

ICST 2008 Conference Program

Day 0: April 9, 2008

8:30 to 5:00 PM – *Workshops*

Day 1: April 10, 2008

7:00 AM to 8:15 AM – <i>Breakfast</i>			
8:30 AM to 10:00 AM	Weidemann 4 and 5	Welcome	<i>Lionel Briand, Simula Research Laboratory and University of Oslo</i>
		Keynote	Systematic verification and validation: The consequences of not managing software failure risks, <i>Annie Combelles, DNV IT Global Services COO, France</i>
10:00 AM to 10:30 AM – <i>Break</i>			

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Day 1 - 10:30 AM to 12:00 PM	Weidemann 3	Regular Track 1: Test assessment and fault localization-1 (Chair: Arnaud Gotlieb, France)	Efficient test data generation for variables with complex dependencies , <i>Armin Beer and Stefan Mohacsi, Siemens Austria</i>	
			Relationships between test suites, faults, and fault detection in GUI testing , <i>Jaymie Strecker and Atif Memon, University of Maryland, USA</i>	
			Structural testing executables , <i>Sebastien Bardin and Philippe Herrmann, CEA, LIST, France</i>	
	Weidemann 4	Regular Track 4: Testing Real-time systems (Chair: Manuel Nunez, Spain)	Traffic-aware stress testing of distributed real-time systems based on UML models in the presence of time uncertainty , <i>Vahid Garousi., University of Calgary, Canada</i>	
			Scheduling timed modules for correct resource sharing , <i>Cristina Seceleanu, Paul Pettersson, and Hans Hansson, Malardalen University, Sweden</i>	
			Testability of dynamic real-time systems: An empirical study of constrained execution environment implications , <i>Birgitta Lindstrom, University of Skovde, Sweden; Jeff Offutt George Mason University, USA; and Sten F. Andler, University of Skovde, Sweden</i>	
	Weidemann 5	Regular Track 5: Testing Web applications (Chair: James Miller, Canada)	State-based testing of Ajax web applications , <i>Alessandro Marchetto, Fondazione Bruno Kessler - IRST- Italy; Paolo Tonella, Fondazione Bruno Kessler - IRST- Italy; and Filippo Ricca, Unita' CINI at DISI - Italy</i>	
			A three-tiered testing strategy for cookies , <i>Andrew Tappenden and James Miller, University of Alberta, Canada</i>	
			Prioritizing user-session-based test cases for web application testing , <i>Sreedevi Sampath, University of Maryland, Baltimore County; Renee Bryce, University of Nevada, Las Vegas; Gokulanand Viswanath, University of Maryland, Baltimore County; Vani Kandimalla, University of Nevada, Las Vegas; and Gunes Koru, University of Maryland, Baltimore County, USA</i>	
	Noon - 1:15 PM – Lunch			

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Day 1 - 1:30 PM to 3:00 PM	Weidemann 3	Industry Track 1: Model Based testing (Chair: To be decided)	Model based testing of system requirements using UML use case models , <i>Bill Hasling, Siemens, USA; Helmut Goetz, and Klaus Beetz, Siemens, Germany</i>
			Test instrumentation and pattern matching for automatic failure identification , <i>Dan Trivison and Geoff Staneff, Microsoft Corporation, USA</i>
			Comparing aspects with conventional techniques for increasing testability , <i>Jani Metsa, Nokia Corporation; Mika Katara, and Tommi Mikkonen, Tampere University of Technology, Finland</i>
			Test data provision for ERP systems , <i>Sebastian Wieczorek, Alin Stefanescu, SAP Research; and Ina Schieferdecker, TU Berlin/Fraunhofer FOKUDS, Germany</i>
	Weidemann 4	Regular Track 2: Test assessment and fault localization-2 (Chair: Jeff Offutt, USA)	Generation of all-paths unit test with function calls , <i>Patricia Mouy, Bruno Marre, Nicky Williams, and Pascale Le Gall, CEA, LIST, France</i>
			A crosstab-based statistical method for effective fault localization , <i>Eric Wong, Tingting Wei, Lei Zhao, and Yu Qi, University of Texas, Dalla, USA</i>
			Mutation Testing for Aspect-Oriented Programs , <i>Fabiano Cutigi Ferrari, University of Sao Paulo, Brazil and Lancaster University, UK; Jose Carlos Maldonado, ICMC-USP, Brazil; and Awais Rashid, Lancaster University, UK</i>
	Weidemann 5	Student Track 1: Test and validation- 1 (Chair: Henry Muccini, Italy)	Distributed in Vivo testing of software applications , <i>Matt Chu, Christian Murphy, and Gail Kaiser, Columbia University, USA</i>
			A methodology for UML models V&V , <i>Andrea Baruzzo and Marco Comini., University of Udine, Italy</i>
			Quality of automatically generated test cases based on OCL expressions , <i>Stephan Weißleder, Humboldt-Universitaet zu Berlin; and Holger Schlingloff. Fraunhofer FIRST and Humboldt University, Germany</i>
			Improving automated testing of multi-threaded software , <i>Ayla Dantas, Francisco Brasileiro, and Walfredo Cirne, Laboratorio de Sistemas Distribuidos, Universidade Federal de Campina Grande, Brazil</i>
	3:00 PM to 3:30 PM – Break		

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Day 1 - 3:30 PM to 5:00 PM	Weidemann 3	Industry Track 2: Test Process, organization, and tools (Chair: Clay Williams, USA)	Selective homeworkless review , <i>Eitan Farchi and Shmuel Ur, IBM HRL, Israel</i>
			Designing and building a software test organization , <i>Bruce Benton, Microsoft, Denmark</i>
			Challenges and solutions in test staff relocations within a software consultancy company , <i>Daniel Larsson, TestCenter, Cybercom South AB; Robert Feldt, Blekinge Inst of Tech; and Håkan Bertilsson, TestCenter, Cybercom South AB, Sweden</i>
			The role of stability testing in heterogeneous application environment , <i>Krzysztof Rogoz and Thomasz Padlo, Motorola Inc., Poland</i>
	Weidemann 4	Regular Track 3: Test assessment and fault localization-3 (Chair: Yves Le Traon, France)	Evaluating automated unit testing in SULU , <i>Roy Patrick Tan and Stephen Edwards, Virginia Tech, USA</i>
			On the predictability of random tests for object-oriented software , <i>Ilinca Ciupa, Alexander Pretschner, Andreas Leitner, Manuel Oriol, and Bertrand Meyer, ETH Zurich, Switzerland</i>
			Less is more: A minimalistic approach to UML model-based conformance test generation , <i>Amit Paradkar, Matthew Kaplan, Tim Klinger, Avik Sinha, Clay Williams, and Cemal Yilmaz, IBM, USA</i>
	Weidemann 5	Student Track 2: Test and validation- 2 (Chair: Benoit Baudry , Session ends at 5:10 PM)	Functional search-based testing from state machines , <i>Raluca Lefticaru and Florentin Ipate, University of Pitesti, Romania</i>
			Verifying and analyzing adaptive logic through UML state models , <i>Andres Ramirez and Betty Cheng, Michigan State University, USA</i>
			Statistical sampling based approach to alleviate log replay testing , <i>Ravidutta Kodre, Hadar Ziv, and Debra Richardson, University of California, Irvine, USA</i>
			A fitness function to find feasible sequences of method calls for evolutionary testing of object-oriented programs , <i>Myoung Kim and Yoonsik Cheon, The University of Texas at El Paso, USA</i>
			A JML compiler based on AspectJ , <i>Henrique Rebelo, Ricardo Lima, Marcio Cornelio, and Sergio Soares, Computing Systems Department, UPE, Brazil</i>
	Social Event:		
	<p>5:45 PM: Meet in the hotel reception for departure to Maihaugen outdoor museum, 10 minutes walk from the conference hotel. Remember to bring clothes and footwear appropriate for the weather.</p> <p>6:00 PM to 7:45 PM: Guided tour at Maihaugen outdoor museum. Snack and drinks will be served.</p> <p>9:00 PM: Conference dinner at the conference hotel</p>		

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Day 2: April 11, 2008

7:00 AM to 8:45 AM – Breakfast		
9:00 AM to 10:30 AM	Weidemann 4 and 5	Best paper awards
		Keynote
Testing of Evolving Software: Achievements, Challenges, and Promises, Mary Jean Harrold, Georgia Institute of Technology, USA		
10:30 AM to 11:00 AM – Break		

Day 2 - 11:00 AM to 12:30 PM	Weidemann 3	Industry Track 3: Testing specialized software (Chair: Hasan Ural, Canada)	Testing Predictive Software in Mobile Devices, Raghunath Vemuri, Motorola Inc., India
			A script-based testbed for mobile software frameworks, Walter Hargassner, Thomas Hofer, Claus Klammer, Josef Pichler, Software Competence Center Hagenberg GmbH and Gernot Reisinger, COMNEON electronic technology GmbH & Co. OHG, Germany
			Automation method for testing XML/DB/XML layer, Debarshi Raha and Mohan Jadhav, IBM, India
			An industrial case study of bypass testing on web applications, Jeff Offutt, Qingxiang Wang, George Mason University; and Joann Ordille, Avaya Research Labs, USA
	Weidemann 4	Regular Track 6: Regression testing and OO testing-1 (Chair: Marc Roper, Scotland)	Trace-based reflexive testing of OO programs, Wishnu Prasetya, Utrecht University, Netherlands; Tanya Vos, and Arthur Baars, Instituto Tecnológico de Informatica, Univ. Polit. de Valencia, Spain
			Relation between depth of inheritance tree and number of methods to test, Muhammad Rabee Shaheen, LIG - Universitas de Grenoble; and Lydie De Bousquet, LSR-IMAG, France
			Testing consequences of grime buildup in object oriented design patterns, Clemente Izurieta and James Bieman, Colorado State University, USA
	Weidemann 5	Regular Track 12: Model based testing-3 (Chair: Erik Arisholm, Norway)	Model-based tests for access control policies, Alexander Pretschner, ETH Zurich, Switzerland; Tejedine Mouelhi, ENST Bretagne, Rennes; and Yves Le Traon, ENST Bretagne, GET, France
			Generating Test requirements for the service connections based on the layers of SOA, Hoijin Yoon, Hyupsung University; Eun Mi Ji, and Byoungju Choi, Ehwa Womans University, South Korea
			Detecting and repairing inconsistencies across heterogeneous models, Dimitrios S. Kolovos, Richard Paige, and Fiona Polack, University of York, UK
	12:30 PM to 2:00 PM: Lunch		

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Day 2 - 2:00 PM to 3:30 PM	Weidemann 3	Regular Track 7: Model based testing-1 (Chair: Alexander Pretschner, Switzerland)	Contract-based verification for aspect-oriented refactoring , Naoyasu Ubayashi, Jinji Piao, and Suguru Shinotsuka, <i>Kyushu Institute of Technology</i> ; and Tetsuo Tamai, <i>University of Tokyo, Japan</i>
			Testing Java components based on algebraic specifications , Bo Yu, Liang Kong, Yufeng Zhang, <i>National University of Defense Technology</i> ; and Hong Zhu, <i>Oxford Brooks University, UK</i>
			UML activity diagram based testing of Java concurrent programs for data race and inconsistency , Bin Lei, Linzhang Wang, and Xuandong Li, <i>Nanjing University, China</i>
	Weidemann 4	Regular Track 8: Test process and tools-1 (Chair: Per Runeson, Sweden)	Testing grid application workflows using TTCN-3 , Jens Grabowski, Helmut Neukirchen, and Thomas Rings, <i>University of Gottingen, Germany</i>
			Mining software repositories to study co-evolution of production & test code , Andy Zaidman, <i>TUY Delft, Netherlands</i> ; Bart Van Rompaey, Serge Demeyer, <i>University of Antwerp, Belgium</i> ; and Arie van Deursen, <i>Delft University of Technology, Netherlands</i>
			The use of intra-release product measures in predicting release readiness , M.P. Ware, F.G. Wilkie, and M. Shapcott, <i>University of Ulster, UK</i>
	Weidemann 5	Regular Track 11: Model based testing-2 (Chair: Christophe Gaston, France)	Extended finite state machine based test derivation driven by user defined faults , Khaled El-Fakih, <i>Verimag, France</i> American U of Sharjah UAE; Anton Kolomeez, Svetlana Prokopenko, and Nina Yevtushenko, <i>Tomsk State University, Russia</i>
			Simulation of multi-formalism models with ModHelX , Frederic Boulanger and Cecile Hardebolle, <i>Supelec, France</i>
			On combining multi-formalism knowledge to select models for model transformation testing , Sagar Sen, <i>McGill University, Canada</i> ; Benoit Baudry, <i>INRIA</i> ; and Jean-Marie Mottu, <i>IRISA/INRIA, France</i>
3:30 PM to 4:00 PM – Break			

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Day 2 - 4:00 PM to 5:30 PM	Weidemann 3	Industry Track 4: Test, validation, and fault localization (Chair: Wolfgang Grieskamp, USA, Session ends at 4:45 PM)	Pre-testing flash device driver through model checking techniques , <i>Moonzoo Kim, CS Dept. Korean Advanced Institute of Science and Technology; Yunja Choi, Kyungpook National University; Yunho Kim, CS dept. KAIST; and Hotae Kim, Software Laboratories Samsung Electronics, South Korea</i>
	Model-based testing of automotive systems , <i>Eckard Bringmann, and Andreas Kramer, PikeTec GmbH, Germany</i>		
	Weidemann 4	Regular Track 10: Regression testing and OO testing-2 (Chair: Phil McMinn, UK)	Empirical software change impact analysis using singular value decomposition , <i>Mark Sherriff, University of Virginia; and Laurie Williams, North Carolina State University, USA</i>
	An empirical study on Bayesian network-based approach for test case prioritization , <i>Siavash Mirarab and Ladan Tahvildari, University of Waterloo, Canada</i>		
	A metamodel for object-oriented software metrics: An analysis using alloy , <i>Jacqueline McQuillan and James Power, National University of Ireland, Ireland</i>		
	Automated Repair of Session Data to Improve Web Application Regression Testing , <i>Nadia Alshahwan National Company for Cooperative Insurance, Saudi Arabia; and Mark Harman, Kings College London, UK</i>		
	Weidemann 5	Regular Track 9: Test process and tools-2 (Chair: Amit Paradkar, USA)	Test-driven assessment of access control in legacy application , <i>Yves Le Traon, Tejeddine Mouelhi, ENST Bretagne – GET, France; Alexander Pretschner, ETH Zurich, Switzerland; and Benoit Baudry, INRIA, France</i>
	An evaluation of two bug pattern tools for Java , <i>Stefan Wagner, Florian Deissenboeck, TU Muenchen; Michael Aichner, beck et al. projects GmbH; Johann Wimmer, Cirquent GmbH; and Markus Schwalb, MobileX, Germany</i>		
	Tool support for expert-centred code assessments , <i>Reinhold Ploesch, Harold Gruber, Gustav Pomberger, Johannes Kepler University, Austria; Matthias Saft, Siemens AG, Germany; and Stefan Schiffer</i>		

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Day 2 - 4:45 PM to 5:45 PM	Weidemann 3	Industry Track 5: Test and validation [Short papers] (Chair: Joseph Holman, USA)	<p>How to test the intangible properties of graphical user interfaces, <i>Josef Pichler and Rudolf Ramler, Software Competence Center Hagenberg GmbH, Austria</i></p> <p>Workflow Inspector – A test tool for Microsoft workflow foundation, <i>Alexander Lechner, Telekom Austria/world-direct; and Ruth Breu, Research Group Quality Engineering, Austria</i></p> <p>Model-based quality assurance of windows protocol documentation, <i>Wolfgang Grieskamp, Microsoft Research; Dave MacDonald, Nico Kicillof, Alok Nandan, Keith Stobie, and Fred Wurden, Microsoft, USA</i></p> <p>The test manager drives the project to a win, <i>Fabian Scarano, PA consulting, Denmark</i></p>
Day 2 - 5:45 PM	Weidemann 4 and 5	<i>Open Steering Committee Meeting</i>	