



FORGING NEW LINKS

**The 20th International Conference on
Software Engineering
April 19-25, 1998
Kyoto International Conference Hall,
Kyoto, JAPAN**

ICSE 98
in



Advance Program



ICSE 98

FORGING NEW LINKS

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ICSE's twentieth birthday affords an opportunity to reflect on profound changes of the past two decades. Since ICSE's founding, politics and technology have converged to shatter once formidable barriers to international cooperation.

The collapse of the Berlin Wall symbolizes the end of the Cold War, and links in a Web page are a metaphor for our enhanced capacity for global information exchange. In this spirit, we have worked hard to ensure that ICSE98 will see an unprecedented increase in the level of international participation and provide an opportunity to highlight the interests and accomplishments of members from the Asian-Pacific region.

Yet our outreach must extend beyond geography. As we continue to build bridges to other software disciplines, researchers and practitioners in allied fields will benefit from an understanding of the contributions that software engineering can make to their work. In turn, we must address their problems in our research.

New collaborations between academia and industry will also enrich ICSE98 and our profession as a whole. The presentation of top-notch papers will, of course, constitute the core activity of ICSE98. Cutting edge research will be showcased in technical paper sessions, workshops, panels, posters, demonstrations, and special sessions devoted to the lessons learned from building large and complex software systems.

We hope you will take advantage of this unique opportunity to meet new colleagues, exchange ideas, and explore the nearly limitless possibilities that lie ahead. Join us in Kyoto for ICSE98 and share the excitement that comes from forging new links.

Koji Torii, ICSE98 General Chair

Kokichi Futatsugi and Richard Kemmerer, ICSE98 Program Cochair

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Corporate Sponsors



Nippon Telegraph and Telephone Corporation



Nihon Keizai Shimbun, Inc.

Keynote Presentations

Java and Its Impact to Software Engineering by **James Goslin** (Wednesday, 22 April 1998)

XXXXXXX by XXXXXXXXX (Thursday, 23 April 1998)

XXXXXXX by XXXXXXXXXX (Friday, 24 April 1998)

Tutorials





ICSE 98

FORGING NEW LINKS

ICSE98 SCHEDULE At-a-Glance

Sunday, 19 April 1998

Workshops & Symposia

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Monday, 20 April 1998

Workshops & Symposia

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Tutorials - Full-Day

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Tutorials - Morning

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Tutorials - Afternoon

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Tuesday, 21 April 1998

Workshops & Symposia

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Tutorials - Full-Day

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Tutorials - Morning

????????????????????

Tutorials - Afternoon

????????????????????

Asia Pacific Symposium

Doctoral Symposium

ICSE98 Expo

Wednesday, 22 April 1998

Opening Session and Keynote Addresses by Who???

Technical Papers Sessions

Lessons & Status Report Sessions

Panels

Posters and Research Demonstration Sessions

ICSE98 Expo

Reception

Thursday, 23 April 1998

Keynote Address by who???

Technical Papers Sessions

Lessons & Status Report Sessions

Plenary Award Session

Panels

Posters and Research Demonstration Sessions

ICSE98 Expo

Banquet

Friday, 24 April 1998

Keynote Address by who???

Technical Session

Lessons & Status Report Sessions

Panel

Posters and Research Demonstration Sessions

Closing Remarks

Workshops & Symposia

Saturday, 25 April 1998

Workshops & Symposia

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Technical Program

Lessons and Status Reports, Mini-Tutorial, Invited Talks, and Demonstration Sessions will be announced in the final program or WEB site <http://icse98.aist-nara.ac.jp/>

APRIL 22 (WEDNESDAY), 1998

MORNING

W1: Plenary Session

- Opening Remarks
- Keynote Presentation, Kumagai (Japan)

AFTERNOON

W2-1: Experiences with Software Process Improvement

- *Agile Software Process and Its Experience*, Mikio Aoyama (Nigata Institute of Tech., Japan)
- *Software Process Modeling and Enactment: An Experience Report Related to Problem Tracking in an Industrial Project*, Volker Gruhn (U. of Dortmund, Germany), Juri Urbainczyk (Open Software Associates, Germany)
- *Toward Computational Support for Software Process Improvement Activities*, Yasunari Takagi (OMRON Corp., Japan), Kumiyo Nakakoji (Nara Institute of Science and Tech., Japan), Naoki Niihara, Keishi Sakamoto (OMRON Corp., Japan)

W2-2: Formal Modeling

- *Modeling and Analysis of a Virtual Reality System with Time Petri Nets*, Rajesh Mascarenhas (Sybase Inc., USA), Dinkar Karumuri (Oracle Consulting, USA), Ugo Buy (U. of Illinois, USA), Robert Kenyon (U. of Illinois, USA)
- *Specification and Verification of an Object Request Broker*, Gregory Duval (EPFL, Switzerland)
- *Integrating Obstacles in Goal-Driven Requirements Engineering*, Axel van Lamsweerde, Emmanuel Letier (U. Catholique de Louvain, Belgium)

W2-3: Panel

Evolving Software, Dewayne Perry (Bell Lab., USA), Takuya Katayama (Japan Advanced Institute of Science and Tech.), et. al.

W3-1: Reverse Engineering

- *Conceptual Module Querying for Software Reengineering*, Elisa Baniassad, Gail Murphy (U. of British Columbia, Canada)
- *Reuse-Driven Interprocedural Slicing*, Mary Jean Harrold, Ning Ci (Ohio State U., USA)
- *Extracting Concepts from File Names: A New File Clustering Criterion*, Nicolas Anquetil, Timothy Lethbridge (U. of Ottawa, Canada)

W3-2: Formal Methods and Object Orientation

- *Blending Object-Z and Timed CSP: An Introduction to TCOZ*, Brendan Mahony (Dept. of Defence, Australia), Jin Song Dong (CSIRO, Australia)
- *Three Dimensional Software Modeling*, Joseph Gil (Israel Institute of Tech., Israel), Stuart Kent (U. of Brighton, UK)
- *Formalizing Design Patterns*, Tommi Mikkonen (Tampere U. of Tech., Finland)

W3-3: Panel

Computing and Communication in the Age of Mobility, Grui-Catalin Roman (Washington U. in Saint Louis, USA), et. al.

APRIL 23 (THURSDAY) 1998

MORNING

T1: Plenary Session

Keynote Presentation, James Gosling (SUN, USA)

T2-1: Internet/Mobil Code/Security

- *Techniques for Trusted Software Engineering*, Premkumar Devanbu (AT&T Lab., USA), Philip Fong (Simon Fraser U., Canada), Stuart Stubblebine (AT&T Lab., USA)
- *An Approach to Large-Scale Collection of Application Usage Data over the Internet*, David Hilbert, David Redmiles (U. of California Irvine, USA)
- *Evaluating the Tradeoffs of Mobile Code Design Paradigms in Network Management Applications*, Mario Baldi, Gian Pietro Picco (Politecnico di Torino, Italy)

T2-2: Software Evolution

- *The Use of Goals to Surface Requirements for Evolving Systems*, Annie Anton (U. of South Florida, USA), Colin Potts (Georgia Institute of Tech., USA)
- *Promises: Limited Specifications for Analysis and Manipulation*, Edwin Chan, John Boyland, William Scherlis (Carnegie Mellon U., USA)
- *Architecture-Based Runtime Software Evolution*, Peyman Oreizy, Nenad Medvidovic, Richard Taylor (U. of California Irvine, USA)

T2-3: Panel

Methodology, Motoshi Saeki (Tokyo Inst. of Tech., Japan), et. al.

AFTERNOON

T3-1: Testing

- *An Empirical Study of Regression Test Selection Techniques*, Todd Graves (Bell Lab., USA), Mary Jean Harrold (Ohio State U., USA), Jung-Min Kim, Adam Porter (U. of Maryland, USA), Gregg Rothermel (Oregon State U., USA)
- *What You See Is What You Test: A Methodology for Testing Form-Based Visual Programs*, Gregg Rothermel, Lixin Li, Christopher DuPuis, Margaret Burnett (Oregon State U., USA)

T3-2: Novel Approaches to Design and Validation

- *Integrating Architecture Description Languages with a Standard Design Method*, Jason Robbins, Nenad Medvidovic, David Redmiles, David Rosenblum (U. of California Irvine, USA)
- *Assisting the Automated Validation Process of User Interfaces Systems*, Bruno d'Ausbourg, Christel Seguin, Guy Durrieu, Pierre Roche (ONERA-CERT, France)

T3-3: Managing Objects

- *Consistency Management for Complex Applications*, Peri Tarr (IBM, USA), Lori Clarke (U. of Massachusetts, USA)
- *Reifying Configuration Management for Object-Oriented Software*, J-M Jezequel (Irisa/CNRS, France)

T4: Plenary Session

Most Influential Paper from ICSE-10

T5-1: Large Scale and Complex System Development

- *Parallel Changes in Large Scale Software Development: An Observational Case Study*, Dewayne Perry, Harvey Siy, Lawrence Votta (Bell Lab., USA)
- *Exploiting an Event-Based Infrastructure to Develop Complex Distributed Systems*, G. Cugola, E. Di Nitto, A. Fuggetta (Politecnico di Milano, Italy)
- *Conceptual Simplicity Meets Organizational Complexity: Case Study of a Corporate Metrics Program*, James Herbsleb, Rebecca Grinter (Bell Lab., USA)

T5-2: Computer Supported Cooperative Work

- *An Adaptable Generation Approach to Agenda Management*, Eric McCall, Lori Clarke, Leon Osterweil, (U. of Massachusetts, USA)
- *Measuring Cognitive Activities in Software Engineering*, Pierre Robillard, Patrick d'Astous (Ecole Polytechnique de Montreal, Canada), Francoise Detienne, Willemien Visser (INRIA, France)

T5-3: Panel

Componentware, Mikio Aoyama (Nigata Inst. of Tech., Japan), et. al.

APRIL 24 (FRIDAY) 1998

MORNING

F1: Plenary Session

Keynote Presentation

F2-1: Object-Oriented Technology

- *Design Components: Towards Software Composition at the Design Level*, Rudolf Keller, Reinhard Schauer (U. de Montreal, Canada)
- *Non-Intrusive Object Introspection in C++: Architecture and Application*, Tyng-Ruey Chuang, Y. S. Kuo, Chien-Min Wang (Academia Sinca, Taiwan)
- *Object Oriented Reuse: Experience in Developing a Framework for Speech Recognition Applications*, Savitha Srinivasan, John Vergo (IBM, USA)

F2-2: Project Estimation and Simulation

- *Evaluation of Subjective Effort Estimation Techniques*, Martin Hoest, Claes Wohlin (Lund U., Sweden)
- *Using Simulation to Build Inspection Efficiency Benchmarks for Development Projects*, Lionel Briand, Khaled El Emam, Oliver Laitenberger (Fraunhofer IESE, Germany), Thomas Fussbroich (U. of Kaiserslautern, Germany)
- *A Learning Curve Based Simulation Model for Software Development*, Noriko Hanakawa, Syuji Morisaki, Ken-ichi Matsumoto (Nara Institute of Science and Tech., Japan)

F2-3: Panel

Formal Methods

AFTERNOON

F3-1: Project and Workflow Management

- *The Ramp-Up Problem in Software Projects: A Case Study of How Software Immigrants Naturalize*, Susan Sim (U. of Toronto, Canada), Richard Holt (U. of Waterloo, Canada)
- *Overcoming the NAH Syndrome for Inspection Deployment*, Pankaj Jalote, S. Haragopal (Infosys Technologies Ltd., India)
- *Workflow Management Based on Process Model Repositories*, Volker Gruhn (U. of Dortmund, Germany), Monika Schneider (o.tel.o service GmbH, Germany)

F3-2: Estimation Technologies

- *A Hybrid Method for Software Cost Estimation and Risk Assessment*, Lionel Briand, Khaled El Emam, Frank Bomarius (Fraunhofer IESE, Germany)
- *Defect Content Estimations from Review Data*, Claes Wohlin, Per Runeson (Lund U., Sweden)
- *Analyzing Effects of Cost Estimation Accuracy on Quality and Productivity*, Osamu Mizuno, Tohru Kikuno (Osaka U., Japan), Katsumi Inagaki, Yasunari Takagi, Keishi Sakamoto (OMRON Corp., Japan)

F3-3: Software Architecture, Salasin (DOD, USA)

F4: Plenary Session

- Closing Panel
- Closing Remarks





Joint Workshops

Call for Participation to Symposia and Workshops in conjunction with ICSE 98

ICSE 98 Workshop Co-chair: Mikio Aoyama (NIIT), Frances Paulish (Siemens) and Dewayne Perry (Bell Labs.)

ICSE 98 extend its interests into the following symposiums and workshops in various really cool topics. For further information, please contact to person indicated, workshop committee chairs or <http://icse98.aist-nara.ac.jp>, or Mikio Aoyama (mikio@iee.niit.ac.jp).

IWSSD-9 (9th Int'l Workshop on Software Specification and Design)

PC Co-chairs: A. Finkelstein (Imperial College, U. K.) and U. Buy (U. Illinois at Chicago, U. S. A.)

Date: April 16-18, 1998

Place: Ise-shima Royal Hotel (This workshop only)

Submission Due: Nov. 14, 1997

Contact: M. Saeki (TIT, Japan)

E-mail saeki@cs.titech.ac.jp

<http://salab-www.cs.titech.ac.jp/iwssd9.html>

ISORC '98 (Int'l Symposium on Object-oriented Real-time distributed Computing)

Symposium Co-chairs: K. Kim (U.C. Irvine, U. S. A.), K. Mori (TIT, Japan) and E. Nett (GMD, Germany)

Date: April 20-22, 1998

Contact: K. Kim (U.C. Irvine, U. S. A.)

E-mail: kane@ece.uci.edu

<http://dream.eng.uci.edu/isorc/>

Topics:

Registration Fee:

PDSE'98 (Software Engineering on Parallel and Distributed systems)

PC Co-chairs: B. Kraemer (Fern Universitaet Hagen, Germany) and N. Uchihira (Toshiba, Japan)

Date: April 20-21, 1998

Submission Due: Dec. 12, 1997 (Full Paper)

Contact: N. Uchihira,

E-mail: uchi@ssel.toshiba.co.jp

<http://www.dcs.shef.ac.uk/~prc/PDSE98/> or

<http://www.ec.kyushu-u.ac.jp/~zengo/PDSE98/>

Topics: PDSE98 provides a forum for exchange of information and publication of the latest technological and theoretical advances in software engineering for parallel and distributed systems. Topics include development methodologies, software architectures, languages (eg Java), software reuse, testing and verification, performance modeling and prediction, practical experiences for parallel and distributed systems. PDSE98 is the third event in the PDSE series. Previous events were the PDSE Workshops which were co-located with ICSE-18 in Berlin, March 1996, and with ICSE-19 in Boston, May 1997. It will be of interest to both industrial and academic practitioners and researchers who have experience in developing software for parallel and distributed systems.

Registration Fee: TBD

Int'l Workshop on the Principle of Software Evolution

Organizer: T. Katayama (JAIST, Japan), D. Perry (Bell Labs, U. S. A.), et al.

Date: April 20-21, 1998

Submission Due:

Contact: T. Katayama

E-mail: katayama@jaist.ac.jp

<http://kt-www.jaist.ac.jp:8000/icse98.html>

Topics: Software evolution is widely recognized as one of the most important problems in software engineering. Despite the significant amount of work that has been done, there are still fundamental problems to be solved. This is partly due to the inherent difficulties in software evolution, but also due to the lack of basic principles for evolving software systematically. The

purpose of this workshop is to discuss principles and mechanisms for software evolution. Topics discussed include, though not limited to, principles of evolution: (theories of evolution, computational models, empirical study of evolution, principles of architectural/design/implementation evolution, design methodologies for evolutionary system), mechanisms to support evolution: (adaptation and reconfiguration, language and system constructs, processes, methods, tools and environments, analysis and reasoning, inconsistency management, change implication and propagation, evolution across families and versions, evolution in network/web-based development).

Registration Fee:

Int'l Workshop on Component-Based Software Engineering

PC Co-Chairs: K. Wallnau (SEI, U. S. A.), J. Ning (Andersen Consulting, U. S. A.) and S. Uehara (Fujitsu Labs., Japan)

Date: April 25-26, 1998

Submission Due: Feb. 20, 1998

Contact: K. Wallnau,

E-mail: kcw@sei.cmu.edu

http://www.sei.cmu.edu/technology/dynamic_systems/cbs/icsewshp.html

Topics: One of the most exciting developments in recent years is the emergence of component-based systems technology in the commercial marketplace. The theme of this workshop is focused on component-management infrastructures—the software technology that supports development, execution, and deployment of component-based systems. Using a two-day forum of presentations, panel discussions and open discussions, the workshop will seek to answer these specific questions: What are the core technologies of component management infrastructures? Are component-based systems different from object-based systems? What is needed for component-based technology to succeed in the marketplace?

Registration Fee: TBD

Int'l Workshop on Aspect-Oriented Programming

PC Co-Chairs: C. V. Lopes (Xerox PARC, U. S. A.), G. Kiczales (Xerox PARC, U. S. A.), G. Murphy (U. British Columbia, Canada) and A. Lee (Korea U., Korea)

Date: April 20, 1998

Submission Due: Dec. 15, 1997

Contact: C. V. Lopes (Xerox PARC, U. S. A.)

E-mail: lopes@parc.xerox.com

<http://www.parc.xerox.com/aop/icse98/>

Topics: migrating to aspects / software design with aspects / how to identify aspects / reusing aspects / aspect description languages / the effect of aspects on software structure / programming language and environment support / translation techniques / debugging and testing with aspects

Registration Fee:

Software Engineering over the Internet

PC Co-Chairs & Contact: F. Maurer (U. Calgary, Canada)

E-mail: maurer@cpsc.ucalgary.ca

<http://sern.cpsc.ucalgary.ca/~maurer/ICSE98WS/ICSE98WS.html>

Date: April 25, 1998

Submission Due: Jan. 12, 1998

Topics: Topics of interest are (but not limited to)

- web-based software process modeling environments
- distributed process enactment
- replication support for software documents
- distributed data repositories

- knowledge management for SE projects
- internet-based experience factories
- world-wide configuration management support
- groupware support for software development
- project coordination support
- internet-based around-the-clock software development
- distributed testing environments
- collaborative system analysis and design
- improved internet-based traceability support
- distributed change impact analysis
- developing and maintaining large-scale software libraries

Registration Fee: None

Engineering Hypertext for Future Information Systems

PC Co-Chairs: G. Rossi (LIFIA, Argentina) and
H. Ziv (Quest Software and U.C. Irvine, U. S. A.)
Date: April 20, 1998
Submission Due Dec. 20, 1997 (Position Paper)
Contact: H. Ziv
E-mail: zivh@quests.com
<http://www.ics.uci.edu/~kanderso/htf5/cfp.html> or
<http://www.ep.cs.nott.ac.uk/HTF>

Topics: This workshop focuses on the value added to a system by hypertext and hypermedia support capabilities as well as the actual process of embedding hypertext functions into non-hypertext information systems. The main theme for this workshop is engineering hypertext functionality, i.e., various aspects of constructing hypertext capabilities. Topics of interest include, but are not restricted to, the following:

- Design and construction of hypertext functionality
- Incorporation of hypertext features into non-hypertext systems
- Evaluating usability and utility of the resulting augmented system
- Using multimedia information in software systems
- Software architectures that support/enable hypertext functionality
- Design patterns for hypertext functionality
- Interplay between hypertext and object-oriented software
- Evolution and maintenance of software systems that include hypertext functionality
- Metrics and measurements for hypertext functionality

Registration Fee:

PSMT - Workshop on Precise Semantics for Software Modeling Techniques

PC Co-Chairs: M. Broy (Tech. U. Munich, Germany), D. Coleman (Kings College, U. K.), T. S. E. Maibaum (Imperial College, U. K.), and B. Rumpe (Tech. U. Munich, Germany)
Date: April 20, 1998
Submission Due: Dec. 15, 1997
Contact: B. Rumpe
E-mail: rumpe@informatik.tu-muenchen.de
<http://www.forsoft.de/~rumpe/icse98-ws/>
Registration Fee: None

Workshop on Human Dimensions in Successful Software Development

PC Chair & Contact: S. Murugesan (U. of Western Sydney Macarthur, Australia)
E-mail: s.murugesan@uws.edu.au
<http://btwebsh.macarthur.uws.edu.au/san/hudworkshop/>
Date: April 21, 1998
Submission Due: Dec. 15, 1997

Topics: Humans - developers, managers, users and contract administrators - play vital roles in successful software development. Experience and many studies show that the major cause of most software failures is the people rather than technical issues. It is the people and culture of the organization that determine how any system is practiced. So far software development has, however, been pursued mainly on technical grounds, without much emphasis on human aspects. This workshop will focus on human dimensions in software development, implementation, utilization and maintenance and have a fresh and comprehensive look at a range of

human issues that impede successful software development and what could be, or should be, done solve those problems.

The topics of coverage include:

- Attitude of software developers and users, and management
- User participation and involvement
- Customer satisfaction
- Organizational culture and team dynamics
- Social process of software development
- Case studies and practical experiences
- Best and worst practices
- User modeling and user-centered designs
- Environment for successful software development

Registration Fee:

Workshop on Software Engineering Education

Date: April 25, 1998
Submission Due: Mar. 28, 1998
PC Chair & Contact: J. Jenkins (U. London, U.K.)
E-mail: J.O.Jenkins@city.ac.uk
Topics: The workshop focuses on the following topics but not limited.
Graduate programs in software engineering education
Discussion of syllabuses
Teaching and learning processes and assessment

Registration Fee: TBD

MSE'98 (Int'l Workshop on Multimedia Software Engineering)

Date: April 20-21, 1998
Submission Due: Dec. 20, 1997
PC Chair & Contact: J. Tsai (General Co-Chair, U. Illinois at Chicago, U.S.A.)
E-mail: tsai@eecs.uic.edu
<http://kel.eecs.uic.edu/MSE98/>

Topics: Despite the growing importance of multimedia applications, we still know relatively little about how to specify, design and maintain this class of complex applications in a systematic manner. The purpose of this workshop is to bring together active researchers in the area of software engineering and multimedia systems to exchange and evaluate the issues, experience, and trends in this area. MSE'98 will be conducted as a combination of paper presentations, invited talks, and panel discussion. Submission of high quality papers describing mature results or on-going work are invited. Topics of interest include, but are not limited to:

- multimedia software architecture
- representation of media types
- modeling and metamodeling techniques
- architecture specification languages
- software development using multimedia techniques
- multimedia authoring
- multimedia file systems and databases
- multimedia over mobile systems
- user-interface design
- requirements and design specification techniques
- distributed software development environment
- metrics, analysis, testing and debugging techniques
- visual programming
- software process models for multimedia applications

Registration Fee: TBD





ICSE 98

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Asia Pacific Symposium

??day, April 2X XX:XX-XX:XX

ICSE98 provides an opportunity for exchanging ideas and/or information for researchers and practitioners in Asia-Pacific Region. At ICSE17 in Seattle 1994, we had a workshop on "Asian Approaches to Software Engineering". It was very successful. We are planning to have a similar event in Kyoto. And it will also be possible to implement other plans such as to have a forum to discuss emerging Asian software markets, or for special exhibits of software engineering tools made in Asia.

Contact: Kouichi Kishida (k2@sra.co.jp)

Doctoral Symposium

Tuesday, April 21 9:00am-5:00pm

The ICSE 98 Doctoral Symposium is a one day workshop prior to the regular ICSE technical conference. The goal of the doctoral symposium is to publicly discuss research goals, methods, and results at an early stage of Ph.D. research and provide useful guidance for completion of the dissertation research. The symposium will also provide an opportunity for student participants to interact with each other as well as with established researchers and engineers in the wider software engineering community.

As the systems of doctoral courses are different by cultures, we are expecting participants coming from America, Europe, Asia-Pacific and all over the world. We also plan to discuss how common or different the doctoral systems are between countries.

Contact: Tetsuo Tamai (tamai@graco.c.u-tokyo.ac.jp)

ICSE98 EXPO

The Exhibit offers commercial exhibit space to vendors as well as research exhibit space for products by academic and government research laboratories. There are two types of exhibits.

- Commercial products from vendors.
- Research products from academia, industrial research laboratories, and government laboratories.

EXHIBIT SPACE

The Exhibit has commercial exhibit space and research exhibit space. All commercial exhibit space is sold in increments of 2m x 1.5m. Space rental rate is 400,000Yen per 2m x 1.5m booth, prior to 1 January 1998. After 1 January, the rate increases to 420,000Yen per booth. Cancellations of space will be assessed a 40,000Yen fee if cancellation is received in writing by 1 January 1998. Thereafter, no refunds will be provided for unoccupied space; space may not be sublet. As for research exhibits from academia and government laboratories, no rental rate is required.

Contact: Shinichi Honiden

c/o ICSE EXPO 98 Kyoto Producer Office, Nikkei Advertising Co., LTD.

Nikkei Koraibashi Bldg., 1-4-2 Koraibashi, Chuo-ku, Osaka 541 Japan

TEL: +81-6-231-9808 / FAX: +81-6-229-1780

E-MAIL: icseexpo@po.iijnet.or.jp

ICSE 98 Application Form for Hotel Accommodations

Application Deadline: Monday March 16, 1997

Please type and return this form to :

Kinki Nippon Tourist Co., Ltd. International Travel, Osaka Branch
c/o Nikko Bldg. 7F, 2-11-8, Sonezaki, Kita-ku, Osaka 530,
JAPAN

Phone: +81-6-313-6868 / Fax: +81-6-314-1601

E-Mail: intlosa@tabi.knt.co.jp

**Please use one form per person and fill in block letters.*

Title: () Mr. () Ms. () Dr. (Please mark "x".)

First name

Middle initial

Last name

Section / Department

Affiliation

Mailing address

City

State

Postal code

Country

Phone

Fax

E-Mail

Reserved Hotels List

Hotels	Room Rate(yen)	Access
A-1 Takaragaike Prince (URL: http://www.princehotels.co.jp/kyoto-e/index.html)	S 17,000 T 20,000	5 min. walk
B-1 Karasuma Kyoto (URL: http://www.kyotohotel.co.jp/karasuma/index.html)	S 10,000 T 19,000	15 min. subway
B-2 Rhiga Royal Hotel Kyoto (URL: http://www.rhiga.com/kyoto/index.html)	S 12,500 T 20,000	10min.walk& 20 min.subway
B-3 New Miyako Hotel	S 14,300 T 18,700	20 min.subway
B-4 Kyoto Kokusai Hotel	S 9,900	5 min.walk& 15 min.subway
B-5 Hotel New Hankyu (URL: http://www.o-kini.or.jp/hotel/hnh/kyoto-e/kyoto_1.html)	S 13,200 T 15,400	20 min.subway
C-1 Hotel Keihan Kyoto	S 9,500	20 min.subway
C-2 Kyoto Garden (URL: http://www.ampark.co.jp/ghs/ghshijoe.html)	S 8,000 T 14,000	15 min.subway
C-3 Hotel Gimmond	S 8,000 T 13,000	15 min.subway
C-4 Sanjo Karasuma Hotel (URL: http://www.ampark.co.jp/ghs/ghkyotoe.html)	S 8,300	15 min.subway
C-5 Maruko Inn Kyoto	S 7,500 T 12,400	5 min.walk & 15 min.subway
C-6 Kyoto Dai-ni Tower Hotel	S 7,500 T 14,000	20 min.subway
C-7 Kyoto Central Inn	S 7,000 T 13,000	10 min. walk & 15 min.subway

Notice:

- * Check Hotel Rates in URL: <http://www.keihanna-plaza.co.jp/ICSE98/Hotel/registration.html>
- * Above rates include a 10% of service charge, but not including a 5% consumption tax.
- * If total amount of the hotel bill per day per person exceeds more than 15,000 yen, another 3% of local tax will be added.
- * If the room of your first choice is fully booked, second or third choice of room will be automatically assigned.
- * If the chosen hotel total room charge does not exceed 20,000yen, please pay one night deposit of the most expensive hotel among your three chosen hotels.

HOTEL ACCOMMODATIONS

Please give your chosen hotel code from reserved hotel list

1st choice: _____ 2nd choice: _____ 3rd choice: _____

Desired room type: () Single () Twin () Twin/Single Usage

() I will share a room with _____

Check-in Date: _____ for _____ night(s)

Number of room(s): _____

Total deposit: 20,000yen + 500yen x _____ room(s) = _____ Yen ... (A)

Bank charge (if you pay by bank check or transfer) 1,500 Yen ... (B)

TOUR FARE PAYMENT

AP-1 Kyoto Morning Tour	5,500 x _____ person(s) = _____ Yen
AP-2 Kyoto Afternoon Tour	5,500 x _____ person(s) = _____ Yen
AP-3 Nara Afternoon Tour	5,500 x _____ person(s) = _____ Yen
AP-4 Kyoto & Nara One Day Tour	5,500 x _____ person(s) = _____ Yen
AP-5 Kimono&Yuzen Dyeing Tour	5,500 x _____ person(s) = _____ Yen
AP-6 Special Night Tour	5,500 x _____ person(s) = _____ Yen
Sub Total = _____ Yen ... (C)	

GRAND TOTAL (A) + (B) + (C) = _____ Yen

PAYMENT

Please mark "X" in () and fill in all information in the form.

() Credit card.

Total Amount: _____ Yen

Type of Card: () Visa, () Master Card, () American Express

Credit Card Number: _____

Expiration Date: (Month) _____ (Year) _____

Holder's Name: _____ (in block letters)

Holder's Signature: _____

() International cheque or money order in Japanese Yen Payable to
Kinki Nippon Tourist Co., Ltd. (Personal cheques will not be accepted.)

() I have remitted the above grand total of _____ Yen on
_____ (date) through _____ (bank
name) to the account of ICSE98 at Sanwa Bank Ltd. Osaka Ekimae Branch
(Please send a copy of the receipt of the remittance for our reference.)

Date

Signature

One day tours around Kyoto and Nara are available

Please contact with the agency for more detailed information.

Official Agency:

Kinki Nippon Tourist Co., Ltd.(KNT) International Travel, Osaka Branch
Nikko Bldg. 7F, 2-11-8, Sonezaki, Kita-ku, Osaka 530, Japan

Phone: 81-6-313-6868 / Fax: 81-6-314-1601

E-mail: intlosa@tabi.knt.co.jp

KNT will handle hotel reservations and tours for all participants. KNT is also in charge of travel to Kyoto, if necessary.

For accurating the data in the form, please inform us the above information except credit card information by e-mail (intlosa@tabi.knt.co.jp) when you send the above form by postal mail or fax. You can also ask for reservation of hotels and/or domestic travel before/after the conference. For details, please contact KNT by e-mail (intlosa@tabi.knt.co.jp).



ICSE98 Conference Registration Form

FOR YOUR CONVENIENCE: Please use on-line registration (<http://icse98.aist-nara.ac.jp/registration.html>)! It's much more convenient and accurate to send the completed form via internet (credit card information should be sent separately).

PLEASE PRINT / TYPE CLEARLY

First Name (Given Name) _____ Middle Initial _____

Last Name (Family/Surname) _____

Company / Organization _____

Abbreviation _____

Title (circle one): Prof. Dr. Mr. Mrs. Ms.
(The information above will be printed on your name card at the conference.)

Full Name _____

Address _____

Zip Code _____ Country _____

Phone _____ Fax _____

E-mail _____

Society Membership:
___ IPSJ ___ JSSST ___ IEEE-CS ___ ACMsigSoft

Membership Number of Above Society _____

Mark all that apply:

___ Paper Author ___ Paper Presenter
___ Session Chair ___ Never attended ICSE before

Indicate Payment Method:

We cannot accept checks or money orders.

___ Wire Transfer (Please pay any transfer fee involved.)

Account Name: ICSE98
Ordinary Deposit Account Number: 27341
Bank Name: Nanto Bank, Keihanna Plaza Branch

Sender Name _____ Transfer Date _____

___ VISA ___ Master Card

I authorize ICSE98 to apply the full balance due, for selected Registrations and Options, to my credit card.

Credit Card Number _____

Name (as it appears on card) _____ Expiration Date _____

Signature _____ Date _____

MAIL OR FAX COMPLETED FORM WITH PAYMENT TO:

ICSE98 Registration Office

ATR Media Interaction & Communications Research Laboratories

2-2 Hikaridai, Seika-cho,

Soraku-gun, Kyoto 619-02 JAPAN

phone: +81-774-95-14xx fax: +81-774-95-14xx

e-mail: icse98-apply@mic.atr.co.jp

Registration Fee: Early Registration Received on or before March 16, 1998 JST
Late Registration Received after March 16, 1998 JST

* The registration fee is charged separately from the Technical Program, Tutorials and Workshops.

Technical Program

Member	Nonmember	Student	Fee Paid
Early	Early	Early	Early
Late/On-site	Late/On-site	Late/On-site	Late/On-site
40,000 yen	52,000 yen	20,000 yen	25,000 yen
52,000 yen	65,000 yen	20,000 yen	25,000 yen
52,000 yen	65,000 yen	20,000 yen	25,000 yen

* The registration fee for the technical program includes ONE copy of the proceedings and tickets to social events (excluding banquets).

* Students must send a proof of eligibility with your registration form.

Tutorials

* Please be sure NOT to book more than one TUTORIAL/WORKSHOP for the same time. No refund will be given.

* No student discounts on tutorial fee.

Full Day Tutorials:	Member	Nonmember
Early	Early	Early
Late/On-site	Late/On-site	Late/On-site
40,000 yen	50,000 yen	50,000 yen
50,000 yen	50,000 yen	60,000 yen

Monday, April 20, 1998

___ T01: XXXXXX XXXXXXXXXXXX XX XXX or

___ T02: XXXXXX XXXXXXXXXXXX

Tuesday, April 21, 1998

___ T03: XXXXXX XXXXXXXXXXXX XX XXX or

___ T04: XXXXXX XXXXXXXXXXXX

Half Day Tutorials:	Member	Nonmember
Early	Early	Early
Late/On-site	Late/On-site	Late/On-site
20,000 yen	25,000 yen	25,000 yen
25,000 yen	25,000 yen	30,000 yen

AM Monday, April 20, 1998

___ T05: XXXXX XXX XXX XXXXXX or

___ T06: XXX XXXXXXXXXXXX XXX XXXXXX XXX

PM Monday, April 20, 1998

___ T07: XXXXXXXXXXXX XXX XXXXXX or

___ T08: XXXXXXXXXXXX XXX XXXXXX

AM Tuesday, April 21, 1998

___ T09: XXXXX XXX XXX XXXXXX or

___ T10: XXX XXXXXXXXXXXX XXX XXXXXX XXX

PM Tuesday, April 21, 1998

___ T11: XXXXXXXXXXXX XXX XXXXXX or

___ T12: XXXXXXXXXXXX XXX XXXXXX

Workshops

___ W01: IWSSD-9 (9th Int'l Workshop on Software Specification and Design)

Separately registered. Check <http://salab-www.cs.titech.ac.jp/iwssd9.html>

___ W02: ISORC98 (Int'l Symposium on Object-oriented Real-time distributed Computing)

40,000 yen 50,000 yen 50,000 yen 60,000 yen 20,000 yen 25,000 yen

___ W03: PDSE'98 (Software Engineering on Parallel and Distributed systems)

40,000 yen 50,000 yen 50,000 yen 60,000 yen 20,000 yen 25,000 yen

___ W04: Int'l Workshop on the Principle of Software Evolution

40,000 yen 50,000 yen 50,000 yen 60,000 yen 20,000 yen 25,000 yen

___ W05: Int'l Workshop on Component-Based Software Engineering

40,000 yen 50,000 yen 50,000 yen 60,000 yen 20,000 yen 25,000 yen

___ W06: Aspect-Oriented Programming Workshop

40,000 yen 50,000 yen 50,000 yen 60,000 yen 20,000 yen 25,000 yen

___ W07: Workshop on Software Engineering over the Internet

No registration fee is required.

___ W08: Engineering Hypertext for Future Information Systems

40,000 yen 50,000 yen 50,000 yen 60,000 yen 20,000 yen 25,000 yen

___ W09: Workshop on Precise Semantics for Software Modeling Techniques

No registration fee is required.

___ W10: Workshop on Human Dimensions in Successful Software Development

40,000 yen 50,000 yen 50,000 yen 60,000 yen 20,000 yen 25,000 yen

___ W11: Workshop on Software Engineering Education

40,000 yen 50,000 yen 50,000 yen 60,000 yen 20,000 yen 25,000 yen

Banquet

___ Will attend: 5,000 yen

___ Will attend with my spouse: 8,000 yen

___ Will NOT attend

If you select "Will attend with my spouse", please type your spouse's Title & Name. This will be printed on your spouse's name card at the Banquet.

TOTAL REMITTANCE (must be in Japanese Yen): _____

ICSE99 *The 21st International Conference on Software Engineering*

Los Angeles Airport Marriott Hotel, USA

May 16-22, 1999

Preparing for the Software Century: Software Engineering Challenges for the Global Electronic Community

Software pervades all of the growing web of computers, communications, personal and commercial services, financial and public services, and entertainment services evolving into the global electronic community of the 21st century. Providing timely, cost-effective, high-quality software for the diverse stakeholders of this community will require the best possible technology and practices the software engineering community can provide.

ICSE 99 provides a number of linked forums for presenting and discussing the most promising approaches for meeting these challenges. The forums include the main conference May 19-21, and associated special-topic workshops, symposia, and tutorials May 16-18 and May 22, 1999. The ICSE 99 main conference will include refereed technical papers, invited industry presentations, panels, exhibits, and leading keynote speakers. Featured keynote speakers will include Dr. Alan Kay, Vice President and Disney Fellow, Walt Disney Imagineering; and Dr. William Wulf, the first software engineer to serve as President of the U.S. National Academy of Engineering.

The conference will be organized around four main subthemes:

- Quality and Service to People. Scaling up software engineering technology for global use; ensuring safety, security, helpfulness, and quality of service for diverse sets of users; providing safe and powerful user-programmability.
- Product Line Architecture and Componentry. Domain engineering, software architectures, reuse, reengineering, and evolution support.
- Integrating Process and Product Engineering. Concurrent process/product engineering, management, and control; new processes supporting reuse, rapid and high-quality development and evolution; pro-active process/product support tools and environments.
- Advanced Applications. Case studies and lessons learned in meeting 21st century challenges: rapid applications development, COTS integration, high-tech/high-touch product tailoring, systems of systems, networks of networks, hypermedia, autonomous agents.

The deadline for submitting refereed technical papers, panel proposals, and tutorial proposals will be September 4, 1998. Besides research papers and experience reports, the Program Committee encourages well-analyzed case-studies of experiences and lessons learned in developing significant software systems. The deadline for submitting workshop proposals will be June 5, 1998. If you have questions or suggestions for additional Conference emphases, please contact the Conference organizers.

May is a glorious time in Los Angeles. The average noon temperature is 72° F. The area's beaches, mountains, islands, theme parks, museums, theaters, and restaurants are not yet crowded by summer tourism. The Conference will be arranging tours to some of these attractions for attendees.

The Los Angeles Airport Marriott Hotel has a pleasant and relaxing semitropical atmosphere, yet is just a free half-mile shuttle ride from the Los Angeles International Airport. Room rates for attendees will be an attractive \$119 per night.

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WELCOME TO KYOTO IN CHERRY BLOSSOM SEASON

CITY OF HISTORY AND LEARNING

Kyoto, a city with 1,200 years of history, is the cultural soul of Japan. Nestled among low mountains, it is blessed with both natural beauty and a rich historical legacy. It is the ideal site for international conventions. From its establishment as Japan's capital in 794 until the Meiji Restoration in 1868, Kyoto flourished as the center of government, commerce and culture in Japan. Traditional arts and an abundance of shrines and temples give the city its distinct character. With nearly 1.5 million residents, Kyoto is a vibrant mixture of old and new. Many high-tech firms have chosen it as their headquarters, and the city boasts 47 public and private colleges and universities. These significant intellectual resources combine with Kyoto's long history and tradition to provide an ideal milieu for innovation and creativity.

NATURAL BEAUTY

Kyoto is a panorama of the changing seasons: from the spring-time cherry blossoms lining narrow walkways, the lush greenery of summer, to the brilliant autumn foliage of Japanese maples and the delicate layer of snow covering the surrounding mountainsides in winter. The passage of seasons is also evident in the beautiful gardens of Kyoto's ancient temples and shrines.

CULTURAL HERITAGE

Reflecting its long history as the cultural and religious center of Japan, Kyoto is home to nearly 2,000 Buddhist temples and Shinto shrines. The city's international cultural significance was recognized when 17 historical sites in Kyoto were designated as UNESCO World Cultural Heritage Sites. Kyoto is the location of 20% of Japan's national treasures. More than 60 museums throughout the city offer visitors the opportunity to view priceless works of art and important cultural objects.



KYOTO INTERNATIONAL CONFERENCE HALL

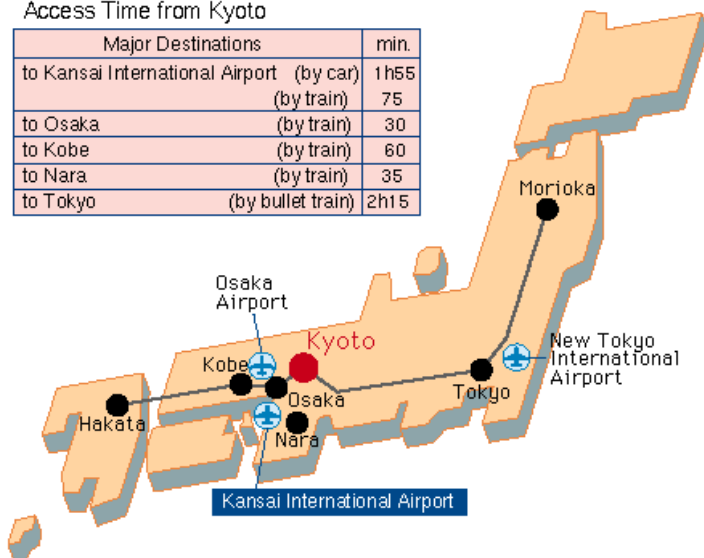
Japan's leading convention center, the Kyoto International Conference Hall, is a complex consisting of seven separate conference halls, the largest of which can hold 2,000 persons. Another 70 conference rooms of various sizes are available for smaller meetings. Two large banquet halls and a Japanese landscape garden offer additional settings for convention participants to meet and communicate informally.

TRANSPORT

Kyoto has many modern hotels with accommodations for up to 20,000 visitors. Located near the center of Japan, it is readily accessible by land and air. The high-speed Shinkansen (bullet train) links Tokyo with Kyoto in 2 hours and 15 minutes. Overseas visitors arriving at Kansai International Airport (KIX) have a comfortable 75-minute ride by the JR Haruka Express train to Kyoto Station. There is a direct subway link from Kyoto Station to Kyoto International Conference Hall, taking about 20 minutes.

Access Time from Kyoto

Major Destinations	min.
to Kansai International Airport (by car)	1h55
(by train)	75
to Osaka (by train)	30
to Kobe (by train)	60
to Nara (by train)	35
to Tokyo (by bullet train)	2h15



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ACM Special Interest Group on Software Engineering



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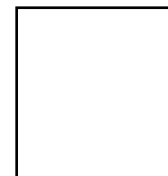
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In cooperation with

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Ministry of Posts and Telecommunications of (tentative)

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