

CONFERENCE PROGRAM

27th Annual International Computer Software and Applications Conference COMPSAC 2003

Dallas, Texas, USA, November 3 – 6, 2003



Steering Committee

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William C. Chu, TungHai Univ., Taiwan
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Braunschweig, Germany
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Kane Kim, Univ. of California, Irvine, USA
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Huamin Wang, Army Univ., China
Qianxiang Wang, Peking Univ., China
Eric Wong, Univ. of Texas at Dallas, USA
Baowen Xu, Southeast Univ., China
Hongji Yang, De Montfort Univ., UK
Keun Hyuk Yeom, Pusan Univ., Korea
Y.T. Yu, City Univ. of Hong Kong, HK
Hong Zhu, Oxford Brookes Univ., UK

Welcome to the Twenty-Seventh Annual International Computer Software and Applications Conference (COMPSAC 2003).

COMPSAC is the major international forum for researchers, practitioners, managers, and policy makers interested in computer software and applications. The planned program will include original research papers, participative workshops, and discussion panels.

For more information, visit COMPSAC2003 official home page at

<http://se.kaist.ac.kr/compsac2003>

COMPSAC 2003 At-a-Glance

Monday November 3	Tuesday November 4	Wednesday November 5	Thursday November 6
09:00-10:30 Opening Session Keynote: Louis J. Blazy	Plenary Panel Session Chair : Stephen S. Yau	Keynote Session 09:00-10:00 Keynote: Robin Bloomfield	
10:30-11:00 Coffee Break	Coffee Break	Coffee Break 10:00-10:30	
11:00-12:30 Parallel Sessions: 1 Pervasive & Ubiquitous Computing 2 Panel: Homeland Security's Cyber Comp. 3 Software & System Testing (1) 4 Software Reuse & Management	Parallel Sessions: 13 Collaborative Systems 14 Software Architecture & Framework 15 Requirements Engineering 16 Panel: Case Studies in Systems/Software Eng.	Parallel Sessions: 22 Distributed Systems 23 Component-Based Software Engineering Workshop 2: Web & Security Informatics (1 of 3)	Parallel Sessions: 28 System Reliability (1) Workshop 3: WEBSA2003 (1 of 3)
12:30-14:00 Lunch Break	Lunch Break	Lunch Break 12:00-13:30	Lunch Break
14:00-15:30 Parallel Sessions: 5 Middleware Systems 6 Trustworthy Software Systems 7 Panel: Software Testing	Parallel Sessions: 17 Internet & Web-based Systems 18 Software Reengineering (1) 19 Quality Management	Parallel Sessions: 24 Network Systems 25 Object-Oriented Development (1) Workshop 2: Web & Security Informatics (2 of 3)	Parallel Sessions: 29 System Reliability (2) Workshop 3: WEBSA2003 (2 of 3)
15:30-16:00 Coffee Break	Coffee Break	Coffee Break 15:00-15:30	Coffee Break
16:00-17:30 Parallel Sessions: 9 Mobile and High Performance Systems 10 Information Security	Parallel Sessions: 20 Software Reengineering (2) 21 Measurement & Metrics Workshop 1: WACAI 2003 (2 of 2)	Parallel Sessions: 26 Enterprise Systems 27 Object-Oriented Development (2) Workshop 2: Web & Security Informatics (3 of 3)	Session: Workshop 3: WEBSA2003 (3 of 3)

CONFERENCE VENUE

Omni Richardson Hotel
701 East Campbell Road,
Richardson, Texas 75081
USA

SOCIAL FUNCTIONS

Conference Reception
6 pm, Monday November 3 2003
Conference Banquet
6 pm, Tuesday November 4 2003



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Monday November 3 2003

09:00-10:30 Opening Session

- **Welcome and Remarks:** General Chair: Robert Helms, University of Texas at Dallas, USA
- **Additional Greetings and Remarks:** Steering Committee Chair: Stephen S. Yau, Arizona State University, USA
- **Program Overview:** Program Co-Chair: Jeffrey Voas, Cigital, Inc, USA
- **Keynote Address 1:** *The Ruthless Pursuit of Frameworks and Patterns for Web-Based Applications:* Louis J. Blazy, Deputy Assistant Secretary, Department of Housing and Urban Development, and Professor, Software Engineering, University of Maryland, USA

10:30-11:00 Coffee Break

11:00-12:30 Parallel Sessions

Session 1: Pervasive & Ubiquitous Systems

Chair: Peter In, Korea University, Korea

- *Mining Sequential Patterns Using Graph Search Techniques:* Yin-Fu Huang and Shao-Yuan Lin, National Yunlin University of Science and Technology, Taiwan
- *A Middleware Service for Secure Group Communication in Mobile Ad Hoc Networks:* Stephen S. Yau and Xinyu Zhang, Arizona State University, USA
- *Device State Recovery in Non-volatile Main Memory Systems:* Ren Ohmura, Nobuyuki Yamasaki, and Yuichiro Anzai, Keio University, Japan

Session 2: Panel: Homeland Security's Cyber Component: A Survey of Legal Issues

Chair: Bret Michael, Naval Postgraduate School, USA

Panelists: Bret Michael, Naval Postgraduate School, USA
Thomas C. Wingfield, Potomac Institute for Policy Studies, USA
Steven Roberts, University of Miami, USA

Session 3: Software and System Testing (1)

Chair: T. Y. Chen, Swinburne University of Technology, Australia

- *BINTEST - Binary Search-based Test Case Generation:* Sami Beydeda, University of Dortmund, Volker Gruhn, University of Leipzig, Germany
- *Automated Metamorphic Testing:* Arnaud Godlieb, IRISA/INRIA, Bernard Botella, THALES Airborne Systems, France
- *Smart Debugging Software Architectural Design in SDL:* W. Eric Wong, Tatiana Sugeta, and Yu Qi, University of Texas at Dallas, USA, Jose C. Maldonado, University of Sao Paulo at Sap Carlos, Brazil

Session 4: Software Reuse & Management

Chair: Hui-min Lin, Institute of Software, Academy of Sciences, China

- *Lessons Learned from Software Engineering Multi-Agent Systems:* David C. Kung, Hitesh Bhambhani, Sheila Nwokoro, Wesam Okasha, Ravindra Kambalakatta, and Praveen Sankuratri, University of Texas at Arlington, USA
- *Application of Tightly Coupled Engineering Team for Development of Test Automation Software - A real world Experience:* Nader Kameli, Abraham Eapen, Ajay Pandey, Corey Miklos, Françoise Boudigou, Imelda Sutedjo, Manoj Paul, Vivek Vijay, and Wesley McDermott, Guidant Corporation, USA
- *A Cooperative Framework for Inter-Organizational Workflow System:* Shung-Bin Yan and Feng-Jian Wang, National Chiao Tung University, Taiwan

12:30-14:00 Lunch Break

14:00-15:30 Parallel Sessions

Session 5: Middleware Systems

Chair: Peter Henderson, University of Southampton, UK

- *Context Aware Deployment for Mobile Users:* Chantal Taconet, Erik Putrycz, and Guy Bernard, Institut National des Telecommunications, France
- *Policy-based Separation of Concerns for Dynamic Code Mobility Management:* Rebecca Montanari, Universita di Bologna, Cesare Stefanelli, Universita di Ferrara, and Gianluca Tonti, Universita di Bologna, Italy
- *Semantic-based Approach to Streaming XML Contents using Xstream:* Eugene Y.C. Wong, Alvin T.S. Chan, and Hong-Va Leong, Hong Kong Polytechnic University, Hong Kong

Session 6: Trustworthy Software Systems

Chair: Karama Kanoun, LAAS-CNRS, France

- *Automating Checking of Models built using a Graphically Based Formal Modelling Language:* Robert John Walters, University of Southampton, UK
- *Techniques and Tools for Automated Safety Analysis & Decision Support for Redundancy Allocation in Automotive Systems:* Yiannis Papadopoulos, University of Hull, UK, Christian Grante, Volvo Cars, Sweden
- **Design and Implementation** of a Cache-Conscious Index Manager for the Tachyon, a Main-Memory DBMS: Sang-Wook Kim and Kyung-Tae Lee, Kangwon National University, Won-Young Kim and Wan Choi, ETRI, Korea

Session 7: Panel: Software Testing

Organizer: W.T. Tsai, Arizona State University, USA

Panelists: Ramesh Bharadwaj, Navel Research Lab., USA
David Kung, University of Texas at Arlington, USA
Raymond Paul, Department of Defense, USA
T. H. Tse, The University of Hong Kong, Hong Kong

Session 8: Software Process Management

Chair: David Card, Software Productivity Consortium, USA

- *Towards Dynamic Process with Variable Structure by Reflection:* Shaohua Liu, Jun Wei, and Wei Xu, The Chinese Academy of Sciences, China
- *Current Trends in the Adoption of the CMMI Product Suite:* David Zubrow, SEI, Carnegie-Mellon University, USA
- *A CC-based Security Engineering Process Evaluation Model:* Jongsook Lee, Jieun Lee, Seunghee Lee, and Byoungju Choi, Ewha Womans University, Korea

15:30-16:00 Coffee Break

16:00-17:30 Parallel Sessions

Session 9: Mobile and High Performance Systems

Chair: Kinji Mori, Tokyo Institute of Technology, Japan

- *An Object-Passing Model for Parallel Programming:* Jameela Al-Jaroodi and Nader Mohamed, University of Nebraska - Lincoln, USA
- *Conceptual Modelling of Mobile Object Systems: Language Constructs for Distinguishing Between Mobile and Stationary Subsystems:* Peter Ahlbrecht, Silke Eckstein, and Karl Neumann, Tech. Univ. Braunschweig, Germany
- *Data Placement and Query Processing Based on RPE Parallelisms:* Yaxin Yu, Gang Wu, Junan Hu, and Nan Tang, Northeastern University, China

Session 10: Information Security

Chair: Ramesh Bharadwaj, Navel Research Lab., USA

- *A Protection Environment for Administrators of Windows 2000/XP Against Malicious Program Attacks:* Adrian Spalka, Marcel Winandy, and Hanno Langweg, University of Bonn, Germany
- *A Security Characterisation Framework for Trustworthy Component Based Software Systems:* Khaled M. Khan, University of Western Sydney, and Jun Han, Monash University, Australia
- *Exploiting Self-Modification Mechanism for Program Protection:* Yuichiro Kanzaki, Akito Monden, Masahide Nakamura, and Ken-ichi Matsumoto, Nara Institute of Science and Technology, Japan

Session 11: Software and System Testing (2)

Chair: Sami Beydeda, University of Leipzig, Germany

- *Tolerance of Control-Flow Testing Criteria:* Sergiy A. Vilkomir, Kalpesh Kapoor, and Jonathan P. Bowen, South Bank University, UK
- *Data Flow-Based Unit Testing of Aspect-Oriented Programs:* Jianjun Zhao, Fukuoka Institute of Technology, Japan
- *A Strategy for Selecting Synchronization Sequences to Test Concurrent Object-Oriented Software:* Huo Yan Chen, Yu Xia Sun, Jinan University, China and T.H. Tse, The University of Hong Kong, Hong Kong

Session 12: Panel: Global Trends in SPI

Organizer: Stephen Chen, Motorola, USA

Panelists: David Card, Software Productivity Consortium, USA
Roger Fordham, Motorola, USA
David Zubrow, Carnegie-Mellon University, USA

18:00-19:30 Conference Reception

19:30-21:30

**Planning Meeting for COMPSAC2004
September 28 - October 1, 2004
Hong Kong**

Tuesday November 4 2003

09:00-10:30 Plenary Session 1

Panel: Challenges and Recent Advances in Developing Trustworthy Software-Based Systems

Chair: Stephen S. Yau, Arizona State University, USA

Panelists: Carl Landwehr, National Science Foundation, USA
Jeffrey Voas, Cigital, Inc., USA
Thomas Weigert, Motorola Global Software Group, USA

10:30-11:00 Coffee Break

11:00-12:30 Parallel Sessions



Session 13: Collaborative Systems

Chair: Hans-Dieter Enrich, Technical University Braunschweig, Germany

- *A Multi-Agent Software Environment for Testing Web-based Applications*: Qingning Huo, Hong Zhu, and Sue Greenwood, Oxford Brookes University, UK
- *Mediating Electronic Meetings*: Jia Zhang, infiNET Solutions, Carl K. Chang, Iowa State University, Jen-Yao Chung, IBM Watson Research, USA
- *Scalable Multilateral Communication Technique for Large-Scale Information Systems*: Khaled Ragab, Takanori Ono, Naohiro Kajii, and Kinji Mori, Tokyo Institute of Technology, Japan

Session 14: Software Architecture & Framework

Chair: Jeff Lei, University of Texas, Arlington, USA

- *Runtime Software Architecture Based Software Online Evolution*: Qianxiang Wang, Gang Huang, Junrong Shen, Hong Mei, and Fuqing Yang, Peking University, China
- *Proactive Views on Concrete Aspects: A Pattern Documentation Approach for Software Evolution*: T.H. Ng and S.C. Cheung, Hong Kong University of Science and Technology, Hong Kong
- *The XIS Generative Programming Techniques*: Alberto Rodrigues da Silva, Instituto Superior Tecnico / INESC-ID, Portugal

Session 15: Requirements Engineering

Chair: Hongji Yang, De Montfort University, UK

- *A Feature-Oriented Approach to Modeling and Reusing Requirements of Software Product Lines*: Hong Mei, Wei Zhang, and Fang Gu, Peking University, China
- *A Synergistic Interweaving of Formal and Informal Methods*: W.L. Yeung, Lingnan University, Karl R.P.H. Leung, Hong Kong Institute of Vocational Education, Hong Kong
- *Mockup-Driven Fast-Prototyping for Web Requirements Engineering*: Jia Zhang, infiNET Solutions, Carl K. Chang, Iowa State University, Jen-Yao Chung, IBM Watson Research, USA

Session 16: Panel: Case Studies in Systems/Software Engineering

Chair: Louis Blazy, Department of Housing and Urban Development and University of Maryland, USA

Panelists: Jeanne Behnke, NASA Godard Space Flight Center, USA

Caroline M. Birog, American Chemical Society, USA

Robert T. McCann, Lockheed Martin Management & Data Systems, USA

12:30-14:00 Lunch Break

14:00-15:30 Parallel Sessions

Session 17: Internet & Web-based Systems

Chair: Kendra Cooper, University of Texas, Dallas, USA

- *Integrating Heterogeneous Web Services with WebXcript*: Dickson K. W. Chiu, Danny Kok, and Alex K.C. Lee, Chinese University of Hong Kong and S.C. Cheung, Hong Kong University of Science and Technology, Hong Kong
- *A Probabilistic Model for Intelligent Web Crawler*: Ke Hu and Wing Shing Wong, Chinese University of Hong Kong, Hong Kong
- *Autonomous Decentralized Database System Reconstruction Technology through Mobile Agent Monitoring and Coordination*: Carlos Perez Leguizamo, Dake Wang, and Kinji Mori, Tokyo Institute of Technology, Japan

Session 18: Software Reengineering (1)

Chair: T. H. Tse, The University of Hong Kong, Hong Kong

- *Incremental Transformation of Procedural Systems to Object Oriented Platforms*: Ying Zou and Kostas Kontogiannis, University of Waterloo, Canada
- *Migrating Web Frameworks Using Water Transformations*: Ahmed E. Hassan and Richard C. Holt, University of Waterloo, Canada
- *Bridging Legacy Systems to Model Driven Architecture*: Bing Qiao and Hongji Yang, De Montfort University, UK

Session 19: Quality Management

Chair: Hong Zhu, Oxford Brookes University, UK

- *Transforming quantities into qualities in assessment of software systems*: Gerardo Canfora, Luigi Cerulo, and Luigi Troiano, University of Sannio, Italy
- *Information Quality Assessment of a Yellow-Pages Location-Based Service*: Artem Katasonov and Markku Sakkinen, University of Jyväskylä, Finland
- *VDM over PSP: A Pilot Course for VDM Beginners to Confirm its Suitability for Their Development*: Hisayuki Suzumori, Haruhiko Kaiya, and Kenji Kaijiri, Shinshu University, Japan

15:30-16:00 Coffee Break

16:00-17:30 Parallel Sessions

Session 20: Software Reengineering (2)

Chair: Feng-Jian Wang, National Chiao Tung University, Taiwan

- *A Reengineering Process for Migrating from an Object-Oriented Legacy System to a Component-Based System*: Eunjoo Lee, Seoul National University, Woochang Shin, Seokyeong University, Byungjeong Lee, University of Seoul, and Chisu Wu, Seoul National University, Korea
- *Determining Granularity of Independent Tasks for Reengineering a Legacy System into an OO System*: Richard Millham, Martin Ward, and Hongji Yang, De Montfort Univ., UK
- *Recovering a Business Object Model from Web Applications*: Giuseppe Antonio Di Lucca, University of Sannio, Anna Rita Fasolino, Porfirio Tramontana, and Ugo De Carlini, University of Napoli, Italy

Session 21: Measurement & Metrics

Chair: Nader Kameli, Guidant Corp., USA

- *Testing the Suitability of Markov Chains as Web Usage Models*: Zhao Li and Jeff Tian, Southern Methodist University, USA
- *Integrating Practical Software Measurement and the Balanced Scorecard*: David Card, Software Productivity Consortium, USA
- *A Cut-Based Algorithm for Reliability Analysis of Terminal-Pair Network Using OBDD*: Yung-Ruei Chang, Hung-Yau Lin, and Sy-Yen Kuo, National Taiwan University, Taiwan

18:00-21:30 COMPSAC2003 Dinner Banquet

Wednesday November 5 2003

09:00-10:00 Plenary Session 2

Chair: Jeffrey Voas, Cigital, Inc., USA

Keynote Address 2: *The Pursuit of Trust: Finding a Way Through the High Assurance Landscape*: Robin Bloomfield, Professor, Adelard and City University, London, UK

10:00-10:30 Coffee Break

10:30-12:00 Parallel Sessions

Session 22: Distributed Systems

Chair: Rida Bazzi, Arizona State University, USA

- *IBHIS: Integration Broker for Heterogeneous Information Sources*: Ioannis Kotsiopoulos and John Keane, UMIST, Mark Turner, University of Keele, Paul Layzell, UMIST, Fujun Zhu, University of Durham, UK
- *Protecting Distributed Software Upgrades that Involve Message-Passing Interface Changes*: Ann T. Tai and Kam S. Tso, IA Tech, Inc, and William Sanders, University of Illinois, USA
- *Implementation of Nonstop Software Update for Client-Server Applications*: Wen-Kang Wei, Kuo-Feng Ssu, and Hewijin Christine Jiau, National Cheng Kung University, Taiwan
- *Just What Could Possibly Go Wrong in B2B Integration?*: Dean Kuo, Alan Fekete, Paul Greenfield, Julian Jang, and Doug Palmer, CSIRO, Australia

Session 23: Component-Based Software Engineering

Chair: I-Ling Yen, University of Texas, Dallas, USA

- *A Test-Driven Component Development Framework based on the CORBA Component Model*: Egon Teiniker, Stefan Mitterdorfer, Graz University of Technology and Salomon Automation GmbH, Leif Morgan Johnson, Salomon Automation GmbH, Christian Kreiner, Graz University of Technology and Salomon Automation GmbH, Zsolt Kovacs, Salomon Automation GmbH, and Reinhold Weiss, Graz University of Technology, Austria
- *Information Use in CBSE Design*: Stephen Owen, David Budgen, and Pearl Brereton, Keele University, UK
- *Variable Strength Interaction Testing of Components*: Myra B. Cohen, Peter B. Gibbons, and Warwick B. Mugridge, University of Auckland, New Zealand, Charles J. Colbourn, and James S. Collofello, Arizona State University, USA

12:00-13:30 Lunch Break

13:30-15:00 Parallel Sessions

Session 24: Network Systems

Chair: Carl Chang, Iowa State University, USA

- *An Integrated Approach to Scatternet Traffic Management in Bluetooth Ad Hoc Networks*: Liza Lai-Yee Shek and Yu-Kwong Kwok, University of Hong Kong, Hong Kong
- *Distributed Garbage Collection by Timeouts and Backward Inquiry*: Sung-Wook Ryu, Veritas Software Co., USA, Eul Gyu Im, National Security Research Inst., Korea, B. Clifford Neuman, Univ. of Southern California., USA
- *Facilitating Secure Ad hoc Service Discovery in Public Environments*: Feng Zhu, Matt Mutka, Michigan State University, USA, and Lionel Ni, Michigan State University, USA and Hong Kong University of Science and Technology, Hong Kong

Session 25: Object-Oriented Development (1)

Chair: Mei Hong, Peking University, China

- *Precise Specification to Compound Patterns with ExLePUS*: Jeffrey K. H. Mak, Clifford S.T. Choy, and Daniel P.K. Lun, The Hong Kong Polytechnic University, Hong Kong
- *Scenario Architecture - A Methodology to Build a Global View of OO Software System*: Yiausyu Tsai and Hewijin Christine Jiau, National Cheng Kung University, Taiwan
- *A Role-Based Metamodeling Approach to Specifying Design Patterns*: Dae-Kyoo Kim, Robert France, Sudipto Ghosh, and Eunjee Song, Colorado State University, USA



15:00-15:30 Coffee Break

15:30-17:30 Parallel Sessions

Session 26: Enterprise Systems

Chair: Dick B. Simmons, Texas A & M University, USA

- *A Toolkit for Developing Web-based Information Systems: Case Studies*: Thierry Bodhuin, PST and University of Sannio, and Maria Tortorella, University of Sannio, Italy
- *Rapid Verification of Embedded Systems Using Patterns*: W.T. Tsai, Arizona State University, F. Zhu, University of Minnesota, R. Paul, Department of Defense, L. Yu, C. Fan, and D. Wang, Arizona State University, USA
- *Software Documentation-Driven Manufacturing*: Luqi, Xianzhong Liang, Lin Zhang, and Valdis Berzins, US Naval Postgraduate School, USA

Session 27: Object Oriented Development (2)

Chair: William Chu, TungHai University, Taiwan

- *Meta Model Approach for Mediation*: Masataro Shiroiwa and Takao Miura, Hosei University, Isamu Shioya, Sanno University, Japan
- *A Flexible Framework for Replication in Distributed Systems*: Eul Gyu Im, National Security Research Institute, Korea, B. Clifford Neuman, University of Southern California, USA
- *A Graph Grammar Approach to Software Architecture Verification and Transformation*: Jun Kong, Kang Zhang, Jing Dong, and Guanglei Song, The University of Texas at Dallas, USA

Thursday November 6 2003

11:00-12:30

Session 28: System Reliability (1)

Chair: Kai-Yuan Cai, Beijing University of Aeronautics and Astronautics, China

- *Sensitivity Analysis of Software Reliability for Component-Based Software Applications*: Jung-Hua Lo, Chin-Yu Huang, and Sy-Yen Kuo, National Taiwan University, Taiwan, Michael R. Lyu, The Chinese University of Hong Kong, Hong Kong
- *Effects of Introducing Survival Behaviours into Automated Negotiators*: Peter Henderson, Stephen Crouch, Robert John Walters, and Qinglai Ni, University of Southampton, UK
- *An Architecture of Wireless Web and Dialogue System Convergence for Multimodal Service Interaction Over Converged Networks*: Feng Liu, J. Jenny Li, Xueshan Shan, and Wu Chou, Avaya Labs Research, USA

12:30-14:00 Lunch Break

14:00-15:30

Session 29: System Reliability (2)

Chair: Michael R. Lyu, The Chinese University of Hong Kong, Hong Kong

- *Integrating Runtime Assertions With Dynamic Types: Structuring Derivation From An Incomputable Specification*: Paul A. Bailes and Colin J.M. Kemp, The University of Queensland, Australia
- *Deductive Schedulability Verification Methodology of Real-Time Software using both Refinement Verification and Hybrid Automata*: Satoshi Yamane, Kanazawa University, Japan
- *An Efficient Defect Estimation Method for Software Defect Curves*: Chenggang Bai and Kai-Yuan Cai, Beijing University of Aeronautics and Astronautics, China, and T.Y. Chen, Swinburne University of Technology, Australia

15:30-16:00 Coffee Break

COMPSAC 2003 Workshops

Tuesday November 4 2003

14:00-15:30, Break, 16:00-17:30

Workshop 1: Workshop on Architectures for Complex Application Integration (WACAI2003)

Organiser and Chair: Piyush Maheshwari, The University of New South Wales, Australia

- *Workshop Chair's Introduction*: Piyush Maheshwari, The University of New South Wales, Australia
- *An Experience of Applying Architecture-based Approach to Build a Component-based Requirements Management Toolset*: Muhammad Ali Babar, The University of New South Wales, Australia

- *Enterprise Application Integration Using a Component-based Distributed Object Architecture*: Piyush Maheshwari, The University of New South Wales, Australia
- *Flexible Fault Tolerance in Configurable Middleware for Embedded Systems*: Kevin Dorow, Pacific NorthWest National Laboratory, USA
- *Ad Hoc Software Interfacing: Enterprise Application Integration (EAI) When Middleware Is Overkill*: Arthur A. Reyes, Jose R. Espino, Vijai Mohan and Monica Nadkar, University of Texas at Arlington, USA
- *Next Generation Application Integration: Challenges and New Approach*: Ian Gorton, Pacific National Laboratory, USA

Wednesday November 5 2003

10:30-12:00, Lunch Break, 13:30-15:00, Break, 15:30-17:00

Workshop 2: Web & Security Informatics Workshop

Organiser and Chair: Tsau Young Lin, San Jose State University, USA

- *Workshop Chair's Introduction*: Tsau Young Lin, San Jose State University, USA
- *Intelligent Web Topics Search Using Early Detection and Data Analysis*: Ching-Cheng Lee and Yixin Yang, California State University at Hayward, USA
- *Discovering Cyber Communities from WWW*: Xiaohua Hu, Drexel University, Jianchao Han, California State University, Nick Cercone, Dalhousie University, USA
- *Internet-Based Decision Support: toward E-hospital*: Shusaku Tsumoto, Shoji Hirano and Eisuke Hanada, Shimane Medical University, Japan
- *A Framework for Web-based Research Support Systems*: Yiyu Yao, University of Regina, Canada
- *Intelligent Mobile Agents for Efficient and Inexpensive e-Shopping*: Lin Lu and Yan-Qing Zhang, Georgia State University, USA
- *Managing Security Policy in Large Distributed Web Services Environment*: Symon Chang, and Qiming Chen, Commerce One Inc., USA
- *Information Flow in E-Government*: Tsau Young Lin, San Jose State University, USA
- *Measured Responses to Cyber Attacks using Schmitt Analysis: A Case Study of Attack Scenarios for Software-Intensive Mass Transportation Systems*: J. B. Michael and T. C. Wingfield, Naval Postgraduate School, USA
- *A Methodology for Hiding Knowledge in XML Document Collections*: Vijay V. Raghavan, University of Louisiana Lafayette, Tom Johnsten, Robert B. Sweeney, University of South Alabama, USA
- *Security for the Semantic Web*: Bhavani Thuraisingham, The National Science Foundation, USA
- *Situation-Aware Personalized Information Retrieval for Mobile Internet*: Stephen S. Yau, Huan Liu, Dazhi Huang, and Yisheng Yao, Arizona State University, USA

Thursday November 6 2003

11:00-12:30, Lunch Break, 14:00-15:30, Break, 16:00-17:30

Workshop 3: Web Based Systems and Applications (WEBSA2003)

Organiser and Chair: Baowen Xu, Southeast University, China

- *Workshop Chair's Introduction*: Baowen Xu, Southeast University, China
- *A Multiple-Tier Model Manipulation Architecture on Enterprise Decision Making*: Zhihong Liang, Shaoyun Li, Hongwei Kang, Qing Duan, Hua Zhou, and Hongji Yang, De Montfort University, UK
- *Regression Testing for Web Applications Based On Slicing*: Lei Xu and Baowen Xu, Southeast University, China
- *A Supervised Visual Wrapper Generator for Web-Data Extraction*: Xiaofeng Meng, Haiyan Wang, Chen Li, Huizhong Kou, People's University of China, China
- *A Dynamic Information Retrieval System for the Web*: Xiangzhu Gao and San Murugesan, Southern Cross University, Australia
- *A Pattern Language Model for Framework Development*: Liu Wudong, He Keqing, Ying Shi, Xu Hui, Jing Yixing, Wuhan University, China
- *Some Domain Patterns in Web Application Framework*: Liu Chao, He Keqing, Liu Jie, Ying Shi, Fujitsu Limited, Japan
- *Web-Based Support for Managing Large Collections of Software Artefacts*: Cornelia Boldyreff, Phyo Kyaw, Janet Lavery, David Nutter, and Stephen Rank, University of Durham, UK
- *MDA-based Development of E-Learning System*: Hong Wang and Dong Zhang, Carleton University, Canada



COMPSAC 2003 Technical Program

- *PeAgent – A Mobile Agent System to Support Secure Internet and Web Applications:* Qingkai Ma, Wei Hao, Wei Li, Manghui Tu, I-Ling Yen, University of Texas at Dallas, USA
- *Toward an Easy Programming Environment for Implementing Mobile Applications: A Fleet Application Case Study Using SyD Middleware:* S. K. Prasad, M. Weeks, Y. Zhang, A. Zelikovsky, S. Belkasim, R. Sunderraman, and V. Madiseti, Georgia State University, USA
- *A Hierarchical Strategy for Testing Web-Based Applications and Ensuring Their Reliability:* Jeff Tian, Li Ma, Zhao Li and A. Gunes Koru, Southern Methodist University, USA

COMPSAC 2003 Registration

To register, complete and fax or post this form with full payment to:

Dazhi Huang
Registration Chair

Arizona State University
Computer Science and Engineering Department
Goldwater Center, Room 206
Mail Code: 5406
Tempe, AZ 85287-5406, USA

Fax: 1-480-965-2751
Telephone: 1-480-965-3753
Email: dazhi.huang@asu.edu

Advance registration fee is applicable for registration received before **October 5, 2003**. Early registration is encouraged. Request for refund for cancellation of registration must be received before **October 5, 2003**. A service charge of \$100 will be deducted for each cancelled registration.

ITEM	RATE		AMOUNT
	Advanced Registration (before October 5, 2003)	On-Site Registration (after October 5, 2003)	
Conference/Workshops: *			
Members **	US \$500.00	US \$600.00	US \$ _____
Non-Members	US \$625.00	US \$750.00	US \$ _____
Student Members ***	US \$200.00	US \$250.00	US \$ _____
Each Additional Reception Ticket on November 3, 2003	US \$30.00	US \$35.00	US \$ _____
Each Additional Banquet Ticket on November 4, 2003	US \$60.00	US \$70.00	US \$ _____
Total Amount			US \$ _____

* Registration fee includes admissions to all technical sessions of the conference and three workshops, a copy of the proceedings (including all conference and workshop papers), coffee breaks, conference reception, and banquet.

Student registration fee includes admissions to all technical sessions of the conference and three workshops, a copy of the proceedings (including all conference and workshop papers), coffee breaks, but excludes conference reception and banquet.

** IEEE Member or IEEE Computer Society Affiliate Member must include membership number in order to register at the member rate. IEEE or IEEE Computer Society Affiliate Membership No. _____

*** Student must be IEEE Student Member in order to register at the student rate. IEEE Student Membership No. _____

Payment information

Please pick one method of payment:

Check:

Checks must be drawn from a US bank and in US dollars only. Checks must be payable to **"IEEE COMPSAC 2003"**

Credit Card: **Master /** **Visa**

Card Number: _____ Expiration Date: _____

Card-Owner's Signature: _____

Total Amount: _____ Date: _____

Bank Transfer:

Please contact Dazhi Huang for the bank information.

COMPSAC 2003 Hotel Information

Conference Hotel: Omni Richardson Hotel

701 East Campbell Road, Richardson, Texas 75081, USA

Special group room rate: Single or double -- **\$69.00 plus 13% tax**

A block of rooms with this special group rate has been designated for COMPSAC 2003 participants. The cut-off date for making the reservations with this special group rate is **October 13, 2003**. However, since the number of rooms is limited, it is advisable to make your reservation as early as possible. After the rooms in the block are filled by our group or when the cut-off date is reached, reservations will be accepted based availability of rooms at the hotel. It is encouraged to make your reservation early.

Reservation:

Call the hotel at 1-972-231-9600, ask for the reservation department and identify you with the group COMPSAC 2003. In the US, you can make reservation using the toll-free phone number 1-800-843-6664. You can also make your reservation through fax at the hotel fax number 1-972-231-7384, and make sure to mention that you are with the group COMPSAC 2003. A reservation can be confirmed only with the guarantee of a credit card or payment for the first night's room rate plus applicable tax.

Cancellation policy:

To cancel a reservation, the hotel must receive your cancellation request 72 hours prior to the day of arrival. Any reservation not cancelled will receive a no-show billing for the full room rate plus tax. When a reservation is cancelled, make sure to secure a cancellation number for your cancellation from the hotel.

Check-in & check-out times:

The check-in time is 3:00 p.m. and the check-out time is 12:00 noon. Guests are permitted to check in earlier or check out later subject to room availability.

COMPSAC 2003 Hotel Reservation Form:

Name: _____

Address: _____

Telephone: _____ Fax: _____

Room requested: single _____ or double _____ (room rate: \$69.00 plus 13% tax)

Number of persons in the room: _____

The total amount for this reservation: \$ _____

Arrival Date: _____, Departure Date _____

This reservation is guaranteed by (check one) a check _____ or the following credit card _____:

Credit card name (check one): Visa _____ Master Card _____

Card Number: _____

Name on the Card: _____

Billing address: _____

Expiration date: _____

Signature: _____ Date: _____





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