



29th International Conference on Software Engineering



Industrial Support

We are extremely grateful to our industrial supporters:

Platinum



Gold



Silver



Bronze



ICSE 2007 Team

- Organizing committee
- Several program committees
- ICSE sponsors:
 - ACM SIGSOFT
 - IEEE CS Technical Committee on Software Engr.
- Minneapolis Convention Bureau
- Minneapolis Hilton Staff

My personal thanks to everybody involved



Organizing Committee

Wolfgang Emmerich, UCL, UK,
 Gregg Rothermel, U Nebraska at Lincoln, USA,
 Marsha Chechik, University of Toronto, Canada,
 Paola Inverardi, Università di L'Aquila, Italy,
 Tim Lethbridge, University of Ottawa, Canada,
 Andre van der Hoek, UC Irvine, USA,
 Anna Liu, Microsoft Australia,
 Albert Zündorf, University of Kassel, Germany,
 Frank Maurer University of Calgary, Canada,
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 Lionel C. Briand, Carleton University, Canada,
 Alexander L. Wolf, Imperial College, UK,
 David Evans, University of Virginia, USA,
 Alex Orso, Georgia Tech, USA,
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 Robyn Lutz, Iowa State University and JPL, USA,
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Peggy Reed

- Detail planning
- Travel arrangements
- Telephone conferences
- Contracts
- Budgets, budgets, budgets
- Visa letters
- E-mail
- Regular mail
- Menus for meals
- Etc.



Quite A Contrast

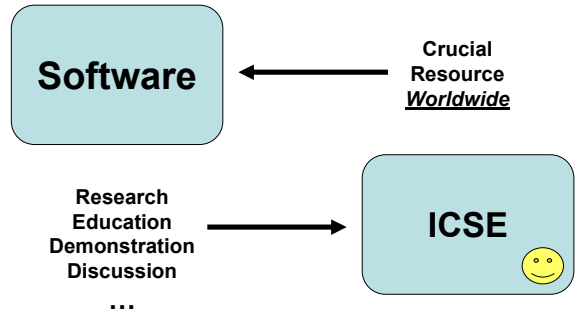


Shanghai - 2006

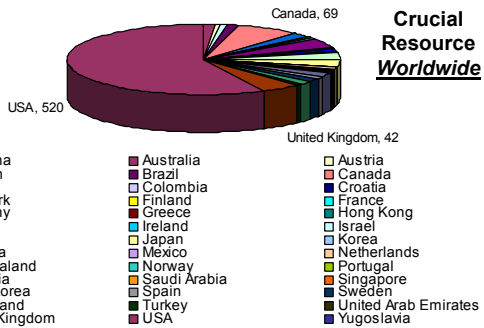


Minneapolis - 2007

International Conference on Software Engineering



ICSE Demographics



ICSE Demographics

Argentina	1	Greece	2	Portugal	3
Australia	11	Hong Kong	4	Romania	1
Austria	6	India	6	Saudi Arabia	1
Belgium	8	Ireland	6	Singapore	2
Brazil	12	Israel	3	South Korea	19
Canada	69	Italy	29	Spain	8
China	18	Japan	28	Sweden	16
Colombia	2	Korea	1	Switzerland	16
Croatia	1	Malaysia	1	Turkey	3
Denmark	1	Mexico	1	United Arab Emirates	1
Finland	2	Netherlands	8	United Kingdom	42
France	7	New Zealand	4	USA	520
Germany	41	Norway	4	Yugoslavia	1

Before And After

- Twenty two workshops
 - 607 attendees
- Fifteen tutorials
 - 222 attendees
- Collocated events:
 - International Conference on Software Process
 - New Software Engineering Faculty Symposium
 - Doctoral Symposium
 - Symposium Honoring Barry Boehm

Keynotes

- [Steve Fisher](#), salesforce.com
 - The Architecture of the Apex Platform, salesforce.com's Platform for Building On-Demand Applications
- [Deborah Johnson](#), University of Virginia
 - Computer Professional Ethics in Theory and in Practice
- [Bev Littlewood](#), City University London
 - Limits To Dependability Assurance - A Controversy Revisited

Program Elements

- Program tracks:
 - Research
 - Future of software engineering
 - Education
 - Formal demonstrations
 - Experience reports
- Panels:
 - Impact project
 - NSF software engineering investigators
 - Future of software engineering research funding
- Portraits in Practice
- Poster session
- Infosys-Software Engineering Challenges in IT Services

ICSE 2007 Technical Program

Research Program Co-Chairs:

Wolfgang Emmerich
University College London, UK

Gregg Rothermel
University of Nebraska – Lincoln, USA

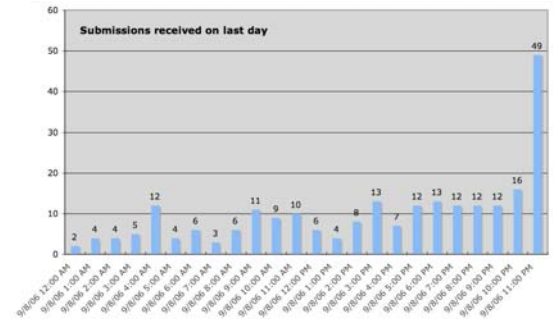
Technical Program



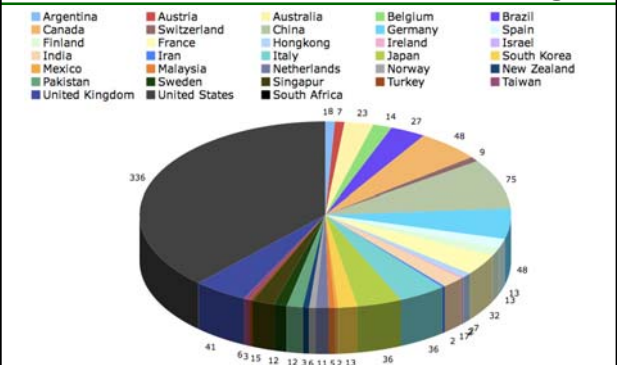
- 493 papers submitted
- Proceedings contain peer-reviewed
 - Research papers
 - SE education papers
 - Formal research demos
 - Experience reports

Research Paper Submission

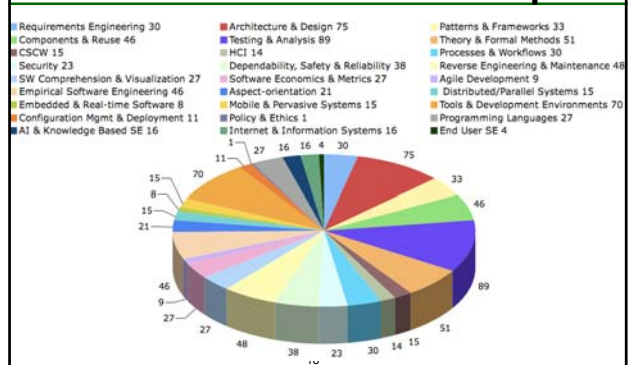
- 335 research papers received by 8th Sept. 2006



Research Paper Author Origins



Research Paper Topics



Research Paper Selection

- Papers reviewed by PC co-chairs, 325 retained for review
- Two-phase review process
 - Phase 1: all papers received 2 reviews
 - Phase 2: 166 papers received 3rd review
- 815 reviews completed
- PC meeting, December 8-9, Washington DC
- 49 papers accepted
- Acceptance rate: 15%

ICSE 2007 Research PC

Joanne Atlee
Judith Bishop
Victor Braberman
Margaret Burnett
S.C. Cheung
Giovanni Denaro
Matthew Dwyer
Jacky Estublier
Anthony Finkelstein
Harald Gall

Carlo Ghezzi
Dimitra Giannakopoulou
Paul Grünbacher
Volker Gruhn
John Grundy
Rachel Harrison
Jens Jahnke
Richard Kemmerer
Gail Murphy
Amy Murphy
Kumiyo Nakakoji

Harold Ossher
Gian Pietro Picco
Atanas Rountev
Mary Lou Soffa
Kevin Sullivan
Tetsuo Tamai
Peri Tarr
Richard Taylor
Walter Tichy
Willem Visser



Experience Reports

- 52 reports submitted
15 reports accepted
Acceptance rate: 28%
Experience PC chairs
- Michael Hirsch (Zühlke AG)
 - Frank Maurer (U Calgary)

Experience Reports PC

- Pekka Abrahamsson
- Mikio Aoyama
- Robert Biddle
- Walter Bischofberger
- Daniela Damian
- Andre De Lucia
- Yvonne Dittrich
- Hakan Erdogmus
- Christiane v. Wangenheim
- Paul Grünbacher
- John Grundy
- Yanbo Han
- Philippe Kruchten
- Filippo Lanubile
- Jürgen Münch
- Donald Reifer
- Markus Schacher
- Forrest Shull
- Laurie Williams
- Yun Yang

Research Demonstrations

- 56 Proposals submitted
12 Formal research demos accepted
Acceptance rate: 21%
Research Demo chairs
- Elisabetta di Nitto (Politecnico Milano)
 - Alex Orso (Georgia Tech)

Research Demo PC

- Jonathan Cook
- Prem Devanbu
- Kokichi Futatsugi
- John Grundy
- Shrawan Kumar
- Tiziana Margaria
- Cecilia Mascolo
- James Noble
- Matteo Pradella
- Martin Robillard
- Sebastian Uchitel
- Andreas Zeller
- Jian Zhang

SE Education Papers

- 50 papers submitted
13 papers accepted
Acceptance rate: 26%
SE Education PC chairs
- Tim Lethbridge (University of Ottawa)
 - André van der Hoek (UC Irvine)

SE Education PC

- Ban Al-Ani
- Nicolas Anquetil
- Jocelyn Armarego
- David Budgen
- Betty Cheng
- Joe Clifton
- Sheryl Dugins
- Robert Dupuis
- Sebastian Elbaum
- Heidi Ellis
- Michael Ernst
- Robert France
- Jane Hayes
- Orit Hazzan
- Peter Henderson
- Cem Kaner
- Philippe Kruchten
- Katsushisa Maruyama
- Nancy Mead
- Ana M. Moreno
- Vladimir Pavlov
- Mark Sebern
- Marbarett-Anne Storey
- Eleni Stroulia
- Hans van Vliet
- Claudia M L Werner
- Timo Wolf
- Andreas Zeller

Technical Paper Sessions

Salon F	Salon E	Salon G	Marquette/Lasalle	Hennepin/Carver
Wednesday May 23				
Research Papers: Program Analysis I	Research Papers: Models	Future of Software Engineering I		Experience Reports: Asia Methods and Design
Research Papers: Testing I	Research Papers: Clone Detection and Removal	Future of Software Engineering II	Education Papers: Pedagogy	Experience Reports: Performance and Metrics
Research Papers: Aspect-oriented Software Engineering	Research Papers: Maintenance	Future of Software Engineering III	Education Papers: Curricula & Course Design I	Experience Reports: Modeling
Thursday May 24				
Research Papers: Software Architecture	Research Papers: Program Analysis II	Future of Software Engineering IV	Demo Papers: Software Evaluation	Experience Reports: Testing
Research Papers: Debugging and Fault Correction	Research Papers: Design I	Future of Software Engineering V	Demo Papers: Testing and Analysis	Experience Reports: Software Development Processes
Friday May 25				
Research Papers: Program Analysis III	Research Papers: Human Aspects in Software Development	Future of Software Engineering VI	Future of Software Engineering VII	Demo Papers: Development, Integration, and Maintenance
Research Papers: Testing II	Research Papers: Refactoring and Rescue	Future of Software Engineering VIII	Education Papers: Evaluation	Demo Papers: Modeling
Research Papers: Security	Research Papers: Software Defects	Future of Software Engineering IX	Education Papers: Curricula & Course Design II	

Food for Thought

- Presentations at lunchtime
 - Partitioned lunch space
- Wednesday:
 - “Retrospectives on Peopleware”
 - Panel
- Thursday:
 - “Agile Contracts”
 - Mary Poppendieck
- Friday
 - “Modeling for Maintainability”
 - Andrew Watson

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Miscellaneous Details

- Student volunteers:
 - Available to help, please ask
 - Wearing ICSE T shirts
- Help available in Redwing Room (2nd floor)
- “Minneapolis Bargain Book”
- Facilitator in lobby late this afternoon:
 - Suggestions for restaurants and recreation
 - Reservations
 - Directions
- Committee meetings listed in program
- Proceedings on flash memory
- Bugs in published program... (~1 bug/NCNBKLOP)

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Nicollet Island



- William Bros Boiler Works, 1886
- Fire, rebuilt 1893
- Stone Arch Bridge
- 1858 Horseshoe-shaped Dam
 - First dam on built on the Mississippi River

- World's smallest suspension bridge
- Stone Arch bridge
- Strolling, sitting, viewing areas
- Large working lock



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Social Event

- Rich native American culture in the Minnesota area
 - Dakotah, Sioux, Cheyenne and Chippewa tribes
 - People you meet at the social event are native Americans
- Introduction to that culture:
 - History, lifestyle, entertainment, and cuisine
 - Authentic teepees, camp fires, traditional tribal camp in a village environment
 - Native American elders telling stories
 - Crafts & hand-crafted games
 - Tomahawk toss, archery, dancers
 - Trout fishing
- Fun and learning experience



Invitation

Two members of the Native American community here to address us:

- Joseph Campbell
 - Dakotah tribe
- Larry Yazzie
 - Meskwaki Indian Settlement

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Segways

- Available for brief tours of the island
- Programming contest:
 - Some Segways will have no software
 - Build control system starting at 6:00 p.m.
 - Full professors only



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Summary

- Buses running regularly starting at 5:30 p.m.
 - Short and pleasant walk if weather is fine
- Native American culture
- Segway tours
- Riverside park areas
- Indoor relaxation areas
- Variety of banquet items
- Dress casual

Something for everybody

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Awards

- At various points in the program
- ICSE 1997 Most Influential Paper
- ACM SIGSOFT Outstanding Research Award
- ACM SIGSOFT Distinguished Service Award
- ACM SIGBED/SIGSOFT Frank Anger Memorial Award
- ACM Fellows
- ACM SIGSOFT Distinguished Paper Awards
- IEEE Computer Society Harlan D. Mills Award
- IEEE-CS Fellows

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ACM SIGSOFT Outstanding Research Award

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Nicollet Mall



Downtown Skywalk



- Seven *miles* in length
- Connects several hotels, many stores, attractions, etc.
- Avoid traffic and weather
- Access on Hilton 2nd floor
- Try it, it is *terrific*

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22 Lakes Inside City



Mississippi River



- Working river
- Recreational center
- Nearby
- Wonderful facility for:
 - Jogging
 - Walking
 - Sitting
- Exit hotel, turn right
- Left at T junction
- Bridge on right

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Cell Phones



- ***Please turn off cell phones***
- This is an FAA requirement
- Cell phones interfere with the conference navigation systems
- You may use laptops and other electronic equipment once we reach our cruising altitude

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Today's Keynote

The Architecture of the Apex Platform, salesforce.com's Platform for Building On-Demand Applications

Steve Fisher

Senior Vice President of AppExchange
salesforce.com

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