

ICSP 2009 Program

May 16

Time	Item
9:00-9:30	Welcome & Logistics & Program
9:30-10:30	<p>Keynote 1</p> <p>Speaker: <i>Guenter Ruhe</i>, University of Calgary</p> <p>Title: Decision Processes for Trustworthy Software</p> <p>Room: Oak</p>
10:30-11:00	Break
11:00-12:30	<p>Parallel Session A1</p> <p>Process Modeling and Representation</p> <p>Chair: <i>Jürgen Münch</i> (Fraunhofer Institute for Experimental Software Engineering, Germany)</p> <p>Room: Oak 1</p> <p>"A Process-Oriented Approach for the Optimal Satisficing of Non-functional Requirements"</p> <p><i>Christopher Burgess, Aneesh Krishna</i></p> <p>Decision Systems Laboratory, School of Computer Science & Software Engineering, University of Wollongong, Australia</p> <p>"Process Trustworthiness as a Capability Indicator for Measuring and Improving Software Trustworthiness"</p> <p><i>Ye Yang, Qing Wang, Mingshu Li</i></p> <p>Lab for Internet Software Technology, Institute of Software Chinese Academy of Sciences, China</p> <p>"A Pattern for Modeling Rework in Software Development Processes"</p> <p><i>Aaron G. Cass, Leon J. Osterweil, Alexander Wise</i></p> <p>Department of Computer Science, Union College, USA</p> <p>Department of Computer Science, University of Massachusetts Amherst, USA</p> <p>Parallel Session B1</p> <p>Process Analysis</p> <p>Chair: <i>Dan Houston</i> (The Aerospace Corporation, USA)</p> <p>Room: Oak 2</p> <p>"Evaluating the Perceived Effect of Software Engineering Practices in the Italian Industry"</p> <p><i>Evgenia Egorova, Marco Torchiano, Maurizio Morisio</i></p> <p>Politecnico di Torino, corso Duca degli Abruzzi 24, 10129 Turin, Italy</p> <p>"Process Aspect: Handling Crosscutting Concerns during Software Process Improvement"</p> <p><i>Jia-kuan Ma, Lei Shi, Ya-sha Wang, Hong Mei</i></p> <p>Key Laboratory of High Confidence Software Technologies, Ministry of Education, School of Electronics Engineering and Computer Science, Peking University, Beijing, 100871, China</p>

"Stochastic Process Algebra Based Software Process Simulation Modeling"

Jian Zhai, Qiusong Yang, Feng Su, Junchao Xiao, Qing Wang, Mingshu Li

Laboratory for Internet Software Technologies, Institute of Software, The Chinese Academy of Sciences, Beijing, China

Key Laboratory for Computer Science, The Chinese Academy of Sciences, Beijing, China

Graduate University of Chinese Academy of Science, Beijing, China

12:30-14:00

Lunch

14:00-15:30

Parallel Session A2

Process Modeling and Representation

Chair: *Jacky Estublier* (LIG, France)

Room: Oak 1

"Modeling Software Evolution with Game Theory"

Vibha Sazawal, Nikita Sudan

UM Institute for Advanced Computing Studies (UMIACS), University of Maryland, USA

"Achieving On-Time Delivery: A Two-Stage Probabilistic Scheduling Strategy for Software Projects"

Xiao Liu, Yun Yang, Jinjun Chen, Qing Wang, Mingshu Li

Faculty of Information and Communication Technologies, Swinburne University of Technology, Hawthorn, Melbourne, Australia

Laboratory for Internet Software Technologies, Institute of Software, Chinese Academy of Sciences, China

"Incremental Process Modeling through Stakeholder-based Hybrid Process Simulation"

Xu Bai, Liguo Huang, Supannika Koolmanojwong

Southern Methodist University, USA

Center for Systems and Software Engineering, University of Southern California, Los Angeles, USA

Parallel Session B2

Process Simulation Modeling

Chair: *Qing Wang* (Institute of Software, Chinese Academy of Sciences, China)

Room: Oak 2

"Dynamic COQUALMO: Defect Profiling over Development Cycles"

Dan Houston, Douglas Buettner¹, Myron Hecht

The Aerospace Corporation, Los Angeles, California, USA

"On the Relative Merits of Software Reuse"

Andres Orrego, Tim Menzies, Oussama El-Rawas

Global Science & Technology, Inc., Fairmont, WV, USA

West Virginia University, Morgantown, WV, USA

"Investigating the Gap between Quantitative and Qualitative/Semi-quantitative Software Process Simulation Models: An Explorative Study"

He Zhang

Lero - The Irish Software Engineering Research Centre, Department of Computer Science and Information Systems, University of Limerick, Ireland

15:30-16:00

Break

16:00-17:00

Parallel Session A3

Process Modeling and Representation

Chair: *Tim Menzies* (West Virginia University, USA)

Room: Oak 1

"Analyzing a Software Process Model Repository for Understanding Model Evolution"

Martín Soto, Alexis Ocampo, Jürgen Münch

Fraunhofer Institute for Experimental Software Engineering, Germany

"Structural Considerations in Defining Executable Process Models"

Borislava I. Simidchieva, Leon J. Osterweil, Alexander Wise

Laboratory for Advanced Software Engineering Research (LASER), Department of Computer Science, University of Massachusetts Amherst, Amherst MA, USA

Parallel Session B3

Process Simulation Modeling

Chair: *Ye Yang* (Institute of Software, Chinese Academy of Sciences, China)

Room: Oak 2

"A Hybrid Model for Dynamic Simulation of Custom Software Projects in a Multiproject Environment"

Javier Navascués, Isabel Ramos, Miguel Toro

Universidad de Sevilla, Departamento de Organización Industrial y Gestión de Empresas, Av. Descubrimientos s/n, 41092 Sevilla, Spain

Universidad de Sevilla, Departamento de Lenguajes y Sistemas Informáticos, Av. Reina Mercedes s/n, 41011 Sevilla, Spain

"Combining Aspect and Model-Driven Engineering Approaches for Software Process Modeling and Execution"

Reda Bendraou, Jean-Marc Jezéquel, Franck Fleurey

University Pierre & Marie Curie, France

INRIA-Rennes Bretagne Atlantique, Campus de Beaulieu, France

IRISA, Université Rennes 1, Campus de Beaulieu, F-35042 Rennes Cedex, France

SINTEF, Oslo

17:50-22:00

CONFERENCE DINNER

(For more details, please see the schedule on the bottom of the program)

May 17

Time	Item
8:30-9:30	<p>Keynote 2</p> <p>Speaker: <i>Lionel Briand</i>, Simula Research Laboratory, University of Oslo</p> <p>Title: System Engineering in the Energy and Maritime Sectors: Towards a Solution Based on Model-Centric Processes</p> <p>Room: Oak</p>
9:30-10:30	<p>Keynote 3</p> <p>Speaker: <i>Richard W. Selby</i>, Northrop Grumman Space Technology</p> <p>Title: Synthesis, Analysis, and Modeling of Large-Scale Mission-Critical Embedded Software Systems</p> <p>Room: Oak</p>
10:30-11:00	Break
11:00-12:30	<p>Parallel Session A4</p> <p>Process Modeling and Representation</p> <p>Chair: <i>Vahid Garousi</i> (University of Calgary, Canada)</p> <p>Room: Oak 1</p> <p>"A process for driving process improvement in VSEs"</p> <p><i>Francisco J. Pino, Julio Ariel Hurtado Alegría, Juan Carlos Vidal, Félix García, Mario Piattini</i></p> <p>IDIS Research Group – Electronic and Telecommunications Engineering Faculty, University of Cauca, Colombia.</p> <p>Faculty of Engineering and Business, University of Ciencias de la Informática, Santiago, Chile</p> <p>Alarcos Research Group – Institute of Information Technologies & Systems. University of Castilla-La Mancha, Ciudad Real, Spain</p> <p>"Incrementally Introducing Process Model Rationale Support in an Organization"</p> <p><i>Alexis Ocampo, Jürgen Münch, William E. Riddle</i></p> <p>Fraunhofer Institute for Experimental Software Engineering, Germany</p> <p>Solution Deployment Affiliates, USA</p> <p>"A System Dynamics Model That Simulates A Significant Late Life Cycle Manpower Increase Phenomenon"</p> <p><i>Douglas J Buettner</i></p> <p>The Aerospace Corporation, USA</p> <p>Parallel Session B4</p> <p>Experience Report</p> <p>Chair: <i>Lee Osterweil</i> (University of Massachusetts Amherst, USA)</p> <p>Room: Oak 2</p> <p>"Bridge the Gap between Software Test Process and Business Value: a Case Study"</p> <p><i>Qi Li, Mingshu Li, Ye Yang, Qing Wang, Thomas Tan, Barry Boehm, Chenyong Hu</i></p> <p>University of Southern California, USA</p> <p>Institute of Software, Chinese Academy of Sciences, China</p>

"Technical Software Development Process in the XML Domain"

Liming Zhu, Tu Tak Tran, Mark Staples, Ross Jeffery

NICTA, Australian Technology Park, Eveleigh, NSW, Australia

School of Computer Science and Engineering, University of New South Wales, Australia

"Subcontracting Processes in Software Service Organisations - An Experience Report"

Jakub Rudzki, Tarja Systa, Karri Mustonen

Solita Oy, Satakunnankatu 18 A, 33210 Tampere, Finland

Tampere University of Technology, Finland

12:30-14:00

Lunch

14:00-15:30

Parallel Session A5

Process Tools

Chair: *Thomas Birkhoelzer* (University of Applied Sciences Konstanz, Germany)

Room: Oak 1

"Distributed Orchestration versus Choreography:The FOCAS Approach"

Gabriel Pedraza, Jacky Estublier

LIG, 220 rue de la Chimie, BP53, 38041 Grenoble Cedex 9, France

"An Architecture for Modeling and Applying Quality Processes on Evolving Software"

Fadrian Sudaman, Christine Mingins, Martin Dick

Faculty of IT, Monash University, Australia

"Meta Model Based Architecture for Software Process Instantiation"

Peter Killisperger, Markus Stumptner, Georg Peters, Georg Grossmann, Thomas St?uckl

Competence Center Information Systems, University of Applied Sciences -M?unchen, Germany; Advanced Computing

Research Centre, University of South Australia, Adelaide, Australia

Advanced Computing Research Centre, University of South Australia, Adelaide,Australia

Department of Computer Science and Mathematics, University of Applied Sciences, - M?unchen, Germany

System and Software Processes, Siemens Corporate Technology, M?unchen, Germany

Parallel Session B5

Process Management

Chair: *LiGuo Huang* (Southern Methodist University, USA)

Room: Oak 2

"Value-based Multiple Software Projects Scheduling with Genetic Algorithm"

Junchao Xiao, Qing Wang, Mingshu Li, Qiusong Yang, Lizi Xie, Dapeng Liu

Laboratory for Internet Software Technologies, Institute of Software, Chinese Academy of Sciences, China

Key Laboratory for Computer Science, Institute of Software, Chinese Academy of Sciences, China

"Overcoming the First Hurdle:Why Organizations Do Not Adopt CMMI"

Nazrina Khurshid, Paul L Bannerman, Mark Staples

NICTA, Australian Technology Park, Eveleigh, NSW, Australia

School of Computer Science and Engineering, University of NSW, Australia

"The How? When? and What? for the Process of Re-Planning for Product Releases" ?

Anas Jadallah, Ahmed Al-Emran, Mahmoud Moussavi, Guenther Ruhe

Department of Electrical & Computer Engineering, Schulich School of Engineering, University of Calgary, Canada

Department of Computer Science, University of Calgary, Canada

Expert Decisions Inc, Calgary, Canada

15:30-16:00

Break

16:00-17:30

Parallel Session A6

Process Metrics

Chair: *Ray Madachy* (University of Southern California, USA)

Room: Oak 1

"Predicting Upgrade Project Defects based on Enhancement Requirements: An Empirical Study"

Lei He, Juan Li, Qing Wang, Ye Yang

Institute of Software, Chinese Academy of Sciences, China

Graduate University of Chinese Academy of Sciences, China

"Software Product Quality: Ensuring a Common Goal"

Sebastian Barney, Claes Wohlin

School of Engineering, Blekinge Institute of Technology, Sweden

Parallel Session B6

Chair: *Dietmar Pfahl* (Simula Research Laboratory, Norway)

Room: Oak 2

Experience Report:

"On Reducing the Pre-release Failures of Web Plug-in on Social Networking Site"

Xingliang Yu, Jing Li, Hua Zhong

Institute of Software, Chinese Academy of Sciences, China

Graduate University of Chinese Academy of Sciences, China

Process Management:

"Statistically Based Process Monitoring: Lessons from the Trench"

Maria Teresa Baldassarre, Nicola Boffoli, Giovanni Bruno, Danilo Caivano

Department of Informatics, University of Bari , Italy

Process Analysis:

"Evidence-based Insights about Issue Management Processes: An Exploratory Study"

Vahid Garousi

Software Quality Engineering Research Group (SoftQual)

Department of Electrical and Computer Engineering, Schulich School of Engineering, University of Calgary, Canada

The schedule for the conference dinner on May 16th

17:50-18:00	Boarding the buses from the Westin downtown hotel's main entrance
18:00 (sharp)	The bus leaves to the Plaza of nations
Around 18:15	The bus with the guests will arrive in the boat's docking station
18:15-18:30	Guests boarding the boat
8:30 (sharp)	Boat will start the cruise
21:30 (sharp)	Cruise ends
21:30-21:45	Boarding the bus back to the Westin downtown hotel
1:45 (sharp)	The bus leaves
Around 22:00	The bus arrives at the Westin downtown hotel

Note: We will cruise with a boat named "Gulfstream II". More info/pictures: <http://www.vancouvercruises.com/theboats/gulfstream.cfm>