CONFERENCE PROGRAM

29th Annual International Computer Software and Applications Conference

COMPSAC 2005

Edinburgh, Scotland, July 26 – 28, 2005


COMPSAC is the major international forum for researchers, practitioners, managers, and policy makers interested in computer software and applications. The program includes keynote addresses, original research papers, panel discussions, fast abstracts and four participative workshops.

Program At-a-Glance

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CONFERENCE VENUE:
All technical sessions are held in William Robertson Building, University of Edinburgh

ACKNOWLEDGEMENT:
Our appreciation to MOTOROLA for sponsoring the conference reception and the banquet.

SOCIAL EVENTS
Pre-Conference Reception: 7:30 pm, Monday, July 25
Playfair Library Hall, Old College, University of Edinburgh

Conference Reception: 7:00 pm, Tuesday, July 26
The Edinburgh Castle
Conference Banquet: 7:00 pm, Wednesday, July 27
Our Dynamic Earth, Edinburgh

Buses will be provided to take guests from/to the Novotel Hotel and Pollock Halls from the conference reception on July 26 and banquet on July 27. Leave Novotel Hotel and Pollock Halls at 6:15 p.m.
Tuesday July 26, 2005

Welcome and Remarks: General Chair: Malcolm Atkinson, University of Edinburgh and the National e-Science Centre, UK

Greetings and Remarks: Standing Committee Chair: Stephen S. Yau, Arizona State University, USA

Additional Remarks: Incoming Standing Committee Chair: Carl Chang, Iowa State University, USA

Program Overview: Program Co-Chairs: Ing-Ray Chen, Virginia Tech, USA; Roland N. Börjert, UK; Vincent Albrecht, Duke University, and Hong Mei, Peking University, China

Keynote Address (1): Market Forces and Software Assurance, Robert Berry, CTO for Messaging Technology, IBM, UK

10:30-11:00 Coffee Break

11:00-12:30 Parallel Sessions

Session 1: SOFTWARE TESTING (1) (Seminar Room 11)
Chair: Hongoi Yang, De Montfort University, UK

- Incremental Class Testing from a Class Test Order, Yvan Labiche, Carleton University, Canada
- Configuration-Oriented Symbolic Test Sequence Construction Method for EFSM, Shuhao Li, Ji Wang, Xin Wang and Zhi-Chang Qi, National Laboratory for Parallel and Distributed Processing, China
- Iterative Metamorphic Testing, Peng Wu, Chinese Academy of Sciences, China
- Software Test Selection Patterns and Elusive Bugs, William E. Howden, University of California at San Diego, USA

Session 2: PROCESS MANAGEMENT (Room G01)
Chair: Doo-Hwa Bae, KAIST, Korea

- DGT: A Tool for Software Process Data Extraction and Grooming, Scott D. Mathur, Aditya P. Mathur, and Raymonde A. DeCarlo, Purdue University, USA
- A Defect Estimation Approach for Sequential Inspection using a Modified Capture-Recapture Model, Ching-Pang Chang, Jia-Lyn Lv, Chih-Ping Chu, National Cheng Kung University, Taiwan
- Parallel Changes: Detecting Semantic Interferences, G. Lorenzo Thione, FX Palo Alto Laboratory, and Dewanye E. Perry, University of Texas at Austin, USA

Session 3: SOFTWARE ARCHITECTURE AND METRIC (Room G02)
Chair: Carl Chang, Iowa State University, USA

- A Productivity Metric Based on Statistical Pattern Recognition, Yvan Labiche, Carleton University, Canada
- Adaptive Testing, Oracle Generation, and Test Script Ranking for Web Services, Ichiro Tabuchi, University of Texas at Dallas, USA
- Increased Class Testing from a Class Test Order, Yvan Labiche, Carleton University, Canada
- Structure Analysis for Dynamic Software Architecture based on Spatial Logic, Tingting Han, Taohue Chen, Jian Lu, Nanjing University, China
- Performance Analysis of a Pipeline Software Architecture, Swapna S. Gokhale, University of Connecticut, USA, and Sherif Yacoub, HP Labs, Spain

Session 4: PANEL: HIGH ASSURANCE SOFTWARE FOR MOBILE TELEHEALTH SYSTEMS (Lecture Theatre)
Moderator: Lacal Jose, Motorola, USA
Panelists: Francisco Del Pezo, Ciudad Universitaria, Spain
Robert S. H. Istepanian, Kingston University, UK
Douglas J. McClure, Partners Healthcare System, USA

12:30-14:00 Lunch Break
14:00-15:30 Parallel Sessions

Session 5: SOFTWARE RE-ENGINEERING AND SERVICE-BASED SYSTEMS (Room G01)
Chair: Bruce M. MicMillin, University of Missouri-Rolla, USA

- An Extended Approach to Improving the Semantic Interrogation among Reuse Repositories, Ying Pan, Lei Wang, Bing Xie, and Faqiuang Yang, Peking University, China
- An Empirical Study of a Reverse Engineering Method for the Aggregation Relationship Based on Operation Propagation, Downing Yeh, Pei-Chen Sun, National Kaohsiung Normal University, William Chu, Tong-Hui University, Chien-Lung Lin, Siliconware Precision Industries, Taiwan, and Hongji Yang, De Montfort University, UK
- Adaptive Testing, Operation Generation, and Test Script Ranking for Web Services, Wei-Tek Tsai, Yicheng Chen, Arizona State University, Ray Paul, Department of Defense, Hai Huang, Xinzu Chou, and Xiao Wei, Arizona State University, USA
- Situation-awareness for Adaptable Service Coordination in Service-based Systems, S. S. Yau, D. Huang, H. Gong, and H. Davulcu, Arizona State University, USA

Session 6: MIDDLEWARE AND AGENT-BASED SYSTEMS (Room G02)
Chair: Dengguo Feng, Institute of Software, Chinese Academy of Science, China

- Self-Configuring Communication Middleware for Multiple Network Interfaces, Nader Mohamed, Stevens Institute of Technology, USA
- Using Aspect Oriented Techniques to Support Separation of Concerns in Model Driven Development, Nils-Arild Soelberg, SINTEF, Norway, and Devon Simmonds, Raghia Reddy, Sudipto Ghosh, and Robert France, Colorado State University, USA
- Agent Oriented Programming based on SLABS, Ji Wang and Rui Shen, National Laboratory for Parallel and Distributed Processing, China, and Hong Zhu, Oxford Brooks University, UK
- Intention Scheduling for BDI Agent Systems, Shung-Bing Yan, Zu-Nien Lin, Hsun-Jen Hsu, and Feng-Jian Wang, National Chiao Tung University, Taiwan

Session 7: SECURITY AND PRIVACY (1) (Seminar Room 11)
Chair: Bhavani Thuraisingham, University of Texas at Dallas, USA
- Detecting Intrusions Specified in a Software Specification Language, Mohammad Forozai Riahi and Mohammad Zulkernine, Queen’s University, Canada
- SecureC: Control-flow Protection against General Buffer Overflow Attack, Hiroyasu Nishiyama, HITACHI, Japan
- Buffer Overflow Prevention through Component Composition Analysis, David Llewellyn-Jones, Madjid Merabti, Qi Shi, and Bob Ashworth, Liverpool John Moores University, UK

- Efficiently Managing Security Concerns in Component Based System Design, Ammar Masoud, Purdue University, Sahra Sedighi-Al, University of Missouri at Rolla, and Arif Ghafoor, Purdue University, USA

Session 8: PANEL: INDUSTRY AND ACADEMIA: CAN THEY AGREE ON BEST PRACTICE WITHIN SOFTWARE ENGINEERING? (Lecture Theatre)
Moderator: Barrie Thompson, University of Sunderland, UK
Panelists: Maarten Bousson, University of Amsterdam, Netherlands
Dick Simmons, Texas A&M University, USA
Steven Chen, Motorola, USA
Pierre Bourque, École de Technologie Supérieure, Canada

15:30-16:00 Coffee Break

16:00-17:30 Parallel Sessions

Session 9: REQUIREMENT AND DESIGN (1) (Room G01)
Chair: Feng-Jian Wang, Peking University, China

- A Formal Approach to Designing Class-structures, Sukhmay Kundu, Louisiana State University, and Nigel Gwee, Southern University, USA
- A Family of Extended Fuzzy Description Logics, Yanhui Li, Baowen Xu, Jianjiang Lu, Daohou Kang, and Jiaxiang Jiang, Southeast University, China
- Extended Symbolic Transition Graphs with Assignment, WeiJing Deng and HaiMin Lin, Chinese Academy of Sciences, China
- MetaWSL and Meta-Transformations in the FermaT Transformation System, Martin Ward and Hussein Zedan, De Montfort University, UK

Session 10: FORMAL METHOD (Room G02)
Chair: Qianxiang Wang, Peking University, China

- Using AOP to Monitor and Administer Software for Grid Computing Environments, Mark Grechanik, Dewanye E. Perry, and Don Batory, University of Texas at Austin, USA
- Nearby Neighbor Queries on Extensible Grid Files Using Dimensionality Reduction, Ryoosuke Miyoshi, and Takao Miura, Hosei University, and Isamu Shioya, SANNNO University, Japan
- Power Transmission Control Using Distributed Max Flow, A. Armbruster, M. Gossnell, B. McMillin, and M. L. Cross, University of Missouri-Rolla, USA

Session 11: NETWORK, DISTRIBUTED, AND EMBEDDED SYSTEMS (1) (Seminar Room 11)
Chair: Robert S. H. Istepanian, Kingston University, UK

- Using AOP to Monitor and Administer Software for Grid Computing Environments, Mark Grechanik, Dewanye E. Perry, University of Texas at Austin, USA
- Detecting Intrusions Specified in a Software Specification Language, Mohammad Forozai Riahi and Mohammad Zulkernine, Queen’s University, Canada
- SecureC: Control-flow Protection against General Buffer Overflow Attack, Hiroyasu Nishiyama, HITACHI, Japan
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- Efficiently Managing Security Concerns in Component Based System Design, Ammar Masoud, Purdue University, Sahra Sedighi-Al, University of Missouri at Rolla, and Arif Ghafoor, Purdue University, USA

Session 12: PLANNING MEETING FOR COMPSAC 2006 (Lecture Theatre)

18:30- Conference Reception

Wednesday July 27, 2005

09:00-10:30 Plenary Panel Session: Security and Privacy in Distributed Collaborative Systems (Lecture Theatre)
Chair: Stephen S. Yau, Arizona State University, USA
Panelists: Piero A. Bonatti, University of Napoli “Federico II”, Italy
Dengguo Feng, Institute of Software, Chinese Academy of Science, China
Bhavani Thuraisingham, University of Texas at Dallas, USA

10:30-11:00 Coffee Break

11:00-12:30 Parallel Sessions

Session 13: INTERNET WEB SYSTEMS (Room G01)
Chair: Eric Wong, University of Texas at Dallas, USA

- Tree-map Visualization for Web Accessibility, John Bailey and Liz Burd, University of Durham, UK
- On Personal Data License Design and Negotiation, Yuh-Geer Jong, Cheng Yen, Chung-Tang Huang, Yi-Jhan Huang, National Taiwan University, Taiwan
- Adapting Single-Request/Multiple-Response Messaging to Web Services, Michael Ruth, Feng Lin, and Shengru Tu, University of New Orleans, USA
- Web Data Extraction Description Language and its Implementation, I-Chen Wu, Jui-Yuan Su, National Chiao Tung University, and Leong-Beon Chen, Tunghai University, Taiwan

Session 14: VERIFICATION AND VALIDATION (Room G02)
Chair: William Howden, University of California at San Diego, USA

- A Block-based Approach to Protocol Validation, Yu Lei, David Kung, and Qizhi Ye, University of Texas at Arlington, USA
Session 15: PANEL: MODEL-BASED SOFTWARE TESTING AND VERIFICATION (Lecture Theatre)
Moderator: Aditya Mathur, Purdue University, USA
Panelists: Mats Heimdahl, University of Minnesota, USA
Ashish Jain, Telcordia, USA
Fevzi Beli, University of Paderborn, Germany

Session 16: WORKSHOP ON SOFTWARE CYBERNETICS (1) – CONTROL SYSTEMS FOR SOFTWARE CYBERNETICS (Seminar Room 11)
Chair: Kai-Yuan Cai, Beijing University of Aeronautics and Astronautics, China
• Keynote Speech: The information age: challenges and opportunities for control and engineering, J. D. Birdwell, University of Tennessee, USA
• State space techniques for software security quantification, Christopher Griffin, Bharat B. Madan, Penn State University, USA, and Kishor S. Trivedi, Duke University, USA
• Requirement process establishment and improvement: from the viewpoint of cybernetics, Hong Xu, Beijing University of Aeronautics and Astronautics, China, Pete Sawyer and Ian Sommerville, Lancaster University, UK
• FMEA control for software development, James H. Graham, University of Louisville, USA
• Supervisory Control of Time Petri Nets Using Net Unfolding, Ugo Buy, Houhang Darabi, Mihai Lehtene, and Vikram Venepally, University of Illinois at Chicago, USA
12:00-14:00 Lunch Break
14:00-15:30 Parallel Sessions

Session 17: MOBILE AND PERVERSIVE/UBIQUITOUS COMPUTING (Room G01)
Chair: Stephen Chen, Motorola Global Software Group, USA
• A Probabilistic Approach to the Anxious Home for Activity Monitoring, Geoff West, Stewart Greenhill and Svetla Vankatovs, Curtin University of Technology, Australia
• Exception Handling in Coordination-based Mobile Environment, Alexei Blavov, and Alexander Romanovskiy, University of Newcastle upon Tyne, UK
• A User Adaptable Interface Model to Support Ubiquitous User Access to Information Applications, Jon Davis, Andrew Tierney, Elizabeth Chang, Curtin University of Technology, Australia
• A Dynamic Context-Conflict Management Scheme for Group-aware Ubiquitous Computing Environments, Insuk Park, Dongman Lee, and Soon J. Hyun, Information and Communications University, Korea

Session 18: PANEL: 21st CENTURY GLOBAL SOFTWARE DEVELOPMENT AND EDUCATION (Lecture Theatre)
Moderator: Dick Simmons, Texas A&M University, USA
Panelists: Chris Nelson, IBM, USA
Victoria Livshitz, Sun Microsystems, USA
James Cross, Auburn University, USA
Xiaoqing (Frank) Liu, University of Missouri, USA
Barrie Thompson, University of Sunderland, UK

Session 19: WORKSHOP ON QUALITY ASSURANCE AND TESTING OF WEB-BASED APPLICATIONS (1) (Room G02)
Chair: Hong Zhu, Oxford Brookes University, UK
• An Agent-based Testing Approach for Web applications, Yu Qi, University of Texas at Dallas, David Kung, University of Texas at Arlington, Eric Wong, University of Texas at Dallas, USA
• Autonomous Hot Patching for Web-Based Applications, Hai Huang, Wei-tek Tsai, and Yinong Chen, Arizona State University, USA
• A Testing Approach for XML Schemas, Maria Claudia F. P. Emer, State University of Campinas, Brazil, Silvia Regina Vergilio, Federal University of Parana, Brazil, Mario Jino, State University of Campinas, Brazil

Session 20: WORKSHOP ON SOFTWARE CYBERNETICS (2) – SOFTWARE TESTING PROCESS CONTROL (Seminar Room 11)
Chair: Fevzi Beli, University of Paderborn, Germany
• A software cybernetic approach to control of the software system test phase, Scott D. Miller, Raymond A. DeCarlo, and Aditya P. Mathur, Purdue University, USA
• Self-testability in unit testing, Sami Beydada, Federal Finance Office, Germany
• Partition testing with dynamic partitioning, Kai-Yuan Cai, Tao Jing, and Cheng-Gang Bai, Beijing University of Aeronautics and Astronautics, China
• Novelty detection for a neural network-based online adaptive system, Yan Liu, Bojian Cucik, E. Fuller, Srikant Gurusaran, and S. Yerramalla West Virginia University, USA
• A control approach for agile processes, Joao W. Cangussu, University of Texas at Dallas, USA, and Richard M. Karch, Pillar Data Systems, USA
• On the potential of process simulation in software project schedule optimization, Frank Padberg, Universitat Karlsruhe, Germany
15:30-16:00 Coffee Break
16:00-17:30 Parallel Sessions

Session 21: REQUIREMENT AND DESIGN (2) (Room G01)
Chair: William C. Chiu, Tong Hui University, Taiwan
• A Tool and Case Study for Specification-based Program Review, Fumiko Nagoya, Shaoying Liu, and Yuting Chen, Hosei University, Japan
• Tri-directional Computed Chaining: An Efficient Hashing Algorithm for Limited Space Applications, Mitchell Loeb, IBM, and Alan L. Tharp, North Carolina State, USA
• A Requirement Engineering Approach for Designing XML-View Driven, XML Document Warehouses, Vicky Nassi, La Trobe University, Rajagun R. and Tharam S Dillon, University of Technology, and Wenny Rahayu, La Trobe University, Australia
• Structured Object-Oriented Co-Analysis/Co-Design of Hardware/Software for the FACTS Power System, Matt Ryan, Sojan Markose, Xiaoqing (Frank) Liu, Bruce McMillin, Ying Cheng, University of Missouri at Rolla, USA

Session 22: RELIABLE SYSTEMS (Lecture Theatre)
Chair: Maarten Bouwman, University of Amsterdam, The Netherlands
• Gompertz Software Reliability Model and Its Application, Koji Ohishi, Hiroyuki Okamura and Tadashi Dohi, Hiroshina University, Japan
• Software Reliability Growth Model considering Testing Profile and Operation Profile, Jing Zhao, Hong-Wei Liu, Gang Cui, Xiao-Zong Yang, Harbin Institute of Technology, China
• RIES - Internet Voting in Action, Engelbert Hubbers, Bart Jacobs and Wolter Pieters, Radboud University Nijmegen, The Netherlands
• Two Variations to the mCESG Painless e-Voting Scheme, Tim Storer and Ihab Duncan, University of St, Andrews, UK

Session 23: WORKSHOP ON QUALITY ASSURANCE AND TESTING OF WEB-BASED APPLICATIONS (2) (Room G02)
Chair: Ji Wang, National Laboratory for Parallel and Distributed Processing, China
• Keynote Speech: Testing Web Applications: the State of Art and Future Trends, Giuseppe A. Di Luca, University of Sannio, Italy
• Increasing Web Service Dependability through Consensus Voting, Nik Looker, Malcolm Munro, University of Durham, UK, and Xu, University of Leeds, UK
• Measuring the Functionality of Online Stores, Ernest Cachia, and Mark Micallef, University of Malta, Malta

Session 24: WORKSHOP ON SOFTWARE CYBERNETICS (3) – CONTROL APPROACHES FOR SOFTWARE DEVELOPMENT AND BEHAVIOR (Seminar Room 11)
Chair: Aditya Mathur, Purdue University, USA
• Consideration on a new software architecture for distributed environments using autonomous semantic agents. Atilla Elci and Behnam Rahnama, Eastern Mediterranean University, Turkey
• Constraint Violation Detection: A Fundamental Part of Software. Quanxiang Wang, Peking University, China
• Handling high bandwidth aggregates by receiver driven feedback control, Choo-Wei Tan, Princeton University, USA, Dahn-ming Chiu, John C. S. Lui. The Chinese University of Hong Kong, Hong Kong, and David K. Y. Yau. Purdue University, USA
• Synchronized architectures for adaptive systems, Tiberiu Sceleleanu, University of Turku, Finland, and David Garlan, Carnegie Mellon University, USA
• Component security – issues and an approach, Nimal Nissanka, London South Bank University, UK
18:30- Conference Dinner Banquet

Thursday, July 28, 2005
09:00-10:00 Keynote Address (2): (Lecture Theatre)
Chair: Hong Mei, Peking University, China
• Capability, Efficiency and a Secure Experience – A Model of Seamless Mobility. Jeena Srinivas, Vice President, Motorola, USA
10:00-10:30 Coffee Break
10:30-12:30 Parallel Sessions

Session 25: SOFTWARE TESTING (2) (Seminar Room 11)
Chair: ???
• Towards Describing Black-Box Testing Methods as Atomic Rules, Tatfline Murnane, Richard Hall and Karl Reed, La Trobe University, Australia
• Testing the Semantics of W3C XML Schema, Jian Bing Li, and James Miller, University of Alberta, Canada
• Goal-directed Test Data Generation for Programs with Pointer Variables, Arnaud Gotlieb and Tristan Denmat, IRISA/INRIA, and Bernard Botella, THALES Aerospace, France
• Coverage-Directed Test Generation with Model Checkers: Challenges and Opportunities, George Devaraj, Mats P. E. Heimdahl, and Donglin Liang, University of Minnesota, USA
• Testing Coverage Analysis for Software Component Validation, Jerry Gao, and Raquel Espinosa, San Jose State University, USA, and Jinghua He, Beijing University of Technology, China

Session 26: DEPENDABILITY AND FAULT TOLERANCE (Room G01)
Chair: Andreas Holzinger, Medical University Graz, Austria
• Availability Evaluation of Hardware/Software Systems with several Recovery Procedures, Sergiy A. Villikom, and David L. Parnas, University of Limerick, Ireland, Veeha B. Mendiratta, Lucent Technologies, USA, and Eamonn Murphy, University of Limerick, Ireland
Session 27: PANEL: HOW DEMOCRATIC WILL e-DEMOCRACY BE?
(Lecture Theatre)
Moderator: Massimo Felici, University of Edinburgh, UK
Panelists: Ian Brown, University College London, UK
Jacques Bus, European Commission, EU
Amreesh Modi, Motorola, USA
Peter Ryan, University of Newcastle, UK

Session 28: FAST ABSTRACT (1) - SOFTWARE SPECIFICATION, DESIGN, ANALYSIS AND TESTING (Room G02)
Chair: Jeff Yu Lei, University of Texas at Arlington, USA
A Different View of Fault Detection, T.J. Ostrand, E.J. Weyuker, R.M. Bell, and R.C.W. Ostrander, AT&T Labs, USA
A Specification Construction Unit-based editor for Z, Hiroshi Ishikawa, Fukuyama University, Japan
Contract-based Formal Specification of Safety Critical Systems, Wei Dong, Ji Wang, National Laboratory for Parallel and Distributed Processing, China
Towards Verification via Supercommission. Alexei Lisitsa, The University of Liverpool, UK
Andrei Nemchinov, Program Systems Institute, Russia
What is SINS? Ramesh Bhardawaj, Naval Research Laboratory, USA
Configuration Strategies for Evolutionary Testing, Xiaoyan Xue, Baowen Xu, Changhai Nie, and Liang Shi, Southeast University, China
12:30-14:00 Lunch Break
14:00-15:30 Parallel Sessions

Session 29: SECURITY AND PRIVACY (2) (Seminar Room 11)
Chair: Johnny S. Wong, Iowa State University, USA
Automated Negotiation of Privacy Contracts, Michael Maaser, and Peter Langendorfer, HPI, Germany
A Novel Method for Protecting Sensitive Knowledge in Association Rules Mining, En Tzu Wang, Guangling Lee, and Yu Tzu Lin, National Dong Hwa University, Taiwan
Protecting Users against Phishing Attacks with AntiPhish, Tzu Wang, Guanling Lee, and Yu Tzu Lin, National Dong Hwa University, Taiwan
A Performance-Based Grid Intrusion Detection System, Fang-Yie Leu, Jia-Chun Lin, Ming-Chang Li, and Chao-Tung Yang, Tung-Hai University, Taiwan

Session 30: FAST ABSTRACT (2) - COMPUTING PLATFORM, SERVICE AND APPLICATION (Room G02)
Chair: Massimo Felici, University of Edinburgh, UK
Per-Ad-Service: A Middleware Service for Pervasive Advertisement in M-Business, S. Ahmed, M. Sharrin, and S.I. Alamed, Marquette University, USA
Ubiquitous Computing for Hospital Applications: RFID-Applications to enable research in Real-Life environments, Andreas Holzinger, Medical University Graz, Austria, Klaus Schwaaberger, SOLVION Information Management, Austria, and Matthias Weitlander, Infineon Technologies Austria, Austria
Product Families On-Chip - Combining the Software Product Family Paradigm with Run-time Reprogrammable Hardware Technology, and Michel Jaring, VTT Electronics, Finland
A HAL for Component-Based Embedded Operating Systems, Qingmin Teng, Hua Wang, and Xiangqun Chen, Peking University, China
Preventing Illegal Usage of Mobile Phone Software, Yun-Sam Kim and Eun-Sun Cho, Chungbuk National University, Korea

Session 31: WORKSHOP ON MODEL-DRIVEN AGILE DEVELOPMENT (1) – EXTREME PROGRAMMING FOR RE-ENGINEERING (Room G01)
Chair: Ramesh Bhardawaj, Naval Research Laboratory, USA
Keynote Speech: Model-Driven Agile Development (MAD) for Situation-Aware Software in Ubiquitous Computing Environments, Stephen S. Yau, Arizona State University, USA
Component Based Approach for Automation of Rules in a Business Process, Saqib Ali, Ben Soh and Torab Torabi, La Trobe University, Australia
Extreme Programming for Distributed Legacy System Reengineering, Bin Xu, Zhejiang Gongshang University, China, Xiaohou Yang and Zhanhu He, Zhejiang University, China

Session 32: WORKSHOP ON TESTING AND QUALITY ASSURANCE OF COMPONENT BASED SYSTEMS (1) – COMPONENT-BASED SOFTWARE TESTING AND REGRESSION TESTING (Lecture Theatre)
Chair: Jerry Gao, San Jose State University, USA
Fault Injection Approach based on Dependence Analysis, Regina Lucia de Oliveira Mores, State University of Campusina, Eliane Martins, Institute of Computing, and Naadian Vicente Mendes, State University of Campusina, Brazil
Reasoning about Software Architecture-based RegressionTesting through a Case Study, Henry Muecini, University of L'Aquila, Italy, Marcello Dias, University of Durham, UK, and Debra J. Richardson, University of California Irvine, USA
Automated Testing of Oracle for Reliability Testing, Oliver Hummel and Colin Atkinson, University of Mannheim, Germany
15:30~16:00: Coffee Break
16:00~17:30: Parallel Sessions

Session 33: NETWORK, DISTRIBUTED, AND EMBEDDED SYSTEMS (2) (Seminar Room 11)
Chair: Wei-tek Tsai, Arizona State University, USA
Scopred Broadcast in Dynamic Peer-to-Peer Networks, Hung-Chang Hsiao and Chung-Ta King, National Tung-Hua University, Taiwan
Character Recognition System for Cellular Phone with Camera, K. S. Bae, K. K. Kim, Y. G. Chung, W. P. Yu, Electronics and Telecommunications Research Institute, Korea
Towards a Contract Aware CORBA Component Container, Egon Teiniker, Robert Lechner, Gernot Schmoelzer, Christian Kreiner, and Zsolt Kovacs, Graz University of Technology, Austria, and Reinhold Weiss, Salomon Automation GmbH, Austria
New Method for Dispatching Waiting Logical Processors in Virtual Machine Systems, Hidemori Umeno and Masato Kiyama, Kumamoto University, Takafumi Fukunaga, mamamoto Prof. College of Technology, Takashige Kubo and Toyoshia Imada, Hitachi, Japan

Session 34: FAST ABSTRACT (3) - DATA MINING AND KNOWLEDGE MANAGEMENT (Room G01)
Chair: Baowen Xu, Southeast University, China
Recovering "Lack of words" in Text Categorization for Item Banks, Atoor Nuntiyayagul, Mahidol University, Thailand, Nick Cercone, Dalhouse University, Canada, and Kanlaya Naruedomkul, Mahidol University, Thailand
Searching Design Patterns in Source Code, Detlef Streifert, Christian Heller, and Ilka Philippow, Ilmenau Technical University, Germany
A Probabilistic Evaluation Function for Relaxed Unification, Tony Abou-Assaleh, Nick Cercone, and Vlad Kelcej, Dalhouse University, Canada
Association Rule Based Data Mining Agents for Personalized Web Caching, Sujai Rani Mohan, E.K. Park, and Yijie Han, University of Missouri, Kansas City
Data Mining Application in Customer Relationship Management of Credit Card Business, Ruey-Chyi Wu, Ruey-Shun Chen, Chan-chine Chang and J.Y. Chen, National Chiao Tung University, Taiwan
Similarity Measurement between Images, Chau-Chen Chen and Huei-Ting Chu, National Tsing Hua University, Taiwan

Session 35: WORKSHOP ON MODEL-DRIVEN AGILE DEVELOPMENT (2) – COMPONENT-BASED AGILE DEVELOPMENT (Room G01)
Chair: Ramesh Bhardawaj, Naval Research Laboratory, USA
From Extreme Programming and Usability Engineering to Extreme Usability, Andreas Holzinger, Maximilian Errath, Gug Searle, Medical University Graz, Bettina Thurnher, Vienna University of Technology, and Wolfgang Slany, Graz University of Technology, Austria
Experiences with a Dialog-Driven Process Model for Web Application Development, Matthias Boek and Volker Gruhn, University of Leipzig, Germany

Session 36: WORKSHOP ON TESTING AND QUALITY ASSURANCE OF COMPONENT BASED SYSTEMS (2) - COMPONENT VALIDATION, QUALITY MEASUREMENT AND TEST AUTOMATION (Lecture Theatre)
Chair: Sahra Sedigh-Ali, University of Missouri at Rolla, USA
Towards Self-Testing of Component-Based Software, Fevzi Belli and C.J. Budnik, University of Paderborn, Germany
A Component Testability Model for Verification and Measurement, Jerry Gao and Ming-Chi Shih, San Jose State University, USA
A Framework for Efficient Contract-based Testing of Software Components, Egon Valentini, Gerhard Friess and Edmund Haselwanter, Graz University, Austria
17:30 End of Program

Information for SWEBOK Workshop