CALL FOR PARTICIPATION  
ESEC/ FSE 97
Sixth European Software Engineering Conference
together with
Fifth ACM SIGSOFT FT Symposium on the Foundations of Software Engineering
Zurich, Switzerland  
September 22-25, 1997
http://www.ifi.unizh.ch/congress/esec97.html

The Sixth European Software Engineering Conference will be held jointly with the Fifth ACM SIGSOFT Symposium on the Foundations of Software Engineering. The combined conference will bring together professionals from academia, business, and industry to share information, evaluate results, and explore new ideas on software engineering models, languages, methods, tools, processes, and practices. It will also include sessions for demonstration of prototypes and research tools and a poster session. There will be invited talks by David Parnas, Tom Maibaum, John Rushby, and Barry Boehm. The conference will be surrounded by two full-day tutorials, twelve half-day tutorials, and three workshops. Join us and help evaluate old ideas and generate new ones.

Sponsored by
ACM SIGSOFT
CEPS (Council of European Professional Informatics Societies)
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Technical Program
Tuesday, September 23

Opening Session
Keynote address: Software Engineering: An Unconsummated Marriage
David L. Parnas (McMaster University, Canada)

Session 1A. Software Architecture
A Framework for Classifying and Comparing Architecture Description Languages
Nenad Medvidovic, Richard N. Taylor (USA)
Applying Static Analysis to Software Architectures
Gleb Naumovich, George S. Avrunin, Lori A. Clarke, Leon J. Osterweil (USA)
Making Design Patterns Explicit in FACE - A Framework Adaptive Composition Environment
Theo D. Migler, Serge Demeyer (Switzerland), Robert Engel (USA)

Session 1B. Processes
TTM15 - A Large Multi-Site Improvement Project
Graham Allen, Leighton Davies, Göran Lindmark, Even-André Karlson (Sweden)
Change Management Needs Integrated Process and Configuration Management
Gregor Joors (Germany)
The Design of a Next-Generation Process Language
Shinley M. Sitton, Jr., Leon J. Osterweil (USA)

Session 1C. Demonstrations 1
Demonstrations of tools and system prototypes
Session 2A. Experience 1
Presentation of Industrial Experience Reports
Session 2B. New Ideas
Novel Notions, Wild Ideas, and Fun Flames
Session 2C. Posters
Poster authors are present at their posters

Wednesday, September 24

Session 3. Software Engineering Education (Invited Talks)
What We Teach Software Engineers in the University
Tom Maibaum (Imperial College, United Kingdom)
What We Expect from Software Engineers in Industry
Speaker to be announced

Session 4A. Configuration Management and Process Tools
Software Release Management
André van der Hoek, Richard S. Hall, Dennis Heimbigger, Alexander L. Wölf (USA)
A Contextual Approach for Process-Integrated Tools
Klaus Pohl, Klaus Wiedenhaupt (Germany)
Generic Fuzzy Reasoning Nets as a Basis for Reverse Engineering Relational Database Applications
Jens Jahns, Wilhelm Schäfer, Albert Zündorf (Germany)

Session 4B. Formal Analysis
Providing Automated Support to Deductive Analysis of Time Critical Systems
Andrea Albarghetti, Angelo Gargantini, Angelo Mozzi (Italy)
Verification of Liveness Properties Using Compositional Reachability Analysis
Shing Chi Cheung (Hong Kong), Dimitra Giannakopoulou, Jeff Kramer (UK)
Model Checking Graphical User Interfaces Using Abstractions
Matthew B. Dwyer, Viki Carr, Laura Hines (USA)

Session 4C. Empirical Studies
Comparing and Combining Software Defect Detection Techniques: A Replicated Empirical Study
Murray Wood, Marc Roper, Andrew Brooks, James Miller (UK)
Experiences with Criticality Predictions in Software Development
Christof Ebert (Belgium)
Session 5A. System Modeling
Integration of Sequential Scenarios
Jules Desharnais, Ritha Kiehr, Marc Frappier, Ali Mili (Canada)
A View-Oriented Approach to System Modelling Using Graph Transformations
Hartmut Ehrig, Reiko Heckel, Gabi Taentzer, Gregor Engels (Germany)
A Design Framework for Internet-Scale Event Observation and Notification
David S. Rosenblum, Alexander L. Wolf (US)

Session 5B. Testing
Refining Data Flow Information through Infeasible Path Detection and Tracing
Rastislav Bodik, Rajiv Gupta, Mary Lou Soffa (US)
Feasible Test Path Selection by Principal Slicing
Estan Forgacs (Hungary), Antonia Bertoldino (Italy)
Cryptographic Verification of Test Coverage Claims
Prem Devanbu, Stuart G. Bubblehine (US)

Session 5C. State-of-the-Art--Report
Security Issues in Distributed Software
Richard Kemmerer (US)

Session 6. Panel
Software Engineering – Old Problems, New Problems, and Unsolved Problems
Barry Boehm, Tom Gilb, David Parnas, Tom Maibaum, John Rushby, and others

Thursday, September 25
Session 7. Invited Talk
Subtypes for specifications
John Rushby (SRI International, US)

Session 8A. Program Analysis
AC++ Data Model Supporting Reachability Analysis and Dead Code Detection
Yih-Farn Chen, Emden R. Gansner, Eleftherios Koutsofios (US)
The Use of Program Profiling for Software Maintenance with Applications to the Year 2000 Problem
Thomas Reps, Thomas Ball, Manuvir Das, James Larus (US)
General Slicing of Hierarchical State Machines
Mats P.E. Heimdahl (US)

Session 8B. Modularity
A Pattern-Based Application Generator for Building Simulation
Martin Schütze, Jan Peter Piegel, Gerhard Zimmermann (Germany)
Executable Connectors Towards Reusable Design Elements
Stéphane Ducasse, Tamar Richner (Switzerland)
Expressing Code Mobility in Mobile UNITY
Gian Pietro Picco (Italy), Gruia-Catalin Roman, Peter J. McCann (US)

Session 8C. Demonstrations 2
Demonstrations of tools and system prototypes

Session 9. Invited Talk
Developing Multimedia Applications with the Win-Win Spiral Model
Barry W. Boehm (University of Southern California, Los Angeles, US), recipient of the 1997 SIGSOFT Outstanding Research Award

Closing Session, End of Conference

Pre-Conference Tutorials
Monday, September 22
F1 Inspecting Critical Software (Full Day)
David L. Parnas, McMaster University, Canada
H1 Software and Business Process Technology (Morning)
Wolfram Grunth, University of Dortmund, Germany and Wilhelm Schäfer, University of Paderborn, Germany
H2 Reverse Engineering Strategies for Software Migration (Morning)
Haus A. Miller, University of Victoria, Canada
H3 A Primer on Empirical Studies (Morning)
Dewayne E. Perry, Bell Laboratories, USA, Adam A. Porter, University of Maryland, USA, and Larry G. Votta, Bell Laboratories, USA

Post-Conference Tutorials
Friday, September 26
F2 Requirements-Driven Management: A Planning Language for Software Engineering (Full Day)
Tom Gilb, Consultant, Norway
H7 Modelling and Analysis of Software Architecture (Morning)
David Garlan and Robert Allen, Carnegie-Mellon University, USA
H8 Rigorous Requirements for High Assurance Systems – Evolution and Application of the SCR Method (Morning)
Shari Faulk, University of Oregon, USA and Connie Heitmeyer, Naval Research Laboratory, USA
H12 Distributed Software Architectures (Morning)
Jeff Kramer and Jeff Meger, Imperial College, London, UK
H9 Requirements Traceability (Afternoon)
Anthony Finkelstein, City University, London, UK
H10 An Introduction to OMG/CORBA (Afternoon)
Wolfgang Emmerich, City University, London, UK
H11 Industrial Object Engineering (Afternoon)
Jurgen Ziegler, Nokia Research Center, Finland

Workshops
Friday, September 26 (Full Day)
W1 Workshop on Mobility and Network Aware Computing
W2 Workshop on Foundations of Component-Based Systems
W3 Workshop on Object-Oriented Reengineering
For details, see http://www.ifi.unizh.ch/congress/esec97/workshops.html

Conference Location
The conference takes place at the University of Zurich, Switzerland. Zurich is an international city with plenty of cultural and sightseeing opportunities. The climate in Zurich is usually pleasant in September (15-20 °C / 60-70 °F).

Traveling to Zurich
Zurich’s international airport is a major hub in central Europe with non-stop flights from all over the world. The airport is situated just 11 km from the city center and is connected to the swiss railway network. Swissair has been appointed official carrier for this conference. For special arrangements, please contact your nearest Swissair office. Please quote ESEC/FSE 97 and the code SR IDS G CGRF when booking. In the USA, please contact Conferences International Inc., Phone (800) 221-8747, Fax (617) 266-5886. In the UK, please contact Karen Hammond at Karin Rommel Travel Plc., Phone (171) 499 7611, Fax (171) 493 0326. Zurich is also easily reached by train. There are direct trains from many major European cities, including Frankfurt, Berlin, Paris, Brussels, Milan, and Vienna.
Conference Agent

The agency MCI Travel in Zurich, a professional congress and tour organizer, has been appointed by the Conference Chairs to handle registration, hotel reservation, payment, and excursions. If you have any special wishes or requirements concerning accommodation or excursions, please contact MCI Travel.

MCI Travel
Weinbergstrasse 11 Phone +41 1 252 50 30
CH-8001 Zurich Fax +41 1 251 31 49
Switzerland

Registration Fees

Prices in Swiss Francs (CHF) until Aug. 15 after Aug. 15

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<th>Regular</th>
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Additional proceedings can be bought at the registration desk at a special discount rate.

* The member rates are applicable for members of ACM, ACM SIGSOFT and of all CEPIS societies (AFCET, AICA, BCS, DD, DF, DND, FESS, FIPA, GCS, GI, ICS, ITG im VDE, NCI, NJkS, OCG, PIPS, SL-VRI) Authors of accepted papers, tutorial speakers and program committee members are also eligible for member rates.

** The student rate does not include transportation ticket and Swiss evening / conference dinner.

Terms and Conditions of Registration

Your registration will become effective only after receipt of your payment. Included in the conference fees are the reception, coffee/tea, the Swiss evening / conference dinner, a ticket for the Zurich public transport system (city region including airport) which is valid from Sept. 21 to Sept. 26, and the conference proceedings.

Included in the tutorial fee are the tutorial notes and coffee/tea. The organizers retain the right to cancel tutorials when there are less than seven participants.

The workshop fee includes coffee/tea and lunch. As the workshops are organized independently, the Conference Organization Committee takes no further responsibility for the workshops.

In order to claim the student discount, students must include a proof of full-time student status with their registration. The registration fee for students does not include the transportation ticket and the Swiss evening / conference dinner.

Participants claiming the member discount should be able to produce a proof of membership when registering at the conference site.

Additional tickets for public transport, the reception and the Swiss evening / conference dinner can be ordered together with the registration or can be bought at the registration desk.

Cancellations must be made in written to MCI Travel, Zurich. For cancellations up to August 15, 1997 the total amount will be refunded except a processing charge of CHF 100. Thereafter, the full amount paid will be forfeited. Substitutions may be made any time up to the beginning of the conference.

We have done our best in preparing ESEC/FSE 97. However, neither the ESEC/FSE 97 chairs nor the ESEC Steering Committee nor MCI Travel can take any responsibility for any damage, loss or inconvenience participants might incur in connection with the conference. We also cannot be held responsible for the correctness or appropriateness of the contents of talks and papers included in this conference. In particular, changes to the published conference program or cancellations of parts thereof do not entitle to a refund of the conference fee or parts thereof.

Names and addresses of participants will be electronically processed and will be included in a list of participants that will be distributed/posted during and in connection with the conference.

Questions?

Send mail to esec97@ifi.unizh.ch or fax to +41-1-363 00 35, Subj.: ESEC/FSE 97

Sightseeing and Excursions

Prices in Swiss Francs (CHF) per person

Lake Zurich (CHF 18, Tuesday, Sept 23, 1997)
Evening round trip on Lake Zurich with special 'Fondue boat'. 20:00-22.15. Meals and beverage not included.

Zurich city tour (CHF 29, daily available)
Sightseeing tour by coach, 2 hours, afternoon.

Lucerne (CHF 45, daily available)
Trip to Lucerne. Half day, 12:30-19:15, 4 hours stay in Lucerne.

Swiss Alps (CHF 77, daily available)
Trip to the Bernese Oberland: Interlaken, Grindelwald, Brienz. Full day, 7:30-21:00.

Top of Europe (CHF 195, daily available)
Visit of the Jungfraujoch (3454 m / 11333 ft., highest railway station of Europe). Stops in Interlaken and Brienz. Full day, 7:30-20:30.

For other excursions, please contact MCI Travel.
ESEC/FSE 97 Registration Form

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- Sex:  - M  - F

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Affiliation ____________________________

Street ________________________________________
Zip ____________ City _______________________
Country _______________________________________
Phone _______________________________________
Fax _______________________________________
Email _______________________________________

- I am a member of Society ____________________ Member No. ______________
- I am a student (include confirmation of full-time student status)
- I am an author of a paper / tutorial speaker / PC member

Registration

- Conference CHF ____________

Tutorials

- F1  - F2
- H1  - H2  - H3  - H4
- H5  - H6  - H7  - H8
- H9  - H10 - H11 - H12 CHF ____________

Workshops

- W1  - W2  - W3 CHF ____________
- Additional reception tickets CHF ____________
- Additional Swiss evening / dinner tickets CHF ____________
- Additional public transport tickets CHF ____________

Hotel Reservation (Prices in Swiss Francs)

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- Student accommodation (upon request)

Date of arrival: ____________________________
Date of departure: ____________________________ Number of nights: ____________

Accommodation deposit: CHF 150 per room CHF ____________
Special requests ____________________________

Excursions

- Please indicate number of tickets, date and total amount.
  - ‘Lake Zurich’ Sept. 23, 1997 CHF ____________
  - ‘Zurich city tour’ CHF ____________
  - ‘Lucerne’ CHF ____________
  - ‘Swiss Alps’ CHF ____________
  - ‘Top of Europe’ CHF ____________

Total payment CHF ____________

I agree to the terms and conditions mentioned overleaf.

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  MCI Travel- Zurich / ESEC/FSE 97
  Account No. 644108.03 Z

- Eurochecks attached (up to CHF 300 per check)

- Credit card:  - Eurocard/Mastercard  - VISA
  - American Express

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  Expiration date ____________
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Date, Signature: ____________________________