

ICEBE

IEEE International Conference on e-Business Engineering

Beijing, China
18-20 October 2005

Sponsored by

IEEE Computer Society, Technical Committee on Electronic Commerce (TCEC)

Supported by

School of Economics and Management, Tsinghua University
IBM China Research Laboratory
IBM China Software Development Laboratory
Department of Computer Science, the University of Hong Kong
School of Information Systems, Singapore Management University



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Program at a Glance

Oct. 17	15:00 - 18:00	Registration at Conference Hotel
	18:00 - 20:00	Welcome Dinner at Conference Hotel (Tsinghua Unisplendour International Center)

		Track 1	Track 2	Track 3	Track 4
Oct. 18	08:45 - 09:00	Opening Remarks			
	09:00 - 10:15	Keynote 1: "Future Trends and Directions for e-Business Engineering" Jen-Yao Chung and Wei-Tek Tsai			
	10:15 - 10:45	Coffee Break			
	10:45 - 12:25	1: Software Architecture for e-Business	2: Agents	3: Business Modeling	4: Mobile and Pervasive Commerce
	12:25 - 13:30	Lunch at Conference Venue (Tsinghua School of Economics and Management)			
	13:30 - 15:10	Industry Track 1: Invited Talks			5: Workflows
	15:10 - 15:40	Coffee Break			
	15:40 - 17:20	6: Business Analysis	7: IT Models	8: Recommender Systems	9: Data Mining
	17:30 - 19:30	Reception at Conference Hotel (Tsinghua Unisplendour International Center)			
	19:30 - 21:30	Tour of Tiananmen Square and Vicinity			

Oct. 19	08:45 - 10:00	Keynote 2: "E-Government and the CROWN Project," Jinpeng Huai			
	10:00 - 10:15	Web Services Challenge Report			
	10:15 - 10:45	Coffee Break			
	10:45 - 12:25	10: Business Performance Management	11: Content Retrieval	Industry Track 2: e-Business Innovations	12: Theoretical Foundations of e-Business
	12:25 - 13:30	Lunch at Conference Venue (Tsinghua School of Economics and Management)			
	13:30 - 15:10	13: Location-Based Services	14: Grid and Peer-to-Peer	15: Business Transformation	16: Data Access
	15:10 - 15:40	Coffee Break			
	15:40 - 17:20	17: Business Processes and Services	18: Data Adaptation and Integration	19: Service Selection and Composition	20: e-Commerce Enablement
	17:20 - 18:30	Tsinghua Campus Tour			
	18:30 - 21:00	Conference Banquet (Tsinghua Campus Restaurant) Keynote 3: "Can Agent Systems Deliver?," Marcin Paprzycki			

Oct. 20	08:45 - 09:00	Program Announcement			
	09:00 - 10:15	Keynote 4: "Solutions Innovation, Solutions Engineering for Industry Solutions" Catherine Lasser			
	10:15 - 10:45	Coffee Break			
	10:45 - 12:25	21: Business Integration	22: Web Services	23: Linking Business and IT	Industry Track 3: Case Studies
	12:25 - 12:40	Closing			
	12:40 - 13:40	Lunch at Conference Hotel (Tsinghua Unisplendour International Center)			
	13:40 - 21:00	Tour of the Great Wall and Closing Dinner			

Message from the General Chairs

Welcome to Beijing, China, one of the fastest growing and most dynamic world-class cities of the 21st century. As conference organizers, we highly appreciate your interest in and support of the IEEE International Conference on e-Business Engineering (ICEBE 2005). ICEBE 2005 is sponsored by the IEEE Computer Society, Technical Committee on Electronic Commerce (TCEC). ICEBE is an international forum where researchers and practitioners from different areas of computer science and management science can exchange information on engineering designs, enabling technologies, and anecdotal experiences. The focus of our conference is related to e-business - to identify the emerging research topics, and to help shape the future of IT-transformed enterprise, government and commerce. ICEBE 2005 is a sister event of the IEEE 7th International Conference on e-Commerce Technology (CEC 2005, <http://cec05.in.tum.de/>), which was held in Munich, Germany, July 19-22, 2005.

The ICEBE 2005 conference has received generous support from many organizations to make this event possible. We would like to thank School of Economics and Management, Tsinghua University, IBM China Research Laboratory, IBM China Software Development Laboratory, Department of Computer Science, the University of Hong Kong, and School of Information Systems, Singapore Management University for their financial support. We would like to thank Francis Lau, Hui Lei, and Xiaofeng Meng for creating an excellent technical program shaped from the overwhelming number of paper submissions we received. Special thanks go to Zhong Tian for organizing the industry track, Jiannong Cao and Kwei-Jay Lin for organizing the student workshop, William Cheung for organizing the Web Services Challenge, Shonali Krishnaswamy, Minglu Li, and Yan Zhu for conference publicity, Min Wang for coordinating with the IEEE for proceedings publication, Hong Cai and Qiang Wei for managing conference meeting rooms, hotel and social functions, Lianjun An and Xiaojun Qian for conference finance, Hing Fung Ting for registration, and Anthony Tam for managing web pages and paper submission system. We are very grateful to all Program Committee members for helping us review the papers. We also refer you to the program chairs' messages for additional information on the conference.

We look forward to many productive discussions during the 3-day conference and to many memorable moments for conference participants. We wish you an enjoyable experience and a fruitful meeting in Beijing!

General Co-Chairs:

Guoqing Chen, Tsinghua University

Jen-Yao Chung, IBM T.J. Watson Research Center

Lionel Ni, Hong Kong University of Science and Technology

Message from the Program Committee Chairs

It takes a great program and a great location to make a great conference. Beijing is without doubt an ideal place for a conference. We were however a bit apprehensive about the quality of the program; after all, this is the first ever ICEBE conference. Our worries were soon proved to be misplaced as paper after paper started to jam our submission site. We received 420 submissions by the April 26th deadline which was slightly extended upon requests from a number of authors.

The review process was a daunting challenge even for our 80-member strong program committee. We therefore adopted a two-phase strategy for reviewing the papers. In the first phase, select members of the program committee scanned through the entire collection of papers to arrive at a shorter list of 220. The selection was based on such criteria as whether the paper is within the scope of the conference, and if the paper appears to be technically sound, etc. The second phase then took each of the short-listed 220 papers through a rigorous review process. We insisted on obtaining at least three reviews for each paper (there were a few exceptions, which had only two reviews) in order to ensure the quality and fairness.

Based on the received reviews, we accepted 72 full papers for the research track, which amounts to an acceptance rate of 17%. In addition, we accepted 34 short papers, and 11 industry-track papers. The full papers, short papers, and industry-track papers are all included in these proceedings. The number of papers that have passed the threshold is obviously very encouraging, particularly for a brand new conference on a discipline which has only barely gotten off the ground. The papers represent 18 countries around the world, with the top three spots occupied by China, USA and Australia. Congratulations to all the authors!

We would like to thank all the PC members and external reviewers for their high-quality reviews. We are grateful to Anthony Tam and Ken Tsang for their effort in creating and operating the site that supported the submission and the review process, and to the general chairs, Guoqing Chen, Jen-Yao Chung, and Lionel Ni, who offered much useful advice along the way.

Program Co-Chairs:

Francis Lau, The University of Hong Kong
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Keynote Addresses

Future Trends and Directions for e-Business Engineering

Jen-Yao Chung¹ and Wei-Tek Tsai²

¹ IBM T. J. Watson Research Center

² Department of Computer Science and Engineering, Arizona State University

As service-oriented computing is getting acceptance by government agencies and major computer and software companies, we also witness several areas that need to address. One issue is that there is a lack of coherent curriculum and science behind the service-oriented computing. Service-oriented computing is related to a number of traditional areas such as business models, programming languages, model construction and verification, software architecture and design, software reusability, databases, ontology, autonomic computing, grid computing, and computer networks. While most of these topics are covered in universities, but they are often scattered into different colleges and departments such as business and engineering schools, we believe that there is a need to organize these topics into a coherent curriculum. Once a coherent program is available, we can have a systemic program for research and education. Regarding to research, there is a great need to perform service-oriented system engineering such as service-oriented requirement engineering, service-oriented design, service-oriented model and verification, dynamic service verification and validation, dynamic service maintenance and re-composition, dynamic service security analysis, dynamic service reliability analysis, and dynamic service profiling and collaboration. Regarding to the education, there is a shortage of both skilled people who are knowledge in developing and applying software services in a variety of domains such as e-commerce, bioengineering, process control, and computing and communication infrastructure, and there is a shortage of available instruction materials that can be readily used. The implication of service science has significant implications to current research and education program as it will change the current university education and research programs.

Biography

Dr. Jen-Yao Chung received the M.S. and Ph.D. degrees in computer science from the University of Illinois at Urbana-Champaign. Currently, he is the Chief Technology Officer for IBM Global Electronics Industry, where he is responsible for identifying and growing new technologies into future businesses for IBM. Before that, he was senior manager of the electronic commerce and supply chain department, and program director for the IBM Institute for Advanced Commerce Technology office. Dr. Chung is the co-founder and co-chair of IEEE technical committee on e-Commerce (TCEC). He has served as general chair and program chair for many international conferences, most recently he served as the general co-chair of the IEEE International Conference on e-Commerce Technology (CEC05) and IEEE International Conference on e-Business Engineering (ICEBE05). He has authored or coauthored over 150 technical papers in published journals or conference proceedings. He is a senior member of the IEEE and a member of ACM.

Prof. W. T. Tsai received his Ph.D. (1986) and M.S. (1982) in Computer Science from University of California at Berkeley, CA, and SB (1979) in Computer Science and Engineering from MIT, Cambridge, MA. He is now a professor of Computer Science and Engineering at Arizona State University, Tempe, Arizona. He was on editorial board of IEEE Transactions on Knowledge and Data Engineering, and an IEEE Distinguished Visitor. He has published more than 300 papers in various journals and conferences. His work has been sponsored by NSF, Army Research Laboratory, Guidant, Hitachi Software Engineering, and Fujitsu.

E-Government and the CROWN Project

Jinpeng Huai

*Executive Vice President of Beihang University
(Beijing University of Aeronautics and Astronautics)*

Wide deployment of e-government infrastructure is one of the major national projects in China. Significant progress has been made since the launch of this project in 2003. Three key issues have been extensively investigated. First, an efficient and reliable e-government platform should be constructed to avoid isolated information and application islands. Second, this project aims to establish a national uniform technical standard to avoid unnecessary investments and repetitive constructions. Third, an efficient mechanism should be designed for the industrialization of e-government in order to maximize benefit and provide a productive business model. In this talk, I will introduce current status of e-government in China and major problems we have encountered. I'll also discuss the future directions of China e-government project. This talk will also address an experimental environment for e-government research in our lab, CROWN (China R&D Environment Over Wide-area Network) project. A new model, protocol computing, is used in our design. I will focus on efficient and trustworthy network resource sharing and collaboration of the CROWN project.

Biography



Dr. Jinpeng HUAI is Professor and Executive Vice President of Beihang University, Beijing, China. He serves on the Steering Committee for Advanced Computing Technology Subject, the National High-Tech Program (863) as Chief Scientist. He is a member of Consulting Committee of the Central Government's Information Office, and Chairman of the Expert Committee in both the National e-Government Engineering Taskforce and the National e-Government Standard office. Dr. Huai and his colleagues are leading the key projects in e-Science of the National Natural Science Foundation of China (NSFC) and Sino-UK. He has published over 100 papers and received more than 20 patents. His research interests include middleware, peer-to-peer (P2P) and grid computing, trustworthiness and security.

Can Agent Systems Deliver?

Marcin Paprzycki

*Department of Computer Science
Oklahoma State University, Tulsa*

and

SWPS, University in Warsaw

Since 1994 we are told to believe that software agents will become the next revolution in computer science [5]. This change is to occur not only in the ways we construct software [4] but it is also to have a much broader impact on the field of human-computer interaction [3,5]. Unfortunately, as it is easy to see, the revolution prophesized in 1994 does not seem to materialize (regardless of the rapidly increasing number of conferences, workshops, special sessions, publications, etc). It is not the case that when we turn the computer on in the morning, we contact “our agent” to receive a personalized newscast, our day-plan and, on the basis of that plan as well as the weather forecast and knowledge of our dressing-preferences, an advice what to wear (agent ideal servant). Similarly, when creating software for an e-shop we do not utilize pre-existing agent-modules (e.g. advertising agents, seller agents, inventory managers etc.). To the contrary, it is rather difficult to point to a successful large-scale implementation of an agent system completed using one of the multitude of existing and constantly created agent environments. The aim of the presentation will be three-fold. First, a brief introduction to software agents will be presented followed by the discussion of major points raised “for” and “against” software agent systems (including highly critical analysis presented in [6]). Second, it will be shown, that it is possible to implement large scale agent systems, as state-of-the-art agent platforms (e.g. JADE) easily scale up to more than thousand agents and two hundred thousand messages [1]. Finally, a positive research program will be presented and illustrated by a model agent based e commerce system using negotiating agents with dynamically loadable modules [2].

References

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Biography



Marcin Paprzycki is currently on leave of absence from Oklahoma State University and works as an Associate Professor at the SWPS University in Warsaw, Poland. He has received his M.S. Degree in 1986 from Adam Mickiewicz University in Poznań, Poland and his Ph.D. in 1990 from Southern Methodist University in Dallas, Texas. His initial research interests were in high performance computing and parallel computing, and over time they evolved toward distributed systems and Internet-based computing; in particular, agent systems. He has published more than 200 research papers and was invited to Program Committees of over 200 international conferences. In 2001 he was elected Chair of the IEEE Technical Committee on Supercomputing Applications that he led through a merger that led to the creation of the IEEE Technical Committee on Scalable Computing that he currently co-chairs. He is on editorial boards of 8 journals and book series.

Solutions Innovation, Solutions Engineering for Industry Solutions

Catherine Lasser

*Vice President, Industry Solutions and Emerging Business
IBM T.J. Watson Research Center*

What is Innovation? It's not always about inventing something entirely new. Innovation occurs at the intersection of invention and business insight. Creating industry solutions is not about doing something new for every client's problem, it is about creatively solving business problems with reusable assets or building blocks. It is about using a systematic process to solve clients business and infrastructure problems for speed and quality.

Creating a discipline, can we quickly and easily create and manage solutions? Changing business environments require quick changes, new business models and new solutions. In IBM, we are using a Solutions engineering approach to change the way we work with the solutions lifecycle. Business drivers, process enablers and lessons learned will be presented.

Biography



Cathy was appointed Vice President, Industry Solutions and Emerging Business for the Research division in September 2004. She is responsible for connecting research with industries to focus innovation on the application of technology to real-world problems. Her mission is to create a tight linkage between the research community and our sales organization and to create and manage new emerging businesses. Prior to this position, Cathy was Vice President of Global productivity and Employee IT advocate in the CIO organization. Her focus was on, improving and expanding the IT services, support and function to our employees. She provided a single point of contact for managing contracts, operations and measurements with service providers such as those with the IBM Global Account, AT&T, and others around the world.

Cathy joined IBM in 1978 as a programmer supporting Test Engineering in Endicott, New York. Within a year, she moved to the New York tri-state area where she has held various programming and team lead positions. In 1982, Cathy joined the IBM Credit Corporation where she developed and managed the information center and advanced technology development departments. She then moved to the corporate common financial systems organization as a development manager. In 1993, Cathy joined the PC Company where her organization was responsible for executive information systems, decision support systems and manufacturing process support. She then went to IBM Research in 1996 as Executive Assistant to the Senior Vice President of Research. In 1997, Cathy was appointed as the CIO for the Research Division. Cathy joined the CIO organization in 2001 as Vice President of B2B Initiatives. Cathy had worldwide responsibility for enabling IBM as a world class participant in the B2B environment.

Cathy holds a BS in Mathematics/Computer Science from SUNY Binghamton and an MBA in Finance from Iona College. In addition to her IBM responsibilities, Cathy's activities have included: Secretary, Board of Education, Brookfield, CT School District; Chair Curriculum Committee, Brookfield, CT School District; Member of National Science Foundation Business and Operations Committee; National Academy of Engineering committee on diversity in the technical work force; Smith College, Advisory Board for school of engineering; Justice of the Peace, State of Connecticut.

Conference Program

October 17, 2005

15:00 - 18:00	Registration at Conference Hotel
18:00 - 20:00	Welcome Dinner at Conference Hotel (Tsinghua Unisplendour International Center)

October 18, 2005, Morning

	Track 1	Track 2	Track 3	Track 4
08:45 - 09:00	Opening Remarks			
09:00 - 10:15	Keynote 1: <i>Future Trends and Directions for e-Business Engineering</i> Jen-Yao Chung and Wei-Tek Tsai Chair: Guoqing Chen			
10:15 - 10:45	Coffee Break			
10:45 - 12:25	Session 1 Software Architecture for e-Business Chair: William Cheung	Session 2 Agents Chair: Ying Chen	Session 3 Business Modeling Chair: Shiwa Fu	Session 4 Mobile and Pervasive Commerce Chair: Katina Michael
	Evolution of the Intel's e-Business Data Center toward a Service-Oriented Infrastructure <i>J. He, M. Chang, and E. Castro-Leon</i> Distributed Policy Specification and Enforcement in Service-Oriented Business Systems <i>W. T. Tsai, X. Liu, and Y. Chen</i> Enabling Customer-Driven Processes in Value-Added Networks Using an Architecture for E-collaboration <i>O. Adam, P. Chikova, and A. Hofer</i> Designing a Material Analysis Collaboratory for the Process Industry <i>H. de Vos, R. van Buuren, W. Janssen, and A. Tokmakoff</i>	Market Agents with a Sense for Mechanisms <i>S. Luckner, D. Rolli, C. Momm, and C. Weinhardt</i> Enable Efficient Stage Construction for Replication Based Fault-Tolerant Execution of Mobile Agent <i>Z. Lu, Y. Zhong, G. Zeng, and G. Yang</i> Exception Handling in Distributed Workflow Systems Using Mobile Agents <i>J. Cao, J. Yang, W. T. Chan, and C. Xu</i> UML Models of Agents in a Multi-Agent E-commerce System <i>C. Badica, M. Ganzha, and M. Paprzycki</i>	Supporting Web User Interface Prototyping through Information Modeling and System Architecting <i>X. Kong, L. Liu, and D. Lowe</i> A Model Driven XML Transformation Framework for Business Performance Management <i>S.-K. Chen, H. Lei, M. Walther, H. Chang, K. Bhaskaran, and J. Frank</i> Normal Forms and Normalized Design Method for Business Services <i>Z. Wang, X. Xu, and D. Zhan</i> An Agile Method of Modeling Business Process Simulation for Virtual Enterprises <i>S. W. Cheng, X. F. Xu, G. Wang and Q.L. Li</i>	SCOUT Contextually Organizes User Tasks <i>D. Sow, M. Ebling, R-P. Lehmann, J. Davis, and L. Bergman</i> Modeling and Reasoning about Uncertainty in Context-Aware Systems <i>B. A. Truong, Y.-K. Lee, and S.-Y. Lee</i> A Hybrid Dialogue Strategy for Speech-Enabled Mobile Commerce (455) <i>Y. Fan and E. A. Kendall</i> Mobile RFID Technology for Improving M-commerce <i>W. Zhu, D. Wang, and H. Sheng</i>
12:25 - 13:30	Lunch at Conference Venue (Tsinghua School of Economics and Management)			

October 18, 2005, Afternoon

<p>13:30 - 15:10</p>	<p>Industry Track 1 Invited Talks Chair: <i>Hong Cai</i></p>	<p>Session 5 Workflows Chair: <i>Elizabeth Kendall</i></p>
	<p>E-Government Challenges in China <i>K. Wang</i></p> <p>Credit & Risk Management in Banks Today <i>D. Huang</i></p> <p>Business Intelligence—A Case Study in Life Insurance Industry <i>Z. Xu, M. Zhang, and X. Jiang</i></p>	<p>An Extended Petri net for Modeling Workflow with Critical Sections <i>Y. T. Kotb and A. S. Baumgart</i></p> <p>Combination of RSS Newsfeeds and Forms for Driving Web-Based Workflow <i>D. Bourges-Waldegg and C. Hoertnagl</i></p> <p>ARDE: A Novel Framework to Define Workflow Participants <i>Q. Deng, J. Liu, and Q. Zhang</i></p> <p>Research on Workflow Process Structure Verification <i>H. Ling and J. B. Zhou</i></p>

October 18, 2005, Afternoon

15:10 - 15:40	Coffee Break			
15:40 - 17:20	Session 6 Business Analysis Chair: <i>Jinghua Huang</i>	Session 7 IT Models Chair: <i>Yue-Shi Lee</i>	Session 8 Recommender Systems Chair: <i>Daniel Rolli</i>	Session 9 Data Mining Chair: <i>Martin Hepp</i>
	<p>The Sensitivity Study on Investment Expenditures and ICF of the Listed Company in China IT Industry * <i>Y. Li, H. Yao, N. Li, and Q. Zhang</i></p> <p>The Nexus between Information Technology and Competitive Strategy: A Conceptual Framework and its Hypotheses * <i>L. K. Huang, Y. J. Lin, and T. T. Lin</i></p> <p>Comprehensive Evaluation of E-commerce Website Based on Concordance Analysis * <i>J. Chang and G. Xia</i></p> <p>CRM Systems Used for Targeting Market: A Case at Cisco System * <i>R. Bhaskar and Y. Zhang</i></p> <p>Consistency Analysis of Interorganizational Processes Based on Activity Diagrams * <i>Z. Yan</i></p> <p>Quantitative Analysis of Enterprise's Logistics Capability Based on Supply Chain Performance * <i>X. Liu and S. Ma</i></p> <p>A Model and Algorithm for Out-Sourcing Planning * <i>X. Liu, C. Wang, X. Luo, and D. Wang</i></p>	<p>Towards a Trust Model with Uncertainty for e-Commerce Systems <i>G. Zhang, J. Kang, and R. He</i></p> <p>E-business Software Architecture Based on Temporal ECA Rules and Actions Conflicts Management * <i>H. Wan and L. Li</i></p> <p>Ontology-Based E-Catalog Matching for Integration of GDSN and EPCglobal Network * <i>J. Z. Huang, F. Tang, Y. Ye, G. Huang, and M. Li</i></p> <p>Research on Modeling Resources Based on Web Service Technologies in Manufacturing Grid * <i>S. Shi, H. Yang, R. Mo, Z. Chang, and Z. Chen</i></p> <p>A Context-Aware Role-Based Access Control Model for Web Services * <i>H. B. Shen and F. Hong</i></p> <p>Adding Physical Optimization to Cost Models in Information Mediators * <i>J. Hidalgo, A. Pan, J. Losada, and M. Alvarez</i></p>	<p>Community Cooperation in Recommender Systems <i>A. Desmarais-Frantz and E. Aimeur</i></p> <p>Context Enabled Multi-CBR Based Recommendation Engine for E-commerce <i>Prashant K., Srividya G., and Sridhar V</i></p> <p>Personalized E-commerce Recommendations <i>P. Markellou, I. Mousourouli, S. Sirmakessis, and A. Tsakalidis</i></p> <p>Efficient Content Locating in Peer-to-Peer Systems * <i>H. Chen, Z. Huang, and Z. Gong</i></p>	<p>Design and Implementation of Commerce Data Mining System Based on Rough Set Theory <i>Y. Xiang, W. Wu, H. Mao, and Q. Song</i></p> <p>An Integrated Rule-based and Case-Based Reasoning System for Customer Service Management <i>L. An, J. Yan, and L. Tong</i></p> <p>An Efficient Incremental Algorithm for Mining Web Traversal Patterns <i>S.-J. Yen, Y.-S. Lee, and M.-C. Hsieh</i></p> <p>Improving Associative Classification by Incorporating Novel Interestingness Measures <i>L. Yu, D. Janssens, G. Q. Chen, and G. Wets</i></p>
18:30 - 20:30	Reception at Conference Hotel (Tsinghua Unisplendour International Center)			
20:30 - 21:30	Tour of Tiananmen Square and Vicinity			

October 19, 2005, Morning

08:45 - 10:00	Keynote 2 E-Government and the CROWN Project Jinpeng Huai Chair: Lionel Ni			
10:00 - 10:15	Web Services Challenge Report			
10:15 - 10:45	Coffee Break			
10:45 - 12:25	Session 10 Business Performance Management Chair: Qiang Wei	Session 11 Content Retrieval Chair: Xiaoying Kong	Industry Track 2 e-Business Innovations Chair: Min Wang	Session 12 Theoretical Foundations of e-Business Chair: William Song
	<p>A Hybrid Approach for Dynamic Business Process Mining Based on Reconfigurable Nets and Event Types <i>N. Li, J. Kang, and W. Lv</i></p> <p>Model-Driven Business Performance Management <i>L. Zeng, H. Lei, M. Dikun, H. Chang, K. Bhaskaran, and J. Frank</i></p> <p>Measurement-Based Performance Analysis of E-commerce Applications with Web Services Components <i>V. Datla and K. Goševa-Popstojanova</i></p> <p>Policy Specification and Matching for Business Performance Management <i>J.-J. Jeng</i></p>	<p>Extraction of Keyterms by Simple Text Mining for Business Information Retrieval <i>X. Gao, S. Murugesan, and B. Lo</i></p> <p>Efficient Content Location Based On Interest-Cluster in Peer-to-Peer System <i>X. Tong, D. Zhang, and Z. Yang</i></p> <p>CRANAI: A New Search Model Reinforced by Combining a Ranking Algorithm with Author Inputs <i>J. Lai and B. Soh</i></p> <p>A Hierarchical Nonparametric Discriminant Analysis Approach for a Content-Based Image Retrieval System <i>K.-P. Chung and C. C. Fung</i></p>	<p>Enhancing Web Services Availability <i>M. Thomas, J. Thomas, and S. Abraham</i></p> <p>A Model-Driven Approach to RFID Application Programming and Infrastructure Management <i>H. Chen, P. B. Chou, S. Duri, J. G. Elliott, J. M. Reason, and D. C. Wong</i></p> <p>Supporting Organizational E-learning <i>I. Douglas</i></p> <p>An Administration Model of DRBAC on the Web <i>Q. Li, J. Shi, and S. Qing</i></p> <p>Using Resource and Portfolio Management Solution to Align IT Investment with Business <i>R. Cao, W. Ding, and C. Tian</i></p>	<p>An Efficient, Low-Cost Inconsistency Detection Framework for Data and Service Sharing in an Internet Scale System <i>Y. Lu, H. Jiang, and D. Feng</i></p> <p>A Study of Signaling Game and its Bayesian Equilibrium in CRM <i>Q. J. Yin and R. C. Gan</i></p> <p>Sweep Based Multiple Ant Colonies Algorithm for Capacitated Vehicle Routing Problem <i>Z. Liu and Y. Cai</i></p> <p>QoS Measurement Issues with DAML-QoS Ontology <i>C. Zhou, L.-T. Chia, and B.-S. Lee</i></p>
12:25 - 13:30	Lunch at Conference Venue (Tsinghua School of Economics and Management)			

October 19, 2005, Afternoon

13:30 - 15:10	Session 13 Location-Based Services Chair: Lu Liu	Session 14 Grid and Peer-to-Peer Chair: Jackson He	Session 15 Business Transformation Chair: Steven Miller	Session 16 Data Access Chair: Althea Qianhui Liang
	<p>Integration of Telematics for Efficient Management of Carrier Operations <i>A. Goel and V Gruhn</i></p> <p>Humancentric Applications of Precise Location Based Services <i>L. Perusco and K. Michael</i></p> <p>Location Aware Messaging-Integrating LBS Middleware and Converged Services <i>Y. Chen, W. Lu, X. Chen, L. Tang, F. Rao, Q. Wang, and L. Zhang</i></p> <p>A Locating Method for WLAN Based Location Service <i>V. Lang and C. Gu</i></p>	<p>GridPML: A Process Modeling Language and History Capture System for Grid Service Composition <i>H. Ma, S. D. Urban, Y. Xiao, and S. W. Dietrich</i></p> <p>S-Club: An Overlay Based Efficient Service Discovery Mechanism in CROWN Grid <i>C. Hu, Y. Zhu, J. Huai, and Y. Liu</i></p> <p>A New Micro-payment Protocol Based on P2P Networks <i>J. Zou, T. Si, L. Huang, and Y. Dai</i></p> <p>A Gateway Replication Scheme for Improving the Reliability of Mobile-to-Grid Services <i>T. M. Trung, Y-H. Moon, C-H. Youn, J-J. Cho, and S-J. Jeong</i></p>	<p>E-commerce Success Factors: Exploratory and Empirical Research on the Chinese Publishing Industry <i>J. Huang, H. Wang, and C. Zhao</i></p> <p>Business Component Identification of Enterprise Information System: A Hierarchical Clustering Method <i>F-C. Meng, D-C. Zhan, and Z-F. Xu</i></p> <p>Reliable and Efficient Communication Model of Migrating Instance to Enable Self-Organization of Dynamic Alliance <i>Z. Lu, G. Zeng, and G. Yang</i></p> <p>Capacity Allocation for Business Processes with QoS Requirements: A Heavy Traffic Approach <i>P. Huang</i></p>	<p>Optimizing Path Expression Queries of XML Data <i>Y. Li, P. Yi, and Q. Li</i></p> <p>Update of Materialized WebView <i>B. Zhang, Z. Sun, and W. Jin</i></p> <p>Research of Semantic Caching for LDQ in Mobile Network <i>Z. Li, P. He, and M. Lei</i></p> <p>Frequency Operators for Condensative Queries over Data Streams <i>L. Ma and W. Nutt</i></p>
15:10 - 15:40	Coffee Break			

October 19, 2005, Afternoon

15:40 - 17:20	Session 17 Business Processes and Services Chair: Lance Fung	Session 18 Data Adaptation and Integration Chair: Ying Huang	Session 19 Service Selection and Composition Chair: Liangzhao Zeng	Session 20 e-Commerce Enablement Chair: David Flaxer
	<p>Correctness Verification of Synchronization Based Workflow Model * <i>J. Cai, W. Zhao, S. Zhang, and L. Wang</i></p> <p>Adoption of Mobile Services in Business-Case Study of Mobile CRM * <i>P. Alahuhta, H. Helaakoski, and A. Smirnov</i></p> <p>HRIC: Hybrid Resource Information Service Architecture Based on GMA * <i>H. Zou, H. Jin, Z. Han, X. Shi, and H. Chen</i></p> <p>A Petri Net Extended With Stochastic Priced Transition * <i>X. M. Liu, S. X. Li, and Y. Jiang</i></p> <p>A Web-based PLM System Research and Implementation in a Collaborative Product Development Environment * <i>H-Y. Li, X. Liu, G-Q. Feng, and C-E. Wang</i></p> <p>Public RFID Service Platform Based on ASP Model * <i>J. Wu, D. Wang, and H. Sheng</i></p> <p>Semantic Business Process Management: A Vision towards Using Semantic Web Services for Business Process Management * <i>M. Hepp, F. Leymann, J. Domingue, A. Wahler, and D. Fensel</i></p>	<p>A Quantitative Analysis of eCI@ss, UNSPSC, eOTD, and RNTD: Content, Coverage, and Maintenance <i>M. Hepp, J. Leukel, and V. Schmitz</i></p> <p>An Intelligent Event Adaptation Mechanism for Business Performance Monitoring <i>S. S. Fu, T. C. Chieu, J.-S. Yih, and S. Kumaran</i></p> <p>Managing E-Commerce Catalogs in a DBMS with Native XML Support <i>L. Lim and M. Wang</i></p> <p>Data Partitioning over Data Streams Based on Change-Aware Sampling * <i>Y. Wang, H. Xu, Y. Dong, C X. Liu, and J. Qian</i></p> <p>Dempster-Shafer Evidence Theory of Information Fusion Based on Info-evolutionary Value for E-business with Continuous Improvement * <i>Z. Yu, Y. Tian, and B. Xi</i></p>	<p>A Rumor-Spreading Model of Service Advertisement Forwarding in Decentralized E-commerce * <i>D. Zhang, F. Gao, and Z. Yang</i></p> <p>FECT: A Framework for Automatic Composition of Web Services * <i>L. Hou, Z. Jin, and B. Wu</i></p> <p>Web-based Application Services Composition for e-Business * <i>Y. Mei, Z-C. Chen, and F. Zhang</i></p> <p>Web Service Composition Using Integer Programming-Based Models * <i>A. Gao, D. Yang, S. Tang, and M. Zhang</i></p> <p>Web Services Automatic Composition Based on QoS * <i>J. Liu, N. Gu, Y. Zong, Z. Ding, S. Zhang, and Q. Zhang</i></p> <p>Combining QoS-Based Service Selection with Performance Prediction * <i>Z. Gao and G. Wu</i></p> <p>eDSR: A Decentralized Service Registry for e-Commerce * <i>Y. Li, X. Huang, F. Zou, and F. Ma</i></p>	<p>Towards Semantic Service Request of Web Service Composition <i>Q. A. Liang, J.-Y. Chung, and S. Miller</i></p> <p>A Lightweight Mutual Authentication Protocol for RFID Networks <i>Z. Luo, T. Chan, and J. S. Li</i></p> <p>Internet Pricing with Multiple Demands for Quality of Service Option * <i>G. Zhang and Z. Liu</i></p> <p>Stochastic Inventory Routing Problem under B2C E-commerce * <i>B. Xie, S. An, and J. Wang</i></p> <p>Prediction of the Running Time of Tasks Based on Load * <i>J. Yuan, S. Ding, J. Ju, and L. Hu</i></p> <p>A System Model and Protocol for Mobile Payment * <i>J. Liu, J. Liao, and X. Zhu</i></p>
17:20 - 18:30	Tsinghua Campus Tour			
18:30 - 21:00	Conference Banquet (Tsinghua Campus Restaurant)			
	Keynote 3 Can Agent Systems Deliver? Marcin Paprzycki Chair: Jen-Yao Chung			

October 20, 2005

08:45 - 09:00	Program Announcement			
09:00 - 10:15	Keynote 4 Solutions Innovation, Solutions Engineering for Industry Solutions Catherine Lasser Chair: James Yeh			
10:15 - 10:45	Coffee Break			
10:45 - 12:25	Session 21 Business Integration Chair: Ian Douglas	Session 22 Web Services Chair: Katerina Goseva-Popstojanova	Session 23 Linking Business and IT Chair: Han Chen	Industry Track 3 Case Studies Chair: Zhong Tian
	<p>Supporting Development and Evolution of Service-Based Processes <i>M. Henkel and J. Zdravkovic</i></p> <p>A Novel Approach for Enacting the Distributed Business Workflows Using BPEL4WS on the Multi-agent Platform <i>L. Guo, D. Robertson, and Y.-H. Chen-Burger</i></p> <p>Enterprise Integration and Monitoring Solution Using Active Shared Space <i>P. Chowdhary, L. An, J.-J. Jeng, and S.-K. Chen</i></p> <p>A Framework for Service-Oriented Business Integration under Uncertainty <i>Y. Huang, Y. Li, and K-M. Chao</i></p>	<p>Quality Driven Web Services Selection <i>J. Hu, C. Guo, H. Wang, and P. Zou</i></p> <p>A Web Services Provisioning Optimization Model in a Web Services Community <i>Z. Luo and J. S. Li</i></p> <p>Business Integration Models in the Context of Web Services <i>W. Song, D. Chen, and J-Y. Chung</i></p>	<p>Venture Firms Value Analysis: A Control Rights Allocation Model <i>S. An, J. Wang, Z. Zhao, and L. He</i></p> <p>Research on an Intelligent On-Line Negotiation System <i>Y. L. Fei and G. M. Wang</i></p> <p>Mass Customization Model in Cluster Supply Chain Based on 2P&2BP <i>J. Li and C. Liu</i></p> <p>Who Are the Target Customers in Chinese Online Game Market? Segmentation with a Two-Step Approach <i>S. C. Lee, J.-Y. Xiang, and L.-B. Jing</i></p>	<p>Portals at BNP Paribas: A Brief Testimony <i>M. Idelson</i></p> <p>Refining Production Strategy Optimization Model Based on Mixed Bi-level Programming Method <i>W. Wang, W. Mei, Q. Zhang, and Z-F. Li</i></p> <p>Using a Component Business Model to Facilitate Business Enterprise Architecture and Business Services at the US Department of Defense <i>D. Flaxer, A. Nigam, and J. Vergo</i></p> <p>Study and Applications of Data Mining to the Structure Risk Analysis of Customs Declaration Cargo <i>Y. Li and L. Sun</i></p> <p>Proactive Business Performance Management in the Book Distribution Industry <i>K. Fujiwara, A. Koide, and M. Saitoh</i></p>
12:25 - 12:40	Closing			
12:40 - 13:40	Lunch at Conference Venue (Tsinghua Unisplendour International Center)			
13:40 - 21:00	Tour of the Great Wall and Closing Dinner			

EVENT LOCATIONS

IEEE International Conference on e-Business Engineering (ICEBE 2005)

October 18-20, 2005

Tsinghua University, Beijing, China

- **Registration:** Lobby, 1st floor, Tsinghua Unisplendour Hotel (15:00-18:00, October 17)
Lobby, 4th floor, Shunde Building, SEM (07:30-17:00, October 18-19)
- **Welcome Dinner:** Lobby, 1st floor, Tsinghua Unisplendour Hotel
- **Reception:** Ball room, 2nd floor, Tsinghua Unisplendour Hotel
- **Dinners:** Ball room, 2nd floor, Tsinghua Unisplendour Hotel
- **Secretary desk:** Lobby, 4th floor, Shunde Building, SEM
- **Banquet:** Tsinghua Campus Restaurant
- **Opening session and keynote speech:** Multi-functional room, 4th floor, Shunde Building, SEM
- **Parallel Sessions:** Shunde Building, 4th Floor, SEM

Parallel Sessions 1, 6, 10, 13, 17, 21 Industry Track 1	Multi-functional Room 1, 4 th Floor, Shunde Building
Parallel Sessions 2, 7, 11, 14, 18, 22 Industry Track 2	Multi-functional Room 2, 4 th Floor, Shunde Building
Parallel Sessions 3, 8, 15, 19, 23	Multi-functional Room 3, 4 th Floor, Shunde Building
Parallel Sessions 4, 5, 9, 12, 16, 20 Industry Track 3	North 302, 3 rd floor, Shunde Building

- **Lunch:** Lobby, 4th floor, Shunde Building, SEM
- **Closing Session:** Multi-functional room, 4th floor, Shunde Building, SEM

VENUE

ICEBE2005 will be held in School of Economics and Management, Tsinghua University, Beijing China. A brief introduction is as followed:

School of Economics and Management (SEM)

Tsinghua SEM, founded in 1984, is one of the first such schools in China since the country began to implement its reform and opening-up policy in 1978. Backed up by a strong faculty, SEM currently offers 5 doctoral programs and 9 master's programs. The school also houses a good number of research centers such as Technology Innovation Strategy and Management Research Center of the State Science Commission, National Economy Research Center, China Business Research Center of Tsinghua University, National Entrepreneurship Research Center, Research Center for Contemporary Management, and China Center for Finance Research. The number of national key disciplines at SEM is ranked as first among schools of economics and management nationwide.

The two buildings of SEM, Weilun and Shunde, cover a total area of 31,000 square meters. The facilities include a international lecture hall, multimedia classrooms, discussion rooms, a library and information center, MBA case study center and laboratories for management information system, financial engineering, soft science, ERP (Enterprise Resources Planning), accounting and e-commerce as well as a language lab. The academic environment and equipment have both reached the international standard.

The Advisory Board of Tsinghua SEM was established in October 2000. It consists of an exceptional gathering of over 30 members, mostly chairmen or CEOs from the world's leading multinationals as well as internationally renowned scholars. The constructive provided by board members has already played and important role in the development of Tsinghua SEM and will continue to help the school move towards one of the World-class business schools.

Tsinghua University

Situated on several former royal gardens of the Qing Dynasty, surrounded by a few historical sites in northwest Beijing, is the campus of Tsinghua University. The garden-like landscape, with the Wanquan River meandering through, has inspired and motivated generations of students.

Tsinghua University was established in 1911 originally as "Tsinghua Xuetang," a preparatory school for students who would be sent by the government to study in universities in the United States. The school was renamed "Tsinghua School" in 1912. The university section was instituted in 1925 and undergraduate students were then enrolled. The name "National Tsinghua University" was adopted in 1928, and in 1929 the Research Institute was set up.

After the founding of the People's Republic of China, the university was molded into a polytechnic institution focusing on engineering in the nationwide restructuring of universities and colleges undertaken in 1952. Tsinghua has flourished since 1978, with the re-establishment of the departments in sciences, economics and management, and the humanities. The Tsinghua graduate school has been recognized nationally, ranking first in the National Evaluation of Graduate Schools. The School of Continuing Education makes the best use of modern information technologies, as well as the advanced educational resources at Tsinghua. Currently, the university consists of 44 departments distributed in 11 schools. Tsinghua is developing into a comprehensive university at a breathtaking pace.

With a splendid legacy accumulated over the past 90 years, Tsinghua has retained its character and charm while promoting rigorous scholarship research, ensuring academic and educational prestige in China and abroad. The university currently has over 7,100 faculty and staff, with over 900 full professors

and 1,200 associate professors, including 24 members of the Chinese Academy of Sciences and 24 members of the Chinese Academy of Engineering.

The educational philosophy of Tsinghua is to "train students with integrity." Among the over 100,000 students who have graduated from Tsinghua since its founding are many outstanding scholars, eminent entrepreneurs and great statesmen remembered and respected by their fellow Chinese citizens. Hence, to study at Tsinghua is the dream of many Chinese youth. Presently, Tsinghua has over 20,000 students, including 12,000 undergraduates, 6,200 master's degrees candidates and 2,800 doctoral candidates.

With strong support from the nation and in the face of unprecedented opportunities, Tsinghua University is poised to become a world-class university in the 21st century. With the inspiring motto "Self-discipline and Social Commitment," Tsinghua is dedicated to the well being of Chinese society.

Beijing

Beijing, the capital of the People's Republic of China, is the center of the nation's politics, culture and international exchanges and a modern metropolis full of vitality. The city had been the capital of the Jin, Yuan, Ming and Qing dynasties until 1911. A long history has left numerous famous historical sites which possess great aesthetic and cultural values. The Great Wall, a huge project begun more than 2000 years ago, meanders through mountains and valleys for hundreds of kilometers in the region of Beijing. On the Shijing Mountains, there are more than 340 volumes of 15000 stone tablets carved with Buddhist scriptures. The Big Yongle Bell cast at one go with over 23000 characters on it Weighs 46.5 tons and shows exquisite casting technology of ancient China. The Forbidden City, the largest ancient architectural complex extant today, is splendid crystallization of ancient Chinese architectural art. Walking in the city, one may find many places where many historical events took place, every day, hundreds of thousands of people, domestic and foreign, come to Beijing to visit its grand palaces and graceful gardens and to enjoy its marvelous art.

Beijing is situated at 40 degrees north latitude and 116 degrees of longitudes. It is 43 meters above sea level and 183 kilometers from the sea. Beijing covers an area of 16,800 square kilometers, 38% of it is flat land and 62% mountains. Beijing has a continental climate. Annual rainfall averages nearly 700 millimeters, most of it comes in July and August. Winter is dry and has little snow. The frost-free period is 185 days. the best time to visit Beijing is May, September and October, when people enjoy bright sunny day.

Beijing has a population of 10.855 million, about 5 million live in the city proper and the rest on the outskirts. It is divided into 12 districts and 6 counties.

Through more than 40 years of construction, Beijing has changed from a consumer-city to a major city with various industries. Beijing ranks second among the top 50 cities in China in terms of comprehensive power, and is the first among the 40 best cities in China in terms of investment environment.

With China's reform and opening up, Beijing is improving urban construction on an unprecedented scale. Its speed of development is astonishing and it brings about changes day by day. Around this graceful ancient capital, a large number of key national projects, massive infrastructure buildings and modern residential houses have sprung up. Wasteland and low, dilapidated houses are gradually disappearing, replaced by newly-built residential quarters of different styles and surrounded by greenbelts. Wide and smooth highways, magnificent overpasses and expressways link Beijing with its neighboring provinces and cities. And eye-catching green trees and gardens have made Beijing resemble a huge scroll of painting pleasing to both the eye and the mind.

ICEBE 2005 Conference Hotel

Tsinghua Unisplendour international center (清华紫光国际会议中心)



Located at the East Gate of Tsinghua University, Tsinghua Unisplendour International Center is a Four-Star commercial hotel with Chinese and Western Restaurants, Meeting rooms, Multifunction Hall and Entertainment rooms as well as 175 suits of guest rooms.

Tsinghua Unisplendour International Center (Conference registry, 4 star, breakfast included, 10 minutes walk to conference rooms)

Map for Tsinghua Unisplendour International Center



Information

Currency and Payments

The currency used in China is Reminbi Yuan (RMB). The exchange rate between USD and RMB at present is about \$1 USD to RMB ¥8.2 Yuan. Credit cards such as Visa, American Express and Master Card are acceptable at large hotels, restaurants and shopping centers and can be cashed at airport or in the branches of the Bank of China.

Temperature

The climate in Beijing is of the continental type. The summers are hot owing to warm and humid monsoon winds from the southeast bringing Beijing most of its annual precipitation.

City	Temperature/month	October
Beijing	Average High(^o C/ ^o F)	19C/66F
	Average Low(^o C/ ^o F)	6C/43F
	Max(^o C/ ^o F)	28.9C/84F
	Min(^o C/ ^o F)	-2.2C/28F

Electricity

The electrical voltage in China is 220V. Most hotels provide 110V outlets for electric razors.

Transportation - from the Airport

- Generally, the fee for taxi from Beijing Capital Airport to Tsinghua University is about 80RMB ~ 150RMB (about US\$10~US\$20); the fee for taxi from Beijing Capital Airport to Conference Hotel is the same.
- Shunde Building, School of Economics and Management, is located to the east gate of Tsinghua University. You can get off there. The following card may be useful for communicating with taxi drivers.

Please send me to the east gate of Tsinghua University

请送我到清华大学东门

Internet Access

HIGH SPEED INTERNET ACCESS IS AVAILABLE FROM 8:00-18:00, IN MIS LAB (MID 103), 1ST FLOOR, SHUNDE BUILDING, SCHOOL OF ECONOMICS AND MANAGEMENT.

CONTACT

ICEBE 2005 Secretariat

Ms. ZHANG Li (张丽)
School of Economics and Management
Tsinghua University, Beijing 100084, China
Tel: (8610)51534928 Fax: (8610)62789925
Email: zhangl34@em.tsinghua.edu.cn
Mobile: (86)13811453058

Ms. SUN Ronglin (孙荣玲)
Tel: 86-10-62785525, Fax: 86-10-62785876
Email: sunrl@em.tsinghua.edu.cn

MAP OF TSINGHUA UNIVERSITY



About 2km

MAP OF BEIJING CITY



IEEE Technical Committee on Electronic Commerce (TCEC)

In the past few years, e-commerce has successfully established itself as a significant community in most international professional computer science and IT societies. The scope of e-commerce research has expanded with technologies and is nowadays focusing on all aspects of enterprise computing. E-Commerce draws on a variety of established disciplines such as computer science, operations research, and business administration and develops new technologies and methods geared toward business process innovation (i.e., optimizing existing or creating new business processes) for the purpose of optimizing business objectives. It is based on interdisciplinary domain knowledge, and must deal with the significant problem size involving world-wide system operations, as well as the real-time adaptation to changing system and market conditions. The Technical Committee on Electronic Commerce (TCEC) acts as an international forum to promote E-Commerce research and education, and participate in setting up technical standards in this area. Issues related to the design, analysis and implementation of E-Commerce systems and solutions are of interest. The Technical Committee on Electronic Commerce (TCEC) sponsors professional meetings, publishes newsletters and other documents, sets guidelines for educational programs, and it helps co-ordinate academic, funding agency, and industry activities in the above areas. The TCEC organizes annual conferences such as the Conference on E-Commerce Technology or the Conference on E-Technology, Ecommerce and E-Service.

To become a member of the IEEE Computer Society TCEC, please visit our web site at <http://tab.computer.org/tcec/>. Join us today, and be connected to the worldwide community of e-commerce professionals and experts.