietary Languages

- Merijn de Jonge, Ramin Monajemi.
- Integrating Information Sources for Visualizing Java Programs Jeff Michaud, Margaret-Anne Storey, Hausi Müller.

Case studies

- Defect Prevention through Defect Prediction: A Case Study at Infosys Sanjay Mohapatra, Srinivas P.
- Modeling clones evolution through time series G. Antoniol, G. Casazza, M. Di Penta, E. Merlo.
- Does the Modern Code Inspection Have Value? Harvey Siy, Lawrence Votta

Rapid evolution

- An Architectural Model for Service-Based Software with Ultra Rapid Evolution Keith Bennett, Malcolm Munro, Nicolas Gold, Paul Layzell, David Budgen, Pearl Brereton.
- Extreme Maintenance Charles J. Poole, Tim Murphy, Jan Willem Huisman, Allen Higgins.

Software architectures

- Aspects of design and implementation of a multi-channel and multi-modal information system V. Demesticha, J. Gergic, J. Kleindienst, M. Mast, L. Polymenakos, H. Schulz, L. Seredi.
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Documentation

The State of Documentation Practice within Corrective Maintenance
 Mira Kajko-Mattsson, and students of the course on Software Maintenance (Lola Andersson, Andreas Eriksson, Fredrik Börjesson, Nine Grundemark, Sandra Giarimi, Rasmus Gunnar, Karl Heling, Mia Kokko, Magnus Pettersson, Maria Petterson, Åsa Maria Pettersson, Jolanta Plisko, Maria Luisa Quiroga de Arreyes,

- Fabian Rivière, Helena Sjöberg, Fredrik Schmidt, Urban Örthberg, Leila Vanhala-Packendorff, Tove Wättestam)
- CVSSearch: Searching through Source Code using CVS Comments
 Annie Chen, Eric Chou, Joshua Wong, Andrew Y. Yao, Qing Zhang, Shao Zhang, Amir Michail.

UML

- Reverse Engineering of the UML Class Diagram from C++ Code in Presence of Weakly Typed Containers Paolo Tonella, Alessandra Potrich.
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- A Graph Pattern Matching Approach to Software Architecture Recovery Kamran Sartipi, Kostas Kontogiannis.

Maintenance process assessment and improvement

- An Empirical Study of Maintenance Issues within Process Improvement Programmes in the Software Industry
 - Tracy Hall, Austen Rainer, Nathan Baddoo, Sarah Beecham.
- Suggestions for Extensions to ISO/IEC FDIS 14764
 Mira Kajko-Mattsson, Anna Grimlund Glassbrook, Maria Nordin.
- Introducing Workflow Management in Software Maintenance Processes Lerina Aversano, Sergio Betti, Andrea De Lucia, Silvio Stefanucci.
- Assessing Massive Maintenance Processes: an Empirical Study Andrea De Lucia, Antonello Pannella, Eugenio Pompella, Silvio Stefanucci.

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 - T. Otani, Y. Yamamoto.
- A Framework for Re-use and Maintenance of Quality of Service Mechanisms in Distributed Object Systems Kurt Geihs, Christian Becker.
- Changing Java Programs
 Susan Eisenbach, Chris Sadler.
- Live Upgrades of CORBA Applications Using Object Replication

L. A. Tewksbury, L. E. Moser, P. M. Melliar-Smith.

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- Towards a Business Maintenance Model Mira Kajko-Mattsson.
- A Queue Theory-Based Approach to Staff Software Maintenance Centers M. Di Penta, F. Rago, G. Di Lucca, G. Antoniol, G. Casazza.
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- Dynamic and Static Views of Software Evolution Stephen Cook, He Ji, Rachel Harrison.
- Aiding Program Comprehension by Static and Dynamic Feature Analysis Thomas Eisenbarth, Rainer Koschke, Daniel Simon.
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- Iterative Reengineering of Legacy Functions Alessandro Bianchi, Danilo Caivano, Vittorio Marengo, Giuseppe Visaggio.
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Program analysis

- A Program Dependence Model for Concurrent Logic Programs and its Applications Jianjun Zhao, Jingde Cheng, Kazuo Ushijima.
- Incremental Call Graph Reanalysis for Object-Oriented Software Maintenance Amie L. Souter, Lori L. Pollock.
- Syntax-Directed Construction of Value Dependence Graphs David Byers, Mariam Kamkar, Ture Pålsson.

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- A Graphical Representation of Classes for Integrated Black- and White-Box Testing Sami Beydeda, Volker Gruhn, Michael Stachorski
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- Managing the Maintenance of Ported, Outsourced, and Legacy Software via Orthogonal Defect Classification Kathryn Bassin, P. Santhanam

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- Comparing the Decompositions Produced by Software Clustering Algorithms using Similarity Measurements Brian S. Mitchell, Spiros Mancoridis.
- The Method Replacement Indicator: A Metric for Analyzing Behavioral Substitution Reinhard Schauer, Rudolf K. Keller.

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DISSERTATION FORUM

- Dynamically Discovering Likely Program Invariants Michael D. Ernst.
- Hypothesis-Based Concept Assignment to Support Software Maintenance Nicolas Edwin Gold.
- A Formal Foundation For Object-Oriented Software Evolution Tom Mens.
- Perspectives on Improving Software Maintenance Frank Niessink.
- A Metric Framework For The Assessment Of Object Oriented Systems Fabrizio Fioravanti.
- A Database Evolution Approach for Object-Oriented Databases M. Awais Rashid.
- Bayesian Analysis Of Software Cost And Quality Models Sunita Devnani-Chulani.

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SHORT PAPERS

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- The FermaT Assembler Re-engineering Workbench Martin Ward.
- Architecture-Based Semantic Evolution: A Study of Remotely Controlled Embedded Systems Nary Subramanian, Lawrence Chung.
- Software maintenance: an approach towards control Rob J. Kusters, Fred J. Heemstra.

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Tutorials

Final list of selected tutorials								
Tuesday, November 6, 2001								
9.30-13.00	Ira Baxter	Using Automated Transformation Systems for Software Maintenance and Reengineering						
14.00-17.30	Ned Chapin	Managing Software Maintenance						

Registration to the tutorials.

The registration fee for the tutorial day is unique and allows attending both scheduled tutorial.

Registered participants will anyway receive at the registration desk the paper version of handouts of the tutorials.

On-line registration

We apologize with the pre-registered that we were not able, due to budget restrictions, offer more than two tutorials. As previously published, in the case a pre-registered participant had selected no tutorials that are offered in the list above, he/she is entitled to attend the tutorials above, but he/she may also decide to cancel his/her registration at no cost.

Proposed Conference email and WWW site:

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Industrial Application

- Extreme Maintenance
 - Charles J. Poole; Tim Murphy; Jan Willem Huisman; Allen Higgins
- Evolving a Mainframe Order System into a Multi-Channel Online Brokerage System Siegfried Goeschl
- An Architecture for the Reengineering of Client/Server Applications
 Antonio Furone
- Extending UML to suppoert Evolution Management Robert France, James Bieman, Ray Trask
- Multi-View Archtitecture Trend Analysis for Medical Imaging Tobias Rötschke, René Krikhaar, Danny Havenith
- An Intranet-based application for supporting effective maintenance activities on large software systems Massimo Contini, Sergio Scotto di Vettimo, Donato Tagliabue

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Demonstration

- Analysis, Checking, Measurement and Postdocumentation of Object-oriented Systems Harry Sneed
- Platform for language processing Tools Darius Blasband
- Auditing Legacy Application Systems Erika Nyary
- Understanding Legacy systems with OSK
 A. Brizioli, L.Chiocci, M. Loffredo
- Sash weblications, a highly evolved network client application platform John Ponzo & Sean Martin
- WebFabIS: a WEB based information system for microelectronics manufacturing Lorenza Ferrario & Cristina Armaroli

Proposed Conference email and WWW site:

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EXPOSITION AREA

- IBM Italia
- TELELOGIC
- John Wiley & Sons Ltd

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ICSM 2001 Location

• ICSM 2001 is located at the Grand Hotel Baglioni

P.zza Unità Italiana, 6 50123 Florence, Italy Tel. +39 055 23580 Fax +39 055 2358895

- Please consider that in order to have lower prices you have to use the following accommodation form.
- Download <u>a map</u> of the central part of Florence.

Proposed Conference email and WWW site: http://www.dsi.unifi.it/icsm2001 http://www.dsi.unifi.it/ICSM2001 icsm2001@dsi.unifi.it



6 – 10 November Florence, Italy

ICSM / SCAM / WESS 2001 Conference Registration Form

To register, fax or mail this form to the address at the right. **Payment should be received by 15 October 2001.**Registration forms without payment will not be processed, and you must re-register onsite with payment. For questions

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Washington, DC 20042-6006
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Registration (All	fees are in U	S Dollars)							
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Please make checks payable to: **IEEE Computer Society**. All checks must be in US DOLLARS drawn on US BANKS. Credit card charges will appear on statement as "IEEE Computer Society - Registration." Cancellations must be in writing and received before **22 October 2001.** Cancellations are subject to a \$50 processing fee. Substitutions are allowed at anytime.

ICSM / SCAM / WESS 2001

Registration Information (page 1)

Registering

Print the this PDF form, fill in the requested information, and mail or fax it with your payment to IEEE Computer Society at the address on the first page. Phone registrations will not be accepted.

To qualify for advance registration discounts, registration form **and** payment must be received by the deadline. Registrations received after the deadline will be charged at the late/on-site registration rate. Those received after the late deadline may not be acknowledged or accepted and may require processing and payment onsite.

Important Dates

- 15 October 2001 -- Advance registration ends 5:00 pm Eastern Time, lates fees apply
- 22 October 2001 -- Cancellation deadline -- cancellations MUST be in writing
- 22 October 2001 -- Late registration ends
- 22 October 2001 -- All wire transfers and check payments must be received to avoid onsite registration and payment. Copies are not accepted.

Registration Confirmation

Written confirmation of conference registration will be mailed by the IEEE Computer Society by postal mail within two days of receiving your registration. If you do not receive confirmation, please call +1-202-371-0101, or email us at register@computer.org. Please reference ICSM/ SCAM/WESS conference.

Member and Student Discounts

To qualify for the discounted Member rates, you must be a member of IEEE or the IEEE Computer Society, and include your membership number(s). To quaify for the Student rate you must be a full time student. Students must present their ID onsite. Nonmembers can save by applying for membership at http://www.computer.org/join/

Payment

Payment must accompany all registration forms and can be made by credit card (MasterCard, VISA, American Express, Diners Club), check, or wire transfer. Checks or money orders must be in U.S. funds, drawn on U.S. banks, and payable to the IEEE Computer Society. No registrations will be accepted over the phone. *Forms received without actual payment WILL NOT be processed*.

International Attendees

International attendees can register online by credit card or in advance by sending a wire transfer. Wire transfers must be received by the deadline, and will not be accepted at on-site registration. For complete wire transfer information please contact register@computer.org, and reference ICSM/SCAM/WESS. **PLEASE NOTE: Please include the additional \$25 bank fee per wire transfer.**

On-site Registration

On-site registrants will pay late registration fees. Credit cards (MasterCard, VISA, American Express, Diners Club) are the preferred form of payment. All checks must be in US funds drawn on US banks. Wire transfers will not be accepted.

Cancellations and Substitutions

Cancellations and substitutions are allowed. However, full registration fees will be charged unless a cancellation notice is sent in writing, and received or faxed before the deadline:

IEEE Computer Society Attn: ICSM/SCAM/WESS 1730 Massachusetts Avenue, NW Washington, DC 20036 USA Fax: +1-202-728-0884

A \$50 handling fee will be applied to all canceled registrations. Fees cannot be refunded for registrations canceled after the meeting begins. No-shows will be billed. Contact the IEEE Computer Society at the above address for substitutions (allowed at any time). A letter on your company's letterhead is required from the original registrant stating the conditions of the substitution and the name of the replacement.

Individual Conference Information

ICSM CONFERENCE REGISTRATION

Registration includes admission to ICSM conference sessions, ICSM conference proceedings, industry track slide presentations, and a visit to the Uffizi Museum. Also included are the ICSM meals which include refreshment breaks, lunches, a reception and a conference dinner. Extra tickets are available for guests for the conference dinner and should be purchased at the time you register to ensure adequate seating (breakfasts are included in your hotel fee).

WESS CONFERENCE REGISTRATION

Registration includes admission to WESS conference sessions, WESS conference proceedings, industry track slide presentations, WESS refreshment breaks, WESS conference reception, and WESS conference lunches. (breakfasts are included in your hotel fee).

SCAM CONFERENCE REGISTRATION

Registration includes admission to all SCAM conference sessions, SCAM conference proceedings, industry track slide presentations, SCAM refreshment breaks, SCAM conference reception, and SCAM conference lunches. (breakfasts are included in your hotel fee).

ICSM TUTORIAL REGISTRATION

- 1) Half-day Tutorials will be offered on one day (6th Nov. 2001) in parallel sessions, morning and afternoon.
- 2) Tutorial registration is for the whole Tutorial day, and allows attending any 2 scheduled Tutorials or moving from one to the others.
- 3) Registrants before 15th September are requested to select 3 Tutorials out of 10 as their preferred choice.
- 4) On the basis of the preferences scored at preregistration before 15th September, only the (at most) 8 best scoring Tutorials will be offered. (Less than 8 Tutorials may be offered if the scores are too low, or depending on budget considerations.) The list of the offered Tutorials will be published on the web after 15th of September.
- 5) Pre-registered participants will receive at the registration desk the paper version of handouts of the Tutorials they selected at preregistration (up to 3 booklets). Additional booklets will be available at an extra price.

Though we will try to schedule Tutorials in order to minimize collisions on the basis of the selection at preregistration, we cannot guarantee the attendee that the Tutorials that he/she selected will not overlap.

If a pre-registered attendee has selected 3 Tutorials and none of them is offered, he/she may cancel his/her registration, or may maintain the registration, being free to attend any 2 Tutorials, and in this case he/she may indicate in advance the extra booklets he/she is willing to receive (up to the number of 3).

If a pre-registered attendee has selected 3 Tutorials and only one of them is offered, he/she may indicate in advance the extra booklets he/she is willing to receive (up to the number of 3).

OTHER INFORMATION

Airline Discount for Conference Attendees

We are pleased to announce that we have been able to secure a special discount agreement with United Airlines unavailable to the general public.

A 5% discount off the lowest applicable fare will be offered ONLY when you or your travel agent call United's toll-free number, 1-800-521-4041 and refer to the Meeting ID Number 556AQ. A 10% discount off the unrestricted mid-week coach fares is available when purchased 7 days in advance. Discounts apply on United, Shuttle by United and United Express. Dedicated reservationists are on duty 7 days a week, 7:00 am to 12:00 midnight EST. Book early to take advantage of promotional fares that give you the greatest discount. Mileage Plus members receive full credit for all miles flown to this meeting.

Questions

Questions about this form or the registration process should be directed to register@computer.org. (Please reference ICSM/SCAM/WESS registration)

6 – 10 November Florence, Italy ICSM/SCAM/WESS 2001

Registration Information (page 2)



Call for Papers

closed

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.

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The Conference will be held in conjunction with

- SCAM, Source Code Analysis and Manipulation
- WESS, the seventh Workshop on Empirical Studies of Software Maintenance.
- WSE, Workshop on WEBsite evolution

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

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. Papers should be 2000 - 5000 words in length, in English (accepted papers will have 10 pages in the proceedings). Submit them in PDF or PostScript via email to icsm2001@unisannio.it by **15 January 2001 (closed)**.

Notification of acceptance 1 June 2001(online).

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.

Topics of interest include but are not restricted to the following aspects of maintenance and evolution:

- Methods and theories - Processes and strategies

- Organizational frameworks - Life cycle and process control

- Design for maintenance - Tools and environments

- Internet and distributed systems - Multimedia systems

- User interface evolution - Commercial off-the-shelf (COTS)

- Third party maintenance - Freeware and open source applications

- Program comprehension - Software and system visualization

- Knowledge based systems - Formal methods

- Impact of new software practices - Empirical studies

- Software reusability - Programming languages

- Source code analysis and manipulation - Testing and regression testing

- Models and methods for error prediction - Measurement of software

- Maintenance and/or productivity metrics - Preventive maintenance

- Personnel aspects of maintenance - Reengineering and reverse engineering

- Version and configuration management - Legal aspects and standards

- Management and organization - Remote, tele-work, and co-operative applications









Download Call For Papers File:

Proposed Conference email and WWW site:

http://www.dsi.unifi.it/icsm2001 http://www.dsi.unifi.it/ICSM2001 icsm2001@dsi.unifi.it

Webmaster: <u>Marius Spinu</u> Contact me for any question or comment.



Duke's sensitive nose with unpleasant smells on his walk, and replaced (from 1593) with the goldsmiths who continue to work there today. On the other side of the Arno, the corridor passes through the interior of the church of Santa Felicita, over the tops of the houses and the gardens of the Guicciardini family until it finally reaches the Boboli gardens (one of the exits stands beside Buontalenti's Grotto) and the apartments in the Pitti Palace.



Call for Industrial Applications

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

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. (closed)

Industrial Applications proposals will be reviewed by a designated sub-committee of the program committee and a 1 page summary of accepted proposals will be included in the conference proceedings.

Proposals have to include:

- a one page abstract on what the presentation comprises
- Company profile
- the position of the submitter within the Company (software engineer, CEO, CIO, maintenance programmer, etc.)
- a preliminary version of the slides

Topics of interest include but are not restricted to the following aspects of maintenance and evolution:

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- Design for maintenance - Tools and environments

- Internet and distributed systems - Multimedia systems

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- Maintenance and/or productivity metrics - Preventive maintenance

- Personnel aspects of maintenance - Reengineering and reverse engineering

- Version and configuration management - Legal aspects and standards

- Management and organization - Remote, tele-work, and co-operative applications

Proposed Conference email and WWW site:

http://www.dsi.unifi.it/icsm2001 http://www.dsi.unifi.it/ICSM2001

ICSM 2001 - Call for Industrial Applications

icsm2001@dsi.unifi.it





Tutorial Proposals

Dates

12 February 2001 for tutorial proposals.1 June 2001 for acceptance notification.

Goal

The ICSM tutorial program provides conference participants with the opportunity gain new insights, knowledge, and skills in the areas of software and systems maintenance, evolution, and management..

Scope

We are soliciting proposals for half-day (3-hour) tutorials. A tutorialcan cover a wide range of topics, from practical techniques, guidelinessurveys, to theoretical issues. We encourage tutorials that reflect theconference themes and provide clear utility to practitioners. The topicsare not limited to past ICSM tutorial offerings.

Tutorials are intended to provide independent instruction on a relevant, therefore no commercial or sales-oriented presentations will be accepted.

Potential tutorialists should keep in mind that there may be quite avaried audience, including software practitioners, managers, teachers, researchers, and students. The tutorialists should be prepared to copewith this diversity unless they make clear that the tutorial is oriented a particular subgroup. Also bear in mind that not everyone will have English as their first language. Thus, presenters should provide comprehensivenotes written in clear, standard English. Idioms, irony, slang and culture-specific references should be avoided as far as possible.

Review Process

Each tutorial proposal will be evaluated on its anticipated benefit forprospective participants and its fit within the tutorial program as a whole. Factors to be

considered also include: relevance, timeliness, importance, and audience appeal; suitability for presentation in a half-day tutorial format; effectiveness of teaching methods; and past experience and qualifications of the instructors.

How to Submit

The tutorial proposal should include a title, proposer's contact information and biography, tutorial aims and objectives, purpose and scope, duration and timeline and a summary.

If applicable, give also information about:

availability of support material (e.g. on the web), target audience, required background, history of the tutorial, equipment needed, some examples of slides.

The format of tutorial proposals (maximum ten pages) may be:

- ASCII text (plain or HTML), or
- Adobe Portable Document Format
- Postscript format.

Submit proposals via e-mail to icsm2001@unisannio.it by 12 February 2001. (closed)

Acceptance Notification

Notification of acceptance date is set to 1 June 2001.

Each accepted tutorial will have one pages for a summary in the conference proceedings.

This summary must conform to the standard 2-columns IEEE proceedings publication format.

Proposed Conference email and WWW site:

http://www.dsi.unifi.it/icsm2001 http://www.dsi.unifi.it/ICSM2001 icsm2001@dsi.unifi.it





Call for Exposition Tools

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- WSE, Workshop on WEBsite evolution

Submit exposition tools proposals via email to icsm2001.tutorial@unisannio.it by 12 February 2001(closed).

Proposed Conference email and WWW site: http://www.dsi.unifi.it/icsm2001 http://www.dsi.unifi.it/ICSM2001 icsm2001@dsi.unifi.it





Call for Dissertation Forum

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The Conference will be held in conjunction with

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- WESS, the seventh Workshop on Empirical Studies of Software Maintenance.
- WSE, Workshop on WEBsite evolution

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 via email to icsm2001@unisannio.it by 15 January 2001. (closed)

An award and a full support to attend the conference will be given to the prize winner. Two other free registration will be assigned at the second and third. 4 pages summary of accepted dissertation will be included in the conference proceedings and a special forum section will be organised at the conference.

Topics of interest include but are not restricted to the following aspects of maintenance and evolution:

- Methods and theories - Processes and strategies

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HOW TO REACH FLORENCE

By Car

From Milan: The Highway Del Sole (A1) connects Florence both with southern and northern Italy. We suggest the exit "Firenze Sud" for those coming from Rome; "Firenze Nord" for those coming from Milan, Bologna, Venice.

By Train

Please consult the on-line timetable for update information on train departures and arrivals.

By Plane

Florence Airport connect principal european capitals to Florence. For International flights please consider the use of Rome, Milan and Pisa International airports. Please consult the <u>online timetable</u> for the flights' arrival and depature from Pisa and Florence.

Proposed Conference email and WWW site: http://www.dsi.unifi.it/icsm2001 http://www.dsi.unifi.it/ICSM2001 icsm2001@dsi.unifi.it







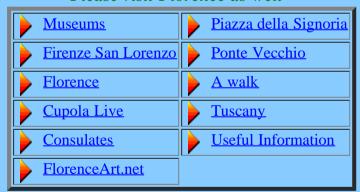
Florence Touristic Information

Florence is a wonderful city placed in the Earth of Tuscany, at about 300 Km far from Rome and Milan and at about 90 Km from the Tirrenian sea. Arno river crosses the whole city.

Tours could be organized with the Agency by BUS or by feet to visit: Boboli Garden, the Dome, Giotto Tower, The Old Bridge, Michelangelo Vista Point, Belvedere, Cappelle Medicee, S. Croce Church, S. Miniato Church, Fiesole Village, S. Gimignano Village, The Chianti Vine Area, the Old Market Area, Siena Village, Museum with the David of Michelangelo, (Accademia Gallery), Uffizi Museum, Medieval Arms Museum, Archeological Museum, and more than 100 churches along the town. etc.

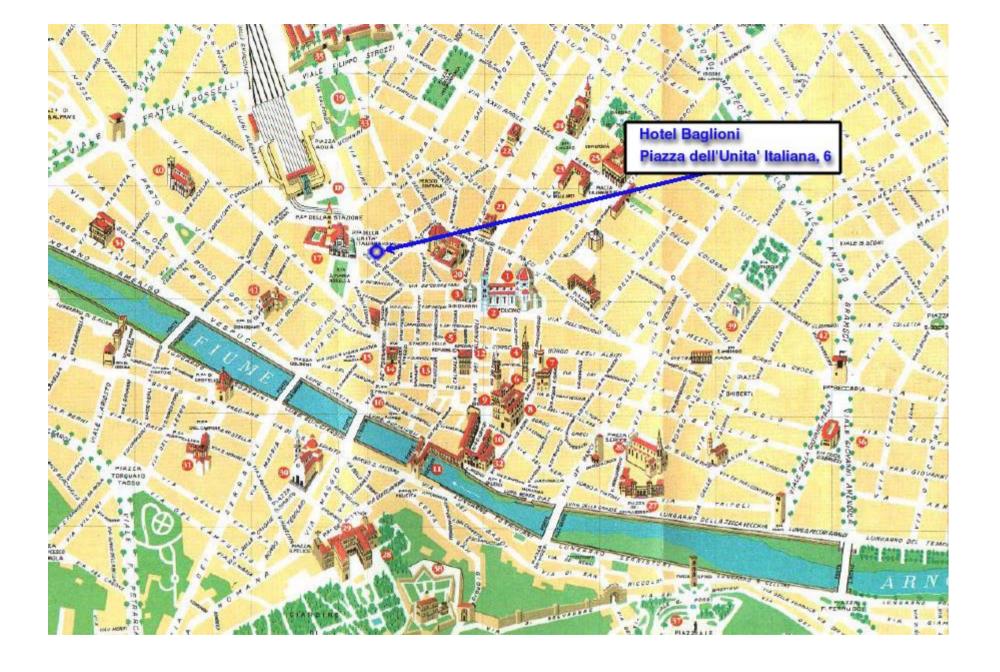
Walking in Florence is an exciting experience. Please Visit WWW pages related to conference location on the conference WWW page. Travel Agency NewTours will be happy to help you in selecting one of the several opportunities offered by the wonderful Florence (Phone +39-55-33611, Fax: +39-55-3361250, +39-55-3361350).

Please visit Florence as well



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IEEE INTERNATIONAL CONFERENCE ON SOFTWARE MAINTENANCE

Gala Dinner, history and some hints.

Portions of this text is courtesy of FlorenceArt.net.

FLORENCE

Inspiration, so essential to artistic work, is something to be nurtured. What better place for this than Florence, the jewel city of the Italian Renaissance? Many people come to Florence to seek inspiration. The beauty of the works of art, the villas and palazzi, the food, the light, the fragrances of Tuscany all combine to make this a unique place. This is not all mere romanticism. Florence really is snugly couched between low and gentle hills upon the River Arno in Tuscany. Generations of artists have painted it from the high ground around and given the impression that it is a small, idyllic settlement clustered around the covered Ponte Vecchio, surveyed by the grand dome and campanile of the Cathedral, and by the castellated tower of the Palazzo Vecchio.

Florence is the resulting marriage between the very old and the very new: it is a bustling metropolis that has managed to preserve its predominantly medieval street plan and predominantly renaissance infrastructure while adapting to the demands of 20th century life. Visitors who wish to live a short period as if they were in the medieval and renaissance age should come to Florence and enjoy its magic ancient atmosphere.

Florence was founded as a colony of the Etruscan city of Fiesole in about 200 BC, later becoming the Roman Florentia, a garrison town controlling the Via Flaminia. In the early 12th century the city became a free comune and by 1138 it was ruled by 12 consuls, assisted by the Council of One Hundred, a bunch of rich merchants. In 1207, due to intractable problems with faction fighting, the council was replaced by a foreign (and thus allegedly unbiased) governer, the podestà.

In the 13th century the pro-papal Guelphs and pro-imperial Ghibellines started a century-long bout of bickering, which wound up with the Guelphs forming their own government in the 1250s. By 1292 Florence had had it with the obstreperous nobles, excluding them from government. The city became increasingly democratised, eventually becoming a commercial republic controlled by the Guelph-heavy merchant class.

In the latter part of the 14th century the Medicis began consolidating power, eventually becoming bankers to the papacy. Cosimo Medicipatron of artists such as Donatello, Brunelleschi, Fra Angelico and Filippo Lippi - became ruler of Florence. Perhaps the most famous Medici was Lorenzo, grandson of Cosimo, who took power in 1469. His court fostered a great flowering of art, music and poetry, and Lorenzo sponsored philosophers and artists such as Botticelli, da Vinci and Michelangelo.

In 1494 the Medicis went broke and lost their hold on power. The city fell under the control of Girolamo Savonarola, a Dominican monk who led a puritanical republic until he fell from public favour and was burned as a heretic in 1498. The Medicis returned to Florence in the 16th century, having united themselves by marriage with Emperor Charles V, and ruled for the next 200 years. In 1737 the Grand Duchy of Tuscany passed to the House of Lorraine, which was incorporated into the Kingdom of Italy in 1860. Florence became capital of the

Kingdom, and remained so until Rome took over in 1875. Florence was badly damaged during WWII by the retreating Germans, who bombed all its bridges except the Ponte Vecchio. Devastating floods ravaged the city in 1966, causing inestimable damage to its building and artworks, some of which are still being restored. However, the salvage operation led to the widespread use of modern restoration techniques which have saved artworks throughout the country. A Mafia-related car-bomb explosion in 1993 near the Uffizi Gallery didn't exactly help these restoration efforts.

Uffizi Gallery

The Gallery of the Uffizi was the first museum ever to be opened to the public: in fact the Grand Duke granted permission to visit it on request from the year 1591. Its four centuries of history make the Uffizi Gallery the oldest museum in the world. The construction of the Uffizi palace began in 1560, when the Duke Cosimo I dei Medici decided to build a special seat for the offices (hence the name "uffizi") of the thirteen magistracies, that is for the administrative center of the Florentine State. Cosimo I commissioned the project of the building to Giorgio Vasari, painter and architect at the Medici court, who realized one of the most famous architectural masterwork of Florentine Mannerism. Stretching from the Signoria Palace to the river Arno the construction posed difficult technical problems since the foundations were quite over the river; Vasari had to include into the building the ancient church of San Pier Scheraggio and the ancient Zecca (near the Orcagna Loggias). When in 1574 Vasari and Cosimo I died, the Uffizi were not yet completed: Francesco I, son of Cosimo I, succeeded his father, Bernardo Buontalenti succeeded Vasari in supervision of construction; in 1581 the building was terminated. Some years before at the first floor the offices of the thirteen magistracies had been installed: everyone of these had a beautiful entrance door in the portico at the ground floor. A man of peculiar intelligence, Francesco I (1541-1587) had a profound interest for science, alchemy and art; in 1581 he decided to give a nearly private arrangement to the second floor of the Uffizi. In the west wing he set laboratories where specialized artisans worked jewels and precious stones, perfumes were distilled, new medecines were experimented; in the east wing he placed ancient sculptures of medicean collection: shortly afterwards in this side of the building Buontalenti started to erect the Tribune. Francesco's successors increased more and more the medicean collection with new acquisitions of paintings, sculptures, precious and rare object in general; they were set not only at the Uffizi but also at Pitti Palace or in other medicean palaces. The continuing growth of the granducal collections in 17th century enriched the Uffizi: new rooms of the second floor were arranged to display masterworks as in a museum. In 1737, with the death of Gian Gastone (born in 1671) the Medici dynasty ended and the family of Lorraine ascended the throne of Tuscany. The last descendant of Medici family, the Palatine Electrix Anna Maria Luisa, sister of Gian Gastone, managed to prevent the artistic patrimony from being scattered with the famous "Family Pact" (1737, and reconfirmed in her will of 1743), which, instead of bequeathing everything to the successors of the House of Hapsburg-Lorraines, left the collections to the city of Florence itself "to be an ornament to the Government, useful to the public and to attract the curiosity of foreigners". This document proved to be vitally important when the time came to retrieve the art works that had been removed and taken to Paris in Napoleonic times. The Lorraine family, from Pietro Leopoldo to Leopoldo II, enriched the whole collection, increasing it with important masterpieces: many paintings and several hundred of drawings were bought, many Florentine pictures were transferred to the Uffizi from Tuscan monastries, after suppression of religious orders during the 19th century. In 1860 at the formation of the Kingdom of Italy the Medici-Lorraine collections became public property to all effects and purposes.

Altered and rearranged several times over the centuries, according to the cultural tastes of the various periods, the exhibition rooms are now composed of over 45 rooms containing about 1.700 paintings, 300 sculptures, 46 tapestries and 14 pieces of furniture and/or ceramics. In actual fact the Uffizi owns about 4.800 works, the remainder of which are either in storage or on loan to other museums.

In 1989 the State Archive that occupied the first floor of the Uffizi, has been transferred in the new seat of Piazza Beccaria: the first floor

will be indeed arranged to double the Gallery's area, as planned in the Nuovi Uffizi project. The first six rooms of this floor have been recently restored; all the other rooms soon will be added to them, to make way to the exhibition of many masterworks now conserved in the warehouses and realize new arrangements for all needs of a museum of such importance.

Vasari Corridor

The Corridor was built in 1564 by Giorgio Vasari in only five months at the time of the wedding between Francesco I de' Medici and Giovanna of Austria; it served to link up the Pitti Palace, where the Grand Duke resided, with the Uffizi (or offices) where he worked. It is a covered walk, almost a kilometre in length, an overhead passageway that starts out from the West Corridor of the Gallery, heads towards the Arno and then, raised up by huge arches, follows the river as far as the Ponte Vecchio, which it crosses by passing on top of the shops. The meat market on the bridge was at this time transferred elsewhere, so as not to offend the Grand Duke's sensitive nose with unpleasant smells on his walk, and replaced (from 1593) with the goldsmiths who continue to work there today. On the other side of the Arno, the corridor passes through the interior of the church of Santa Felicita, over the tops of the houses and the gardens of the Guicciardini family until it finally reaches the Boboli gardens (one of the exits stands beside Buontalenti's Grotto) and the apartments in the Pitti Palace.

Vasari thus created a monumental urban "footpath" that took the absolute power of the ruler right into the historic heart of the city. In fact, a second corridor above Via della Ninna links the other side of the palace of the Uffizi with Palazzo Vecchio, the seat of Florentine government since the 13th century.

The Corridor was restored in 1973 and again after the bomb explosion in the near Via dei Georgofili in 1993. Reopened to the public it can only be visited by appointment or to groups (the entrance is between rooms 25 and 34). Apart from the fact that the visitor can enjoy some magnificent and little-known views over the city from its round windows, the passageway contains over 700 paintings, all dating from the 17th and 18th centuries, as well as the important collection of Self-portraits by some of the most famous masters of painting of the 16th to the 20th century. This collection, unique in the world, was created by Cardinal Leopoldo de' Medici in the mid 17th century, a golden century for collections, and receives regular additions to this day. It displays self-portraits by Andrea del Sarto, Beccafumi, Bernini, Annibale Carracci, Guido Reni, Salvator Rosa, Rubens, Canova, Hayez, Corot, Ingres, Delacroix, Ensor and many others.

Pitti Palace

The sloping frontage that forms the Piazza de' Pitti is closed on three sides by the circling wings of the Palace, which the Florentines have always been reluctant to call the Royal Palace because of their innate tendency for understatement, in spite of the fact that the building has hosted all the ruling dynasties (the Medicis, the Lorraines, the Bourbons, the Bonapartes, the Savoys) ever since Cosimo I's wife, the beautiful and rich Duchess Eleonora of Toledo, bought it from Buonaccorso Pitti in 1550 to turn it into the new home of the Medici family. The merchant Luca Pitti, first the friend and later the rival of Cosimo "the Elder", commissioned Filippo Brunelleschi to carry out the design of the building in around 1440. Cosimo "the Elder" had meanwhile commissioned Michelozzo carry out Palazzo Medici in Via Larga, turning down an earlier project by Brunelleschi, which he thought was too obstentious and likely to arouse the jealousy of his fellow citizens. This thought apparently did not worry Pitti at all, and he decided to employ the most brilliant architect of the times, whom he apparently, or so the legend goes, ordered to make the windows as big as the doors of the Medici residence and create an internal courtyard that was large enough to contain the whole of the palace in Via Larga.

Brunelleschi's structure reflects his idea of a what a Renaissance palace should look like: a cube equal in both height and depth, and covered with the typical Florentine "rustic stone-work" (faceted stones), quarried directly from the Boboli hill itself. The palace was built on three floors, with three entrance doors on the ground floor and seven windows on each side of the two upper floors. A balcony crossed the entire facade, linking up the windows, while a loggia was built beneath the roof to give it a finishing touch.

We can see what the palace looked like after the first stage in its construction in the well known map of Florence known as "the Catena", carried out in 1470. When Eleonora of Toledo bought the estate in 1550, construction work on the monument was intensified and can be divided into two historical stages: the Pitti Palace and the Medici family (until 1737) and the Pitti Palace after the Medici family.

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Dear Colleague

I would like to invite you at the IEEE International Conference on Software Maintenance, 2001, and associated workshops: SCAM, WESS, WSE, etc. next November 2001 in Florence, Italy.

Outstanding Keynotes such as: Prof. David Lorge Parnas and Prof. Dieter Rombach. Industrial papers and experiences, reseach papers and award, tutorials, tool expositions, dissertation forum and award, workshops, panels, and other exciting activities have been planned.

I hope that this CFPs could be useful for your work. Please forward the following to anybody who you think may be interested. Apologies if you have already seen this.

If you would like to be removed from our list please send an email to icsm2001@dsi.unifi.it with REMOVE in the subject.

ICSM2001

Technical Committee

CALL---FOR---PAPER\$

IEEE International Conference on Software Maintenance 2001 FLORENCE, ITALY, 6-10 November 2001 http://www.dsi.unifi.it/icsm2001

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

Sponsored by IEEE

Supported bt the: EC-IST, University of Florence, O-Group

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 organizations 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

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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 aginglegacy 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 Conference will be held in conjunction with:

WESS -- the seventh Workshop on Empirical Studies of Software Maintenance.

SCAM -- Source Code Analysis and Manipulation

WSE -- Workshop on WEBsite Evolution

Other workshops are welcome according to the limited available slots.

Topics of interest include but are not restricted to the following aspects of maintenance and evolution:

- Methods and theories - Processes and strategies

- Organizational frameworks - Life cycle and process control

Design for maintenance
 Internet and distributed systems
 Multimedia systems

- User interface evolution - Commercial off-the-shelf (COTS)

- Third party maintenance - Freeware and open source applications

- Program comprehension -Software and system visualization

Knowledge based systems
 Impact of new software practices
 -Empirical studies

- Software reusability - Programming languages

- Source code analysis and manipulation - Testing and regression testing

- Models and methods for error prediction Measurement of software
- Maintenance and/or productivity metrics
- -Preventive maintenance
- Personnel aspects of maintenance Reengineering and reverse engineering
- Version and configuration management -Legal aspects and standards
- Management and organization -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. A prize of the Journal of Software Maintenance will be assigned at the Best submitted Paper.

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.

EXPOSITION AREA

An exposition are is present in which tools realted to industrial applications can be shown. Please contact: nesi@dsi.unifi.it

1 page summary of accepted tools will be included in the conference proceedings.

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.

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.

1 page summary of accepted tutorial will be included in the conference proceedings.

IMPORTANT DATES, DEADLINES

Research Paper submission 15 January 2001, notification of acceptance 1 June 2001 Dissertation submission 15 January 2001 Industrial Application submission 12 March 2001 Tools request and submission 12 March 2001 Tutorial submission 12 February 2001

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ICSM-2001, Florence, Italy, 6-10 November 2001, http://www.dsi.unifi.it/icsm2001

IEEE International Conference on Software Maintenance 2001

Call for Papers

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



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- WESS, seventh Workshop on Empirical Studies of Software Maintenance, http://serg.ing.unisannio.it/~wess2001
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- Management and organisation

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Tutorial submission 12 February 2001



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Fire Brigade - Tel: 115

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Police Headquarter and Stolen Car Service - Tel: +39 (0)55 49771 A.C.I - (Automobile Club Firenze) - Tel: +39 (0)55 61801 Fax: 611231

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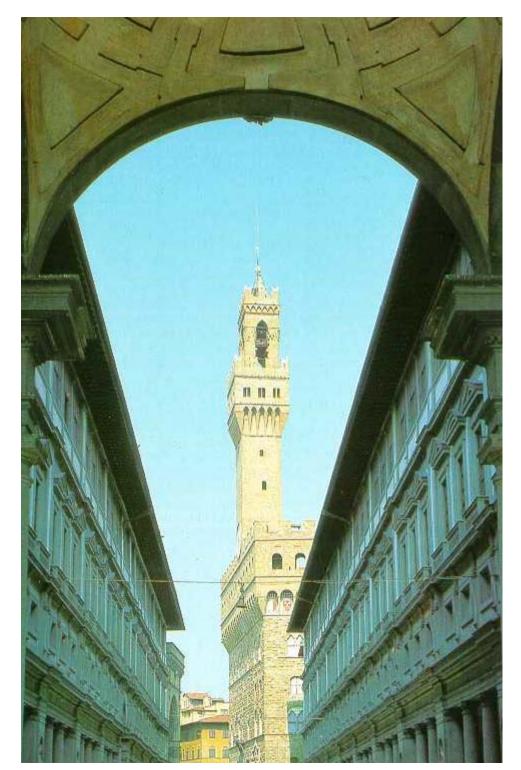
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