

**ADVANCED PROGRAM and CALL FOR PARTICIPATION
FOURTH IEEE INTERNATIONAL CONFERENCE ON
REQUIREMENTS ENGINEERING (ICRE2000)**

June 19-23, 2000

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Schaumburg, Illinois USA

Sponsored by IEEE Computer Society Technical Council on Software Engineering

<http://www.cse.msu.edu/ICRE2000>



ICRE2000 At-a-Glance

	Monday		Tuesday	Wednesday	Thursday	Friday	
	Pre-Conference Tutorials					Post-Conference Tutorials	
A M	T1: <i>Using Non-Functional Requirements to Improve the Software Development Process</i> L. M. Cysneiros, J.C.S. Leite, PUC-Rio, Brazil	T2: <i>System Safety and the Requirements Engineering Process</i> J.A. McDermid, Univ. of York, UK	Keynote I: P. Neumann, SRI International, USA <i>Requirements-Related Risks in Critical Systems</i>	Keynote II: D. Parnas, McMaster Univ., Canada <i>Requirements Documentation: Why a Formal Basis is Essential</i>	Technical Session: G. Reuse	T5: <i>Writing and Evaluating Requirement Specifications</i> L. H. Rosenberg, A. Gallo, Software Assurance Technology Center, NASA GSFC, USA	T6: <i>The Most Ignored Piece of Requirements Engineering: Requirements Triage</i> A.M. Davis, Omni-Vista, Inc., USA
			Technical Session: A. Process and Modeling	Technical Session: D. Evolution	Technical Session: H. Best Papers		
P M	T3: <i>Using Abstract State Machines in Requirements Engineering</i> E. Boerger, Universita di Pisa, Pisa, Italy currently visiting Microsoft Research, Redmond, WA, USA	T4: <i>Writing Good Requirements OR The "How To" of Use Case</i> I. Hooks, Compliance Automation, Inc., USA	Technical Session: B. Specifications & Poster Highlights C. Panel: <i>Certification & Licensing of Requirements Engineering Professionals</i>	Technical Session: E. Requirements Analysis and Management F. Panel: <i>Why is it so difficult to introduce RE research results into mainstream RE practice?</i>	Keynote III: D. C. Gause, Savile Row, LLC, USA <i>What have we accomplished? Where are we now? Where are we going?</i>	T7: <i>User DRIVEN Design - The Luxury that has Become A Necessity</i> D.C. Gause, Savile Row, LLC, USA	T8: <i>Commonality Analysis for Defining Software Product Lines</i> M.A. Ardis, Bell Labs, USA
			Poster/Demo Session	Conference Reception			

Key Dates		Corporate Sponsors		
Author Registrations Due:	Jan 30, 2000			
Adv. Registration/Tutorial Deadline:	May 19, 2000			
Conference:	June 19-23, 2000			

Corporations interested in sponsoring ICRE please contact Professor Carl K. Chang, Chair, ICRE Steering Committee, at ckchang@uic.edu, or (312) 996-4860

COMMITTEES

<p>GENERAL CHAIR: Pei Hsia, <i>Univ. of Texas at Arlington</i></p> <p>PROGRAM CO-CHAIRS: Betty Cheng, <i>Michigan State Univ</i> David Weiss, <i>Bell Laboratories</i></p> <p>TUTORIALS CHAIR: Daniel Berry, <i>Univ. of Waterloo, CA</i></p> <p>PUBLICITY CHAIR: Annie Antón, <i>N. Carolina State Univ</i></p> <p>EXHIBITS CHAIR: David Hottman, <i>Compliance Automation</i></p> <p>REGISTRATION CHAIR: John Liu, <i>Lucent Technologies</i></p> <p>FINANCE CHAIR: David Levine, <i>Univ. of Texas at Arlington</i></p> <p>LOCAL ARRANGEMENTS: Carl Chang, <i>Univ. of Ill.-Chicago</i></p> <p>STEERING COMMITTEE: Carl Chang, Chair, Daniel Berry, Betty Cheng, Alan Davis, Merlin Dorfman, Pei Hsia, Brian Lawrence, Nancy Mead, Jawed Siddiqi, David Weiss</p> <p>Conference questions: icre2000@cse.msu.edu</p>	<p align="center">PROGRAM COMMITTEE</p> <table> <tr> <td>Annie I. Antón</td> <td>Martin Feather</td> <td>John Mylopoulos</td> </tr> <tr> <td>Jo Atlee</td> <td>Marilyn Gaska</td> <td>Bashar Nuseibeh</td> </tr> <tr> <td>John Boddie</td> <td>Don Gause</td> <td>Klaus Pohl</td> </tr> <tr> <td>Karin Breitman</td> <td>Paul Grabow</td> <td>Linda Rosenberg</td> </tr> <tr> <td>Eric Byrne</td> <td>Sol Greenspan</td> <td>Kurt Stirewalt</td> </tr> <tr> <td>Jack Callahan</td> <td>Constance Heitmeyer</td> <td>Axel van Lamsweerde</td> </tr> <tr> <td>Dwight Colby</td> <td>Lalita Jagadeesan</td> <td>Frank Weil</td> </tr> <tr> <td>John Dobson</td> <td>Robert Johnson</td> <td>Alan Yaung</td> </tr> <tr> <td>Janet Drake</td> <td>Nader Kameli</td> <td>Greg Zelesnik</td> </tr> <tr> <td>Steve Easterbrook</td> <td>Robyn Lutz</td> <td>Didar Zowghi</td> </tr> </table>	Annie I. Antón	Martin Feather	John Mylopoulos	Jo Atlee	Marilyn Gaska	Bashar Nuseibeh	John Boddie	Don Gause	Klaus Pohl	Karin Breitman	Paul Grabow	Linda Rosenberg	Eric Byrne	Sol Greenspan	Kurt Stirewalt	Jack Callahan	Constance Heitmeyer	Axel van Lamsweerde	Dwight Colby	Lalita Jagadeesan	Frank Weil	John Dobson	Robert Johnson	Alan Yaung	Janet Drake	Nader Kameli	Greg Zelesnik	Steve Easterbrook	Robyn Lutz	Didar Zowghi
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Tuesday, June 20, 2000

8:30-9:00	Opening Remarks, Pei Hsia, General Chair; Betty Cheng and David Weiss, Program Co-Chairs
9:00-10:00	Keynote I, Chair : Daniel Berry , Univ. of Waterloo, Canada <i>Requirements-Related Risks in Critical Systems</i> , Peter G. Neumann , SRI International, USA
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10:00-10:30 Break	
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10:30-12:00 Session A	Process and Modeling, Chair: Steve Easterbrook , Univ. of Toronto, Canada A1: Process Modeling for Object Oriented Analysis using BORM Object Behavioral Analysis , R. P. Knott , Loughborough Univ., UK, V. Merunka , Czech Univ. of Agriculture, Czech Republic, J. Polak , Deloitte & Touche, Czech Republic A2: On the inherent challenges of business modeling in large-scale re-engineering projects , J. A. Gulla , Norwegian Univ. of Science and Technology, Norway A3: A Process Framework for Requirements Analysis and Specification , E. Garcia-Alcazar and A. Monzon , TCP Sistemas e Ingenieria, Spain
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12:00-1:30 Lunch	
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1:30-3:00 Session B	Specifications , Chair: Nader Kameli , Guidant Corp., USA B1: A Framework for Multi-Notation Requirements Specification and Analysis , N. Day , Oregon Graduate Institute and J. Joyce , Intrepid Critical Software, USA B2: A Lightweight Approach to Consistency of scenarios and class models , M. Glinz , Univ. of Zurich, Switzerland B3: Poster Session Highlights , Chairs: Martin Feather , NASA JPL, Jack Callahan , W. Virginia/NASA IV&V, USA <i>Z Specifications Meet Mathematica for Exploratory Prototyping</i> , L. Sherrell , Univ. of West Florida and W.H. Paulsen , Arkansas State Univ., USA <i>Patterns and Aspects for Use Cases: Reuse Techniques for Use Case Descriptions</i> , M. Saeki , Tokyo Institute of Technology, Japan <i>The Requirement Set: The bigger picture and quality impact</i> , P. Ferdinandi , Strategic Business Decisions, Inc., USA
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3:00-3:30 Break	
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3:30-5:00 Panel C	Chair: Bashar Nuseibeh , Imperial College, UK <i>What do you mean I've been practicing without a license? Certification & Licensing of Requirements Engineering Professionals</i> Moderators: A. Anton , North Carolina State Univ., USA and J. Atlee , Univ. of Waterloo, Canada Panelists: N. Mead , SEI, USA, P. Neumann , SRI International, USA, D.L. Parnas , McMaster Univ., Canada, M. Ardis , Bell Labs, USA, and E.D. Dorchester , Texas Board of Professional Engineers, USA
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5-6:00 Poster/Demo Session	Posters/Demos
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Wednesday, June 21, 2000

9:00-10:00 AM

Keynote II, Chair: David Weiss, Bell Labs, USA

Requirements Documentation: Why a Formal Basis is Essential,
David L. Parnas, McMaster Univ., Canada

10:00-10:30 Break

10:30-12:00 Session D

Evolution, Chair: Didar Zowghi, Macquarie Univ., Australia

D1: Prioritising Scenario Evolution, F. Moisiadis, Macquarie Univ., Australia

D2: Scenario Evolution: A closer view on relationships, K. Breitman and J.C.S. Leite, PUC-Rio, Brazil

D3: Enhancing Requirements and Change Management through Process Modeling and Measurement, L. Lavazza and G. Valetto, CEFRIEL and Politecnico di Milano, Italy

12:00-1:30 Lunch

1:30-3:00 Session E

Requirements Analysis and Management, Chair: Klaus Pohl, Univ. of Essen, Germany

E1: Scalable Mechanisms for Requirements Interaction Management, M. Feather, NASA Jet Propulsion Laboratory, USA

E2: Essential and incidental complexity in Reqts Models, L. Nguyen and P. Swatman, Deakin Univ., Australia

E3: Lightweight Validation of Natural Language Requirements: a case study, V. Gervasi, Universita di Pisa, Italy **and B. Nuseibeh**, Imperial College, UK

3:00-3:30 Break

3:30-5:00 Panel F

Chair: Frank Weil, Motorola, USA

Why is it so difficult to introduce RE research results into mainstream RE practice?

Moderator: H. Kaindl, Siemens AG Austria

Panelists: S. Greenspan, GTE Laboratories Inc., USA, **C. Heitmeyer**, Naval Research Laboratory, USA, **J.C.S. Leite**, Pontificia Universidade Catolica-Rio, BR, **N. Mead**, SEI, USA, **and J. Siddiqi**, Sheffield Hallam Univ., UK

5:30-8:00

Conference Reception

Thursday, June 22, 2000

9:00-10:30 Session G

Reuse, Chair: Dwight Colby, Secure Computing Corp., USA

G1: Mapping Requirements to Reusable Components using Design Spaces, L. Baum, M. Becker, L. Geyer, and G. Molter, Univ. of Kaiserslautern, Germany

G2: Establishing Reuse Measurement Practices in SAP Requirements Engineering, M. Daneva, Clearnet Communications Inc., Canada

G3: An Assessment of the Relative Efficiency of a Facilitator-Driven Reqts Collection Process with respect to Conventional Interview Method, R. Hubbard, BEA Systems, **C. N. Schroeder**, Colorado Technical Univ., **and N. Mead**, SEI, USA

10:30-11:00 Break

11:00-12:30 Session H

Best Papers, Chair: Lalita Jagadeesan, Bell Labs, USA

H1: A Reference Model for Requirements and Specifications, C. Gunter, Univ. of Pennsylvania, **E.L. Gunter**, Bell Labs, **M. Jackson**, **and P. Zave**, AT&T Labs., USA

H2: Requirements Validation of a Voice Communication System used in Air Traffic Control, J. Horl and B. Aichernig, Technical Univ. of Graz, Austria

H3: The effects of communication media on group performance in RE, D.E.H. Damian, A. Eberlein, M.L.G. Shaw, and B.R. Gaines, Univ. of Calgary, Canada

12:30-2:30 Conference Lunch

Keynote III, Chair: Brian Lawrence, Coyote Valley Software, USA

Requirements Engineering, June 22, 2000, What have we accomplished? Where are we now? Where are we going?
Donald C. Gause, Savile Row, LLC, USA

ICRE2000 Registration Form

Mail or Fax to:

Yong (John)Liu, Ph.D. , Lucent Technologies
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mailto: yongliu@lucent.com

ICRE2000: June 19-23, 2000,
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CONFERENCE FEES (Note: The registration fee includes conference materials, refreshments during breaks, one reception, and Thursday lunch.)

Advanced Conference Registration Fee (on or before May 19, 2000):

___ Members* \$475
___ Non-Members \$575
___ Full-Time Students** \$275

Late/On-site Conference Registration Fee (after May 19, 2000):

___ Members* \$540
___ Non-Members \$620
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TUTORIAL FEES

Advanced Tutorial Registration Fee (on or before May 19, 2000):

Number of tutorials selected:	One	Two	Three	Four
___ Members*	\$180	\$350	\$510	\$660
___ Non-Members	\$230	\$450	\$660	\$860

Late/On-site Tutorial Registration Fee (after May 19, 2000):

	One	Two	Three	Four
___ Members*	\$210	\$410	\$600	\$780
___ Non-Members	\$265	\$520	\$765	\$1,000

Tutorial Selections: (Please visit <http://www.cse.msu.edu/ICRE2000> for details.)

Monday June 19, 2000

- Morning:
- ___ T1: *Using Non-Functional Requirements to Improve the Software Development Process*, Prof. Julio Cesar Sampaio do Prado Leite, Luiz Marcio Cysneiros, Pontificia Universidade Catolica, Rio de Janeiro, Brazil
 - ___ T2: *System Safety and the Requirements Engineering Process* by Prof. John A. McDermid, Univ. of York, York, UK
- Afternoon:
- ___ T3: *Using Abstract State Machines in Requirements Engineering*, Prof. Egon Boerger, Universita di Pisa, Pisa, Italy
 - ___ T4: *The "How To" of Use Case*, Ivy Hooks, Compliance Automation, Inc., Boerne, TX, USA

Friday June 23, 2000

- Morning:
- ___ T5: *Writing and Evaluating Requirement Specifications*, Dr. Linda H. Rosenberg and Albert Gallo, Software Assurance Technology Center, NASA GSFC, Greenbelt, MD, USA
 - ___ T6: *The Most Ignored Piece of Requirements Engineering: Requirements Triage*, Alan M. Davis, Omni-Vista, Inc., Colorado Springs, CO, USA
- Afternoon:
- ___ T7: *User DRIVEN Design—The Luxury That Has Become A Necessity, A Workshop In Full Life-Cycle Requirements Management*, Donald C. Gause, Principal, Savile Row, LLC, Binghampton, NY, USA
 - ___ T8: *Commonality Analysis for Defining Software Product Lines*, Dr. Mark A. Ardis, Lucent Technologies, Bell Laboratories, Naperville, IL, USA

TOTAL PAYMENT ENCLOSED (fill one)

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Signature: _____ **Date:** _____

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