

Message from the Conference Chairs and Program Chairs

EEE'05

Welcome to the 2005 IEEE International Conference on e-Technology, e-Commerce and e-Service (EEE'05). On behalf of the EEE'05 Conference Committees, we would like to thank you for attending this conference and we hope that you will enjoy both technical as well as social programs of this conference.

The development of e-commerce/e-business, since the dot.com era, has gradually migrated from solely e-technology driven to a more matured status where enterprises leverage on both new opportunities brought by advanced e-technologies and unique e-commerce/e-business strategies for the objectives including operational cost saving and value-adding services provision. The more seamlessly people expect the new generation e-applications to support e-business activities, the deeper and more sophisticated penetration of e-technologies into business processes will be required, leading to eventually more radical transformation of the underlying processes (e-transformation). It is the multi-disciplinary nature of this field that makes the broad and crosscutting characteristics of this EEE Conference series especially meaningful and influential. Following the great success of the first meeting held in Taipei, Taiwan in 2004, the 2005 IEEE International Conference on e-Technology, e-Commerce and e-Service (EEE'05) was held in Hong Kong from March 29, 2005 to April 1, 2005. It aims to bring together researchers and developers from diverse areas of computing, developers and practitioners to explore and address the challenging research issues on e-technology in order to develop a common research agenda and vision for e-commerce and e-business.

Being the second edition, we are pleased to report that we received close to 300 submissions coming from more than 30 different regions of the world. All the submissions to this conference have undergone a rigorous peer-reviewing and paper selection process. Out of the received submissions, 136 high quality papers were selected for presentation in the conference, where 74 were accepted as regular papers (~25%) and 62 (~21%) as short papers. We would like to express our gratitude to all the Program Committee members for their professional reviews to help ensure a high-quality conference program. In addition, we would like to thank all the paper authors for their submissions and diligence in preparing the final manuscripts. In addition, EEE'05 features distinguished keynote speakers (Prof. Katia Sycara from Carnegie Mellon University, Dr. David Cohn from IBM Research, Dr. Li Gong from Sun Microsystems China Engineering and Research Institute), as well as tutorials, workshops and panel discussions on timely research issues related to different e-themes. Furthermore, EEE'05 features the inauguration of a new competition named the *EEE Challenge*. The aim of the competition is to provide a benchmarking platform for evaluating the state-of-art e-technologies. The 2005 EEE Challenge focuses on autonomous service discovery and service composition. Technical descriptions of the short-listed teams are also included in this proceeding.

Here, we would like to express our special gratitude to Workshop Chair (Joseph Ng), Tutorial Co-Chairs (Andreas Wombacher and Alvin Chan), Panel Chair (Timon Ching-Ting Du), EEE Challenge Co-Chairs (M. Brian Blake and Kwok-Ching Tsui) for their professional and persistent efforts throughout the year; and to Advisory Committee (Chung-Jen Tan, Heinrich Mayr, Janming Ho, Jen-Yao Chung, Jiming Liu, Keith C.C. Chan, Kwei-Jay Lin, Lionel Ni and Soe-Tsyr Yuan) for their support and advices. Special thanks should go to Organizing Chair (Kelvin C.K. Wong), Publication Chair (Xiaowen Chu), Publicity Co-Chairs (Patrick C. K. Hung, Pascal van Eck, Luc Moreau), Registration and Finance Chair (Chun-hung Li), and Sponsorship Co-Chairs (Benjamin Yen, Timon Ching-Ting Du) who make the organization of EEE-05 extremely efficient and smooth. Finally, we'd like to thank the conference web master (Hoi-Fai Wong) for his professional web site design and maintenance effort, and China Travel Conference & Event Management Co. for providing excellent service in handling all the registration related matters.

The conference was organized by Centre for e-Transformation Research (CTR), Hong Kong Baptist University, and was sponsored by IEEE Computer Society Technical Committee on Electronic Commerce (TCEC), Hong Kong Baptist University (HKBU), and National ICT Australia Limited (NICTA). We are grateful to their generous support to EEE'05.

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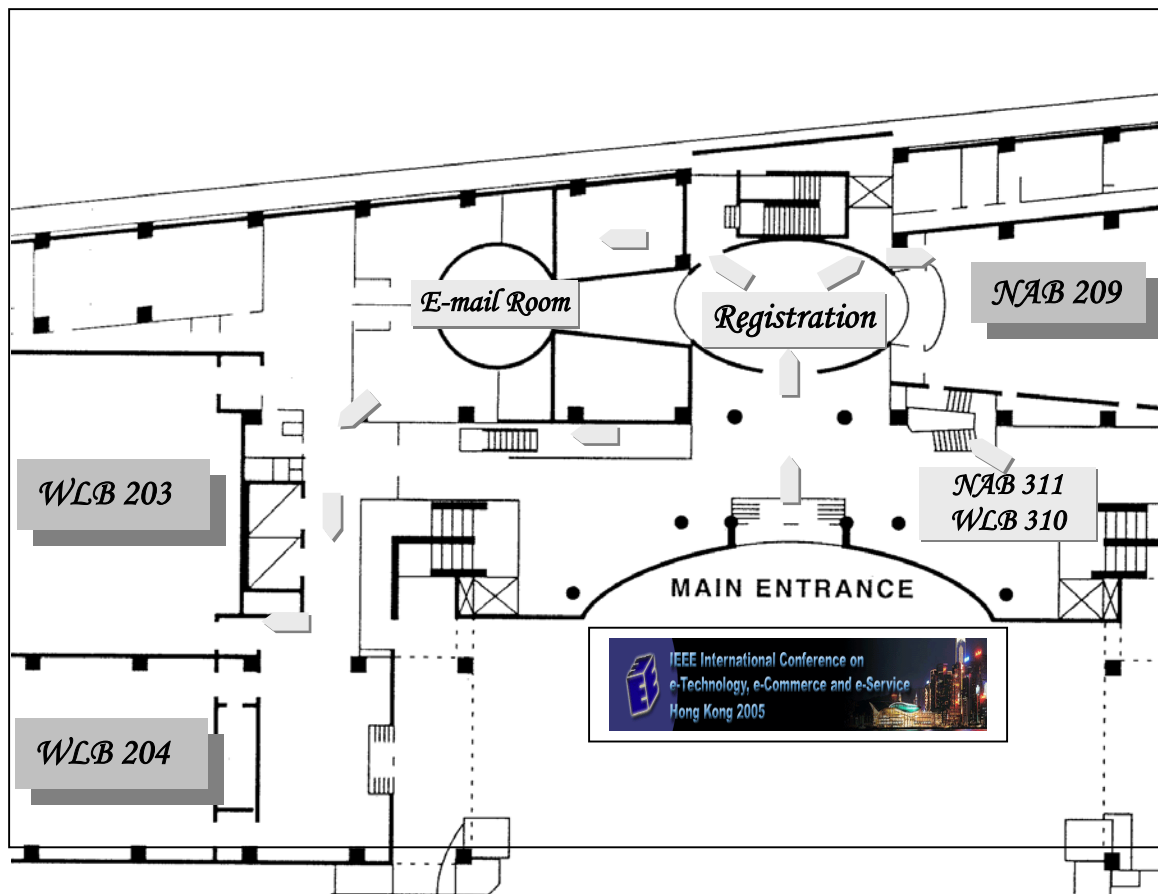
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Floor Plan of the Conference Venue



Campus Map of Hong Kong Baptist University

Keynote Speeches



Title: Business as a Service

Dr. David Cohn

March 30, 2005

Director, Business Informatics, IBM Research

Abstract

Viewing software as a service, rather than as a product, has dramatically changed the value proposition for an entire industry. The same thing will happen with business. Rather than the complex relationships needed today, commercial entities will collaborate through established provider/consumer structures. However, unlike software services where the basic structures and standards have been established, business service relationships are still custom built. This talk proposes a view of the enterprise that can provide the basis for formalizing businesses services. It applies the kind of structured techniques familiar to computer scientists to the unstructured problems of businesses. Not only does this approach suggest a formal basis for business services, it offers insight into improving business operations, bridges the business/IT gap and, surprisingly, makes business more understandable to business people. Early applications of this method demonstrate that there are compelling reasons for computer scientists to continue to "move up the stack".

Biography

Dr. David Cohn is Director, Business Informatics at IBM's T. J. Watson Research Center. He supervises a research team focused on modeling, transforming and integrating information and business structures for on demand solutions. He directs IBM's worldwide research strategy in support of on demand e-Business including:

Model-driven Business Transformation - A new artifact-based modeling approach for improved efficiency and effectiveness in process transformation

Performance Monitoring - Methods and tools to improve an enterprise's ability to sense and respond to important trends and events

Solutions Frameworks - Structures for solutions to complex client problems in industries such as automotive, electronics and retail.

Information Integration - Analysis of information with emphasis on multimedia research.

Prior to his current position, Dr. Cohn was Director of IBM's Austin Research Laboratory which focuses on exploratory VLSI design, electronic CAD tools and high-productivity system design and is home of IBM's Low-Power Initiative. He also served as Director, Strategic Projects at Armonk assisting the Chairman and corporate executives in formulating and assessing IBM's worldwide business strategy. Before joining IBM, he was Professor of Computer Science & Engineering and Professor of Electrical Engineering at Notre Dame.



Title: Semantic Web Services: A New Revolution for e-Commerce?

Prof. Katia Sycara

March 31, 2005

School of Computer Science, Carnegie Mellon University

Abstract

The Web, as we know it, is a collection of human readable pages that are virtually unintelligible to computer programs. While the Web emerged as a World Wide repository of digitized information, by and large, the very same information is not available for automatic computation. In recent years two parallel efforts emerged that have the potential of bringing the Web to its true potential: the first effort is the Semantic Web which provides the tools for the explicit markup of the content of Web pages; the second effort is the development of Web Services which results in a Web where programs act as independent agents to become the producers and consumers of information and enable automation of business transactions.

In this talk, I will focus on research that attempts to bridge the gap between the Web as we know it, the Semantic Web and Web services. I propose the vision of Web services as autonomous goal-directed agents which select other agents to interact with, and flexibly negotiate their interaction model, acting at times in client server mode, or at other times in peer to peer mode. The resulting Web services, that I call Autonomous Semantic Web services, utilize ontologies and semantically annotated Web pages to automate the fulfillment of tasks and transactions with other Web agents. In particular, Autonomous Semantic Web services use the Semantic Web to support capability based discovery and interoperation at run time. Such functionality, provided in a reliable and low cost way, has the potential to revolutionize e-commerce.

A first step towards this vision is the development of formal languages and inference mechanisms for representing and reasoning with core concepts of Web services. OWL-S (based on the W3C standard Ontology Web Language (OWL)) is the first attempt to define such a language. I will give a brief overview of OWL-S and its relations with the Semantic Web and Web services. In addition, I will provide concrete examples of computational models of how OWL-S can be viewed as the first step in bridging the gap between the Semantic Web and current proposed industry standards for Web services. I will provide concrete examples of OWL-S in action, and present Semantic Web Services tools that my research group has developed.

Biography

Professor Katia Sycara is a Research Professor in the School of Computer Science at Carnegie Mellon University. She is also the Director of the Laboratory for Semantic Web and Agents Technology. She holds a B.S. in Applied Mathematics from Brown University, M.S. in Electrical Engineering from the University of Wisconsin and PhD in Computer Science from Georgia Institute of Technology. She has given numerous invited talks, and has authored or co-authored more than 200 technical papers dealing with Multiagent Systems, Software Agents, Agent Teams, Web Services, the Semantic Web, Human-Agent Interaction, Negotiation, Case-Based Reasoning and the application of these techniques to e-commerce, crisis action planning, scheduling, manufacturing and

financial planning. In addition, Prof. Sycara is one of the contributors to the development of DAML-S/OWL-S, the DAML language for services, as well as matchmaking and brokering software for agent discovery, service integration and semantic interoperation. From 2001-2003 she served as Invited Expert of the W3C (the World Wide Web Consortium) Working Group on Web Services Architecture. She is a member of the Scientific Advisory Board of France Telecom, 2003-2006.

Professor Sycara is a Fellow of the American Association for Artificial Intelligence and the recipient of the 2002 ACM/SIGART Agents Research Award. She has served as the Program Chair of the Second International Semantic Web Conference (ISWC 2003), as General Chair of the Second International Conference on Autonomous Agents (Agents 98), as the Chair of the Steering Committee of the Agents Conference (1999-2001), as the Scholarship chair of AAAI (1993-1999) and as a member of the AAAI Executive Council (1996-99). She is a founding member and member of the Board of Directors of the International Foundation of Multiagent Systems (IFMAS). She is a founding member of the Semantic Web Science Association, and the US co-chair of the Semantic Web Services Initiative. She is a founding Editor-in-Chief of the journal "Autonomous Agents and Multiagent Systems"; an Editor-in-Chief of the Springer Series on Agents; on the Editorial Board of the Kluwer book series on "Multiagent Systems, Artificial Societies and Simulated Organizations"; the Area Editor for AI and Management Science of the journal "Group Decision and Negotiation". She also serves on the editorial board of the journal "Concurrent Engineering: Research and Applications". She has served on the editorial board of the "ETAI journal on the Semantic Web" (1998-2001), on the Editorial Board of "IEEE Intelligent Systems and their Applications" (1992-1996), and "AI in Engineering" (1990-1996). She is a member of AAAI, the ACM, and Senior Member of IEEE.



Title: Minimalistic Internetworking – Meeting the Needs of Tomorrow

Dr. Li Gong

April 1, 2005

General Manager, Sun Microsystems China Engineering and Research Institute

Abstract

The internet conceptually includes everything with a digital heartbeat, and increasingly anything that matters in our lives does have a digital heartbeat, from office equipments, to everyday electronics, to medical devices, to RFID tags, and much beyond. As millions of such devices of a huge variety pour into the world, it is desirable to keep them interconnected, because connectedness is the primary value of the Internet. However, two major factors work against this already daunting challenge -- our technology legacy that pushes things into more complex forms and the business tendency to fragment the Internet. This talk borrows ideas of how the human world stays connected, draws from past experience in designing P2P networks, and outlines a small number of basic components that would be sufficient to form a minimalistic network that can connect everything yet maintain its simplicity in the face of continued technology innovation.

Biography

Li Gong is the founding General Manager of Sun China Engineering and Research Institute in Beijing. Previously at Sun, he was a Distinguished Engineer and engineering head of JXTA, Java Embedded Server, and Java security and networking. Out of these work he received six US patents and wrote three books. Prior to Sun, he was with Stanford Research Institute (SRI) International. He did extensive research in distributed systems, and served as Program and General Chair for IEEE S&P, ACM CCS, and IEEE CSFW. He received BS and MS degrees from Tsinghua University, Beijing, and a PhD from the University of Cambridge, England, all in Computer Science. He is Associate Editor-in-Chief of IEEE Internet Computing, and Guest Chair Professor at Tsinghua University and Beijing University of Post and Telecommunications. He was named one of the 2003 China New Economy People by China Internet Weekly and Sina, and received the China Open Source Movement Leadership Award in 2003 given by CCID and the China Software Industry Association.

Program at a Glance

March 29, 2005 (Tue)				
EEE 2005 Workshops, Tutorials and Web Service Matching Challenge				
Time	Sessions			
8:30	Registration			
Venue	WLB 204	WLB 203	NAB 311	WLB 310
9:00 - 10:45		Workshop 2 Business Services Networks (BSN 2005)	Tutorial 1 Semantic Web: Key Ideas, Techniques, Applications	Tutorial 2 UMM - Consistent B2B Analysis & Design on Top of ebXML and Web Services
10:45 - 11:00	Coffee Break			
11:00 - 12:30	Workshop 1 Mobility, Agents, and Mobile Services	Workshop 2 Business Services Networks (BSN 2005)	Tutorial 1 Semantic Web: Key Ideas, Techniques, Applications	Tutorial 2 UMM - Consistent B2B Analysis & Design on Top of ebXML and Web Services
12:30 - 13:30	Lunch			
13:30 - 15:10	Workshop 1 Mobility, Agents, and Mobile Services	Workshop 2 Business Services Networks (BSN 2005)	Tutorial 3 Security Management of E-Business Systems	EEE-05 Web Service Matching Challenge
15:10 - 15:25	Coffee Break			
15:25 - 17:00	Workshop 1 Mobility, Agents, and Mobile Services	Workshop 2 Business Services Networks (BSN 2005)	Tutorial 3 Security Management of E-Business Systems	EEE-05 Web Service Matching Challenge

March 30, 2005 (Wed)			
Time	Sessions		
8:30	Registration		
9:10	Opening		
9:30 – 10:30	Keynote by Dr. David Cohn Director, Business Informatics, IBM Research (Chaired by Prof. Kwei-Jay Lin)		WLB 203
10:30 - 10:45	Coffee Break		
Venue	WLB 203	WLB 204	NAB 209
10:45 - 12:30	A1 Web Services	B1 Agent	C1 Business Process
12:30 – 13:30	Lunch		
13:30 – 15:30	A2 Security	B2 Web Intelligence	C2 Panel Discussion on Issues in Adopting RFID in Supply Chain
15:30 – 15:45	Coffee Break		
15:45 – 18:00	A3 Web Services	B3 Web Intelligence and Business Intelligence	C3 Customer Relationship Management
18:30	Reception at Harmony Restaurant (Staff Dining Room at HKBU)		

March 31, 2005 (Thu)			
Time	Sessions		
8:30	Registration		
9:00 – 10:00	Keynote by Prof. Katia Sycara (Chaired by Prof. Soe-Tsy Yuan) <i>Semantic Web Services: A New Revolution for e-Commerce?</i>		
10:00 – 10:15	Coffee Break		
Venue	WLB 203	WLB 204	NAB 209
10:15 – 12:30	A4 Security	B4 Supply Chain Management	C4 Data Mining
12:30 – 13:30	Lunch		
13:30 – 15:30	A5 Middleware	B5 Web Intelligence and Agent	C5 Panel Discussion on Data Mining and Web Intelligence in Finance: Separating Facts from Fiction
15:30 – 15:45	Coffee Break		
15:45 – 18:00	A6 Web Services	B6 XML	C6 e-Applications
19:00	Banquet at Harbour Plaza Metropolis + Best Paper Award Presentation + Short City Tour (Avenue of Stars)		

April 1, 2005 (Fri)			
Time	Sessions		
8:30	Registration		
9:00 – 10:00	Keynote by Dr. Li Gong (Chaired by Prof. Jiming Liu) <i>Minimalistic Internetworking -- Meeting the Needs of Tomorrow</i>		
10:00 – 10:15	Coffee Break		
Venue	WLB 203	WLB 204	NAB 209
10:15 – 12:30	A7 Security	B7 e-Learning	C7 e-Service and e-Government
12:30 – 13:30	Lunch		
13:30 – 15:30	A8 Middleware and Peer-to-Peer	B8 Pervasive Computing and e-Applications	C8 e-Business
15:30 – 15:45	Coffee Break		
15:45 – 18:00		B9 Recommender Systems	C9 e-Applications

EEE-05 Challenge Program

March 29, 2005 (Tue)	
Time	WLB 310
14:00 - 14:30	Title: <i>An Efficient Web Services Management Software For EEE-05 Match</i> Sheng Huang, Xiaoling Wang, and Aoying Zhou Department of Computer Science & Engineering, FudanUniversity, Shanghai, China
14:30 - 15:00	Title: <i>BF*: Web Services Discovery and Composition as Graph Search Problem</i> Dongwon Lee, Seog-Chan Oh, Byung-Won On, and Eric J. Larson Penn State IST
15:00 - 15:30	Title: <i>Service Composition in a Secure Agent Based Architecture</i> Supratik Mukhopadhyay, Ramesh Bharadwaj, Hasan Davulcu, Dazhi Huang, Nilay Padh, Yisheng Yao, and Stephen Yau Naval Research Lab and West VirginiaUniversity
15:30 - 16:00	Title: <i>Web service Discovery and Composition using the Web Service Integration Gateway</i> Paul Buhler, Dominic Greenwood, and Alois Reitbauer College of Charleston
16:00 - 16:30	Title: <i>Web Service Discovery and Composition with MOVE</i> Albert Rainer, Jürgen Dorn, and Peter Hrastrnik ec3 - electronic commerce competence center
16:30 - 17:00	Title: <i>A Method for Web Services Discovery and Composition</i> Yushi Cheng and V.Ramasamy Industrial Informatics Group, Singapore Institute of Manufacturing Technology

Main Conference Program

March 30, 2005 (Wed)			
Time	Sessions		
8:30	Registration		
9:10	Welcome Address: Prof. Herbert Tsang (Academic Vice President, Hong Kong Baptist University) WLB203 Opening Speech: Mr. Howard C. Dickson (Government CIO, The Government of HKSAR) Program Highlights: Dr. William K. Cheung (EEE-05 Program Co-Chair)		
9:30 - 10:30	Keynote Talk (Chair: Prof. Kwei-Jay Lin) WLB 203 Dr. David Cohn Director, Business Informatics, IBM Research		
10:30 -10:45	Coffee Break		
Venue	WLB 203	WLB 204	NAB 209
10:45 - 12:30	Session A1 (Chair: Zakaria Maamar) Web Services	Session B1 (Chair: Ben Sim) Agent	Session C1 (Chair: Carolyn McGregor) Business Process
	<u>Regular:</u> ✧ <i>Process-Annotated Service Discovery Facilitated by an n-Gram-Based Index</i> B. Mahleko, A. Wombacher, and P. Fankhauser ✧ <i>Solving Qos-driven Web Service Dynamic Composition as Fuzzy Constraint Satisfaction</i> M. Lin, J. Xie, H. Guo, and H. Wang ✧ <i>Reliable Web Services Composition Using a Transactional Approach</i> S. Bhiri, C. Godart, and O. Perrin ✧ <i>A Broker-Based Framework for Qos-Aware Web Service Composition</i> T. Yu and K.-J. Lin	<u>Regular:</u> ✧ <i>Continuous Call Double Auctions with Indivisibility Constraints</i> A. Dani, V. Gulati, and A. Pujari ✧ <i>An Adaptive Attitude Bidding Strategy for Agents in Continuous Double Auctions</i> H. Ma and H.-f. Leung ✧ <i>DR-NEGOTIATE: A System for Automated Agent Negotiation with Defeasible Logic-Based Strategies</i> T. Skylogiannis, G. Antoniou, N. Bassiliades, and G. Governatori <u>Short:</u> ✧ <i>Automatic Negotiation with Mediated Agents in E-commerce Marketplace</i> M. -Y. Tsai, L.-C. Fu, and T.-C. Chou ✧ <i>Semantic Mapping with Multi-Agent Systems</i>	<u>Regular:</u> ✧ <i>Consistency between Executable and Abstract Processes</i> A. Martens ✧ <i>Achieving Survivability in Business Process Execution Language for Web Services (BPEL) with Exception-Flows</i> C. Fung, P. Hung, and D. Folger <u>Short:</u> ✧ <i>From Multi-Context Business Collaboration Models to Context-specific ebXML BPSS</i> C. Huemer and B. Hofreiter ✧ <i>Codifying Business and Process Models for Service-Based eBusiness Propositions</i> G. Winch and P. Joyce ✧ <i>Business Processes and Workflow Coordination of Web Services</i>

		L. Li, B. Wu, and Y. Yang	J. Estublier and S. Sanlaville ✧ <i>Process-oriented Business Performance Management with Petri Nets</i> K. Lenz, M. Mevius, and A. Oberweis
12:30 - 13:30	Lunch		
13:30 - 15:30	Session A2 (Chair: Thomas Kwok) Security	Session B2 (Chair: Yiu-Ming Cheung) Web Intelligence	Session C2 (Chair: Timon Du) Panel Discussion
	<p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>DSA-Based Verifiable and Recoverable Encryption of Signatures and its Application in Certified E-Goods Delivery</i> A. Nenadic, N. Zhang, Q. Shi, and C. Goble ✧ <i>Protect E-commerce against DDoS Attacks with Improved D-WARD Detection System</i> J. Kang, Z. Zhang, and J.-b. Ju ✧ <i>A Secure Anonymous Authorisation Architecture for E-commerce</i> W.-k Au, K.-K. Choo, and M. Looi <p>Short:</p> <ul style="list-style-type: none"> ✧ <i>Evaluation Methodology for the Security of e-Finance Systems</i> Y. Wang and P. Ray ✧ <i>On Splitting Public Keys for the Public Key Infrastructure</i> S. Cristiano and F. Liu ✧ <i>Adaptive Bucket Formation in Encrypted Database</i> Y. Tang and L. Zhang 	<p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>Navigational Structure Mining for Usability Analysis</i> C.-k. Chui and C.-h. Li ✧ <i>Matrix Model for Web Page Community</i> J. Hou and A. Sajjanhar ✧ <i>An Approach to Support Web Service Classification and Annotation</i> M. Bruno, G. Canfora, M. Di Penta, and R. Scognamiglio <p>Short:</p> <ul style="list-style-type: none"> ✧ <i>Personalized Web Search with Self-Organizing Map</i> D. Chen, J. Patra, and F. Peng ✧ <i>Personalization Techniques for Web Search Results Categorization</i> J. Garofalakis, T. Matsoukas, Y. Panagis, E. Sakkopoulos, and A. Tsakalidis ✧ <i>Ontology-Based Information Retrieval Model for the Semantic Web</i> J.-f. Song, W.-m. Zhang, W.-d. Xiao, and Z.-n. Xu 	<p>Issues in Adopting RFID in Supply Chain</p> <p>Panelists:</p> <p>Prof. Frank Tong, Director of the Wireless and RFID Laboratory, The University of Hong Kong</p> <p>Prof. Chu Sung Chi, The Chinese University of Hong Kong</p> <p>Mr. K K Suen, Chief Architect, EPCglobal and Hong Kong Article Numbering Association</p> <p>Prof. Kwei-Jay Lin, University of California, Irvine</p> <p>Jen-Yao Chung, Chief Technology Officer for IBM Global Electronics Industry</p>
15:30 - 15:45	Coffee Break		

15:45 - 18:00	Session A3 (Chair: Christian Huemer) Web Services	Session B3 (Chair: Casey Fung) Web and Business Intelligence	Session C3 (Chair: Yain-Whar Si) Customer Relationship Management
	<p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>SLA Representation, Management and Enforcement</i> A. Paschke and M. Bichler ✧ <i>Overview on Decentralized Establishment of Consistent Multi-lateral Collaborations Based on Asynchronous Communication</i> A. Wombacher, P. Fankhauser, and K. Aberer ✧ <i>On Self-Coordinating Web Services Using Similarity and Neural Networks</i> Z. Maamar, I. Younas, D. Benslimance, I. Younas, D. Benslimance, C. Ghedira, and H. Yahyaoui <p>Short:</p> <ul style="list-style-type: none"> ✧ <i>SophiNode: An Efficient Service Discovery System of Decentralized E-Commerce</i> D. Zhang, F. Gao, and Z. Yang ✧ <i>QoS Aggregation in Web Service Compositions</i> M. Jaeger, G. Rojec-Goldmann, and G. Muhl ✧ <i>An Agent-Based Model For Web Services Transaction Processing</i> X. Wang, G. Zhao, X. Zhang, and B. Jin ✧ <i>A Web Registry for Publishing and Discovering Mathematical Services</i> R. Baraka, O. Caprotti, and W. Schreiner 	<p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>Developing e-Business Portals with Dynamic Multi-level Workflows on the Multi-layer Grids</i> J. Hu and N. Zhong ✧ <i>Background Knowledge Driven Ontology Discovery</i> S. Chen, D. Alahakoon, and M. Indrawan ✧ <i>Distributed Reasoning Based on Problem Solver Markup Language (PSML)— A Demonstration through Extended OWL</i> Y. Su, L. Zheng, N. Zhong, C. Liu, and J. Liu <p>Short:</p> <ul style="list-style-type: none"> ✧ <i>Semantic-Based Context-Role Model for Web Information Sharing</i> Y. Mao, Z. Wu, H. Chen, and Z. Xu ✧ <i>Real-Time Business Intelligence in Multi-Agent Adaptive Supply Networks</i> G. Finnie and J. Barker ✧ <i>A Heuristic Algorithm for Agent-Based Grid Resource Discovery</i> S. Ding, J. Yuan, J. Ju, and L. Hu 	<p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>Business Process Design and Implementation for Customer Segmentation e-Services</i> P. Sampaio and Y. He ✧ <i>Enhancing e-CRM in the Insurance Industry by Mobile e-Services</i> F. Bodendorf and A. Schobert ✧ <i>An Empirical Study on the e-CRM Performance Influence Model for Service Sectors in Taiwan</i> T.-M. Chang, L.-L. Liao, and W.-F. Hsiao <p>Short:</p> <ul style="list-style-type: none"> ✧ <i>A Systematic Approach to the Development of E-Commerce Sites for Mass Customization</i> A. Lombardoni, M. Norrie, N. Weibel, A. Vogelsang, and M. Althaus ✧ <i>Service Demand Analysis Using Customer-Choice Behavior Modeling, with Consideration of Awareness And Perception</i> T. Kurosawa, A. Inoue, and K. Nishimatsu ✧ <i>Some Issues for the Modelling of Interactive E-Services from the Customer Multi-Channel Interaction Perspectives</i> V. Chevrin, A. Derycke, and J. Rouillard
19:00	Reception at Harmony Restaurant (Staff Dining Room at HKBU)		

March 31, 2005 (Thu)			
Time	Sessions		
8:30	Registration		
9:00 - 10:00	Keynote Talk (Chair: Prof. Soe-Tsy Yuan) Prof. Katia Sycara Semantic Web Services: A New Revolution for e-Commerce?		WLB 203
10:00 - 10:15	Coffee Break		
Venue	WLB 203	WLB 204	NAB 209
10:15 - 12:30	Session A4 (Chair: Pradeep Ray) Security	Session B4 (Chair: Fu-ren Lin) Supply Chain Management	Session C4 (Chair: Joshua Huang) Data Mining
	<p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>A Reputation and Trust Management Broker Framework for Web Applications</i> K.-J. Lin, H. Lu, T. Yu, and C.-e. Tai ✧ <i>A Distributed Reputation Management Scheme for Mobile Agent-Based E-commerce Applications</i> O. Bamasak and N. Zhang ✧ <i>A Secure Electronic Contract Management and Process System Automated with Predefined Tasks</i> T. Kwok and T. Nguyen <p>Short:</p> <ul style="list-style-type: none"> ✧ <i>Authenticating Mobile Agent Platforms Using Signature Chaining without Trusted Third Parties</i> A. Saxena and B. Soh ✧ <i>A Trust Agent for E-Commerce: Looking for Clues</i> A. Hussin, K. Keeling, L. Macaulay, and P. McGoldrick ✧ <i>A Distributed Trust Model for e-Commerce Applications</i> 	<p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>The Nature of Supply Chain Sophistication: An Exploratory Study of the Transport Industry in New Zealand</i> C. Day, P. Yoong, and S. Huff ✧ <i>Economic Production Quantity for Supply Chain System with Volume Flexibility</i> D.-z. Feng, M. Yamashiro, and L.-b. Zhang ✧ <i>Supply Chain Management: A Multi-Agent System for Collaborative Production Planning</i> W. Dangelmaier, J. Heidenreich, and U. Pape ✧ <i>Specification of Composite Trading Activities in Supply Chain Management</i> Y.-W. Si, D. Edmond, A. ter Hofstede, M. Dumas, and C. Chong <p>Short:</p> <ul style="list-style-type: none"> ✧ <i>A Strategic Quick Response Approach for Dynamic Supply Chain Management of Perishable Goods</i> 	<p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>Intelligent Techniques for Global E-Business Web Portal Development</i> R. Chau and C.-H. Yeh ✧ <i>Correlating Alerts with a Data Mining Based Approach</i> G. Xiang, X. Dong, and G. Yu ✧ <i>Detecting Buzz from Time-Sequenced Document Streams</i> J. Yi ✧ <i>Learning the Kernel Matrix for XML Document Clustering</i> J. Yang, W. Cheung, and X. Chen <p>Short:</p> <ul style="list-style-type: none"> ✧ <i>Trading Decision Maker: Stock Trading Decision by Price Series Smoothing and Tendency Transition Inference</i> H.-T. Peng, H.-M. Lee, and J.-M. Ho ✧ <i>Loan Risk Analyzer Based on Fuzzy Logic</i> K. Dahal, Z. Hussain, and M. Hossain

	H. Lei and G. Shoja	C.-W. Lin, O. Hung, and C. Chen ✧ <i>Web Service Intelligent Agent Structure for Supply Chain Management (SCM)</i> U. Hassan and B. Soh	
12:30 - 13:30	Lunch		
13:30 - 15:30	Session A5 (Chair: Tharam Dillon) Middleware	Session B5 (Chair: Kwok-Ching Tsui) Web Intelligence and Agent	Session C5 (Chair: Irwin King) Panel Discussion
	<p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>Study on Construction and Integration of Military Domain Ontology, Situation Ontology and Military Rule Ontology for Network Centric Warfare</i> J.-f. Song, W.-m. Zhang, W.-d. Xiao, and Z.-n. Xu ✧ <i>Web Services Workflow for Power System Security Assessment</i> Q. Morante, N. Ranaldo, and E. Zimeo <p>Short:</p> <ul style="list-style-type: none"> ✧ <i>Reasoning over Ontologies of On Demand Service</i> Y. Zhou, Q. Zhao, and M. Perry ✧ <i>A Design Methodology for User Access Control (UAC) Middleware</i> R. Steele, W. Gardner, R. Rajugan, and T. Dillon ✧ <i>A Request Dispatching Policy for Web Server Cluster</i> Y. Li, Q. Zhu, and Y. Cao 	<p>Short:</p> <ul style="list-style-type: none"> ✧ <i>Intelligent Kanban: Evaluation of a Supply Chain MAS Application Using Benchmarking</i> J. Zhang, P. Wallis, and R. Johnston ✧ <i>Multi-Agent-Based Architecture and Mechanism for Coordination and Execution in Agile Supply Chain Operational Management</i> L. Ta, Y. Chai, and Y. Liu ✧ <i>A Pattern Language for Decentralized Coordination and Negotiation Protocols</i> A. Paschke, C. Kiss, and S. Al-Hunaty ✧ <i>From Market-driven e-Negotiation to Market-driven G-Negotiation</i> K. Sim ✧ <i>DR-BROKERING — A Defeasible Logic-Based System for Semantic Brokering</i> T. Skylogiannis, G. Autonou, A. Bikakis, and N. Bassiliades ✧ <i>Composition of Negotiation Protocols for E-Commerce Applications</i> N. Diakov, Z. Zlatev, and S. Pokraev 	<p>Data Mining and Web Intelligence in Finance: Separating Facts from Fiction</p> <p>Panelists:</p> <p>Prof. Jiming Liu Hong Kong Baptist University</p> <p>Prof. Jerome Yang The Chinese University of Hong Kong</p> <p>Prof. Indranil Bose The University of Hong Kong</p> <p>Dr. Joshua Huang E-Business Technology Institute, The University of Hong Kong</p>
15:30 - 15:45	Coffee Break		

15:45 - 18:00	<p>Session A6 (Chair: Axel Martens) Web Services</p> <p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>Hybrid Composition of Web Services and Grid Services</i> K.-M. Chao, R. Anane, and Y. Li ✧ <i>On Tracking Personalized Web Services Using Views</i> Z. Maamar, D. Benslimane, C. Ghedira, and M. Mrissa ✧ <i>A New Approach for Context Aware SOA</i> S. Yang, B. Lan, and J.-Y. Chung ✧ <i>On Comprehensive Contractual Descriptions of Web Services</i> V. Tosic and B. Pagurek <p>Short:</p> <ul style="list-style-type: none"> ✧ <i>A Petri-Net Based Validator in Reliability of a Composite Service</i> Y.-L. Chi, M.-H. Tsai, and C.-W. Lee ✧ <i>Web Service-Oriented Enterprise Architecture for Mobility Support in Prescription Management</i> G. Pour, A. Rao, C. Nguyen, and R. Mangoba 	<p>Session B6 (Chair: Jianwu Yang) XML</p> <p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>Efficient Distributed XML Data Management for Mobile Commerce</i> V. Chhieng and R. Wong ✧ <i>Exceptional Handling for XML Query Execution Plans in a Web Service Environment</i> P. Hung and D. Chiu ✧ <i>A Differential-analysis Approach for Improving SOAP Processing Performance</i> Y. Takeuchi, T. Okamoto, K. Yokoyama, and S. Matsuda ✧ <i>E-Voting: A Scalable Approach Using XML and Hardware Security Modules</i> T. Roessler, H. Leitold, and R. Posch <p>Short:</p> <ul style="list-style-type: none"> ✧ <i>Compression of XML Physiological Data Streams to Support Neonatal Intensive Care Unit Web Services</i> C. McGregor, M. Purdy, and B. Kneale ✧ <i>Bridging Knowledge Bases' Heterogeneity Using XML/XSLT Approach</i> J. Jovanovic and D. Gasevic 	<p>Session C6 (Chair: Indranil Bose) e-Applications</p> <p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>A Web Services Based Framework for the Transmission of Physiological Data for Local and Remote Neonatal Intensive Care</i> C. McGregor, J. Heath, and M. Wei ✧ <i>Resilient Dissemination of Events in a Large-Scale Event Notification Service System</i> C. Lwin, H. Mohanty, R. Ghosh, and G. Chakraborty ✧ <i>Web System Trace Model Using a Web Application Architecture Framework</i> X. Kong, L. Liu, and D. Lowe <p>Short:</p> <ul style="list-style-type: none"> ✧ <i>Performance-Sensitive Service Provision in Active Digital Libraries</i> C. Georgousopoulos and O. Rana ✧ <i>Straight through Processing for Corporate Foreign Exchange Trading Lessons Learned from a Web Service Based Implementation</i> V. Kiet and R. Wojciechowski ✧ <i>Event-Based Ontology Design for Retrieving Digital Archives on Human Religious Self-help Consulting</i> H.-F. Lin, J.-M. Liang
19:00	<p align="center">Banquet at Harbour Plaza Metropolis + Best Paper Award Presentation + Short City Tour (Avenue of Stars)</p>		

April 1, 2005 (Fri)			
Time	Sessions		
8:30	Registration		
9:00 - 10:00	Keynote Talk (Chair: Prof. Jiming Liu) Dr. Li Gong Minimalistic Internetworking -- Meeting the Needs of Tomorrow		
10:00 - 10:15	Coffee Break		
Venue	WLB 203	WLB 204	NAB 209
10:15 - 12:30	Session A7 (Chair: Patrick Hung) Security	Session B7 (Chair: Andreas Wombacher) e-Learning	Session C7 (Chair: Dietmar Jannach) e-Service and e-Government
	<u>Regular:</u> ✧ <i>Mobile Agents for Secure Electronic Commerce Transactions with Privacy Protection of the Customers</i> C. Wang and H.-f. Leung ✧ <i>Maturing e-Privacy with P3P and Context Agents</i> D. Jutla and Y. Zhang ✧ <i>Trustworthy Browsing— A Secure Web Accessing Model</i> J. Yau, L. Hui, B. Cheung, S. Yiu, Y. Woo, K. Lau, and E. Li <u>Short:</u> ✧ <i>Certified e-mail Protocol with Verifiable Third Party</i> M. Puigserver, J. Gomila, and L. Rotger ✧ <i>An Electronic Payment System Architecture for Composite Payment Transactions</i> A. Dani, P. Krishna, and V. Subramanian ✧ <i>The Practical Detailed Requirements of Accountability and Its Application in</i>	<u>Regular:</u> ✧ <i>Generic E-Learning Data Structure and Web Teaching</i> C. Lim, M. Yu, and J. Jin ✧ <i>Alert Driven Communications Management for Distance Learning</i> D. Chiu and S. Choi ✧ <i>A Critiquing System to Support English Composition through the Use of Latent Semantic Analysis</i> K. Wong, A. Mørch, W. Cheung, M. Lam, and J. Tang ✧ <i>From Education to e-Learning: A Union Catalog Service of Learning Resources</i> P.-X. Kou, J.-J. Yan, J.-M. Ho <u>Short:</u> ✧ <i>Collaborative T-Learning: Bringing Greater Levels of Interactivity into the Home</i> A. Eguia, M. Nores, Y. Fernandez, and J. Arias	<u>Regular:</u> ✧ <i>Who Counts Your Votes?</i> H. Kaminski, L. Kari, and M. Perry ✧ <i>Personalized User Preference Elicitation for e-Services</i> D. Jannach and G. Kreutler ✧ <i>The Reality of e-Service in the Public Sector: A Local Government Perspective</i> M. Asgarkhani <u>Short:</u> ✧ <i>eGovSM Metadata Model: Towards a Flexible, Interoperable and Scalable eGovernment Service Marketplace</i> E. Mugellini, O. Khaled, M. Pettenati, and P. Kuonen ✧ <i>A Cross Border Collaboration Environment, As a Means for Offering Online public Services and for Evaluating the Performance of Public Executives</i> L. Anthopoulos and I. Tsoukalas ✧ <i>Service Quality in Internet Banking: A User-Based Core Framework</i>

	<i>the Electronic Payment Protocols</i> B. Meng, H. Zhang, and Q. Xiong	✧ <i>A Shareable e-Learning Platform Using Data Grid Technology</i> C.-T. Yang and H.-C. Ho	Z. Liao and M. Cheung
12:30 - 13:30	Lunch		
13:30 - 15:30	Session A8 (Chair: Ricky Hou) Middleware and Peer-to-Peer	Session B8 (Chair: Dickson Chiu) Pervasive Computing and e-Applications	Session C8 (Chair: Benjamin Yen) e-Business
	<p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>wsBus: QoS-aware Middleware for Reliable Web Services Interactions</i> A. Erradi and P. Maheshwari ✧ <i>The Design and Evaluation of P2P Transactive Memory System</i> F.-R. Lin, K.-L. Tsai and P.-C. Sun <p>Short:</p> <ul style="list-style-type: none"> ✧ <i>A Service-Oriented Architecture for Tele-Immersion</i> Z.-Q. Cheng, S.-Y. Jin, G. Dang, T. Yang, and T. Wu ✧ <i>Fast Teaming on P2P Networks Based on Expertise and Relation</i> F.-r. Lin and C.-h. Chiang ✧ <i>Two-phase Peer Evaluation in P2P E-commerce Environments</i> Y. Wang and V. Varadharajan 	<p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>AVATAR: A Multi-Agent TV Recommender System Using MHP Applications</i> Y. Blanco-Fernandez, J. Pazos-Arias, A. Gil-Solla, M. Ramos-Cabrer, M. Lopez-Nores, and B. Barragans-Martinez ✧ <i>Applying e-Transportation to Traffic Evacuation Management under Human-Caused Threats</i> G. Hamza-Lup, K. Hua, and R. Peng ✧ <i>Information Stream Oriented Content Adaptation for Pervasive Computing</i> H. Wang, X. Zhou, Y. Zhang, and T. Zhang ✧ <i>Flexible Application Rights Management in a Pervasive Environment</i> I. Dusparic, D. Dahlem, and J. Dowling <p>Short:</p> <ul style="list-style-type: none"> <i>A Secure Mobile Track and Trace System for Anti-Counterfeiting</i> F. Claret-Tournier, P. Lei, C. Chatwin, and R. Young 	<p>Regular:</p> <ul style="list-style-type: none"> ✧ <i>Predicting the Survival or Failure of Click-and-Mortar Corporations</i> I. Bose and R. Pal ✧ <i>Integrated Vulnerability Management System for Enterprise Networks</i> W. Wu, F. Yip, and P. Ray ✧ <i>ITIL as Common-Practice Reference Model for IT Service Management: Formal Assessment and Implications for Practice</i> A. Hochstein, R. Zarnekow, and W. Brenner <p>Short:</p> <ul style="list-style-type: none"> ✧ <i>A New Framework for B2E Portal Development</i> D. Tojib, L. Sugianto, and M. Rahim
15:30 - 15:45	Coffee Break		

15:45 - 18:00		<p>Session B9 (Chair: Xiaofeng Zhang) <i>Recommender Systems</i></p> <p><u>Regular:</u> ✧ <i>Automatic Content-Based Recommendation in e-Commerce</i> J. Chen, J. Yin, and J. HUANG ✧ <i>Semantic Feedback for Hybrid Recommendations in Recommender Systems</i> M. Garden and G. Dudek ✧ <i>Collaborative Filtering Guided Exploration in Multi Agent Filtering Framework</i> S. Albayrak and D. Milosevic ✧ <i>Feature Selection Methods for Conversational Recommender Systems</i> N. Mirzadeh, F. Ricci, and M. Bansal</p> <p><u>Short:</u> ✧ <i>A Dynamic Framework for Maintaining Customer Profiles in E-Commerce Recommender Systems</i> C. Haruechaiyasak, C. Tipnoe, S. Kongyoung, C. Damrongrat, and N. Angkawattanawit</p>	<p>Session C9 (Chair: Tony Chan) <i>e-Applications</i></p> <p><u>Regular:</u> ✧ <i>Towards Effective Web Site Designs: A Framework for Modeling, Design Evaluation and Enhancement</i> B. Yen, P. Hu, and M. Wang ✧ <i>Towards Access Control for Visual Web Model Management</i> G. Song, K. Zhang, B. Thuraisingham, and J. Cao ✧ <i>Facilitation of e-Meetings: State-of-the-Art Review</i> L. Macaulay and A. Alabdulkarim</p> <p><u>Short:</u> ✧ <i>Caribou: A Supporting Environment for Software e-Development</i> L. Wu, H. Sahraoui, and P. Valtchev ✧ <i>Content Metrics for Products and Services Categorization Standards</i> M. Hepp, J. Leukel, and V. Schmitz</p>
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Reception: (March 30)

Harmony Restaurant
(The Staff Dining Room)
Level 4,
Sir Run Run Shaw Building,
Ho Sin Hang Campus,
Hong Kong Baptist University.

Lunch: (March 30 – April 1)

Renfrew Seafood Restaurant,
Shaw Campus,
Hong Kong Baptist University.

Please gather at the entrance of the Conference Centre at 6:00pm for pick-up.

Banquet: (March 31)

The Patio (lobby level)
Harbour Plaza Metropolis
7 Metropolis Drive, Hunghom
Kowloon, Hong Kong

Please gather at the entrance of the Conference Centre at 6:00pm for pick-up. We will go there by coach. Remember to bring with you the banquet ticket and camera.

