

IEEE Conference on E-Commerce (CEC2003) Final Program

Day 1 (June 24, 2003):

7:30-8:30 Conference Breakfast

8:00-12:30 Tutorial Session

8:00-10:00 Tutorial 1: [Agent Technologies for e-Commerce and e-Services](#)

Jane Hsu, Associate Professor, National Taiwan University

10:00-10:30 Break

10:30-12:30 Tutorial 2: [Trust and Mechanism Design in Electronic Markets](#)

Sviatoslav Braynov, Assistant Professor, University at Buffalo

12:30-14:30 Lunch

14:30-16:00 Session 1. E-Commerce Applications

Session Chair : Jane Hsu, National Taiwan University

- Matchmaking for Business Processes
Andreas Wombacher, Peter Fankhauser, Bendick Mahleko, and Erich Neuhold
- Commitment-Based Approach to Categorizing, Organizing and Executing Negotiation Processes
Haifei Li, Jun-Jang Jeng, and Jen-Yao Chung
- Web Agents for Automating E-Commerce Operations
Juan Raposo, Manuel Alvarez and Ángel Viña
- The security problems of Rivest and Shamir's PayWord Scheme
Norio Adachi, Satoshi Aoki, Yuichi Komano and Kazuo Ohta
- A Study of Mobile Payments System
Xiao-lin Zheng, De-ren Chen

16 :00-16 :30 Break

16 :30-18 :30 Session 2. Techniques for E-Commerce

Session Chair: Haifei Li, IBM T.J. Watson Research Center

- A Tractable Mechanism for Time Dependent Markets.....
Per Carlsson, Arne Andersson, and Fredrik Ygge
- Metering and Accounting for Composite e-Services
Vikas Agarwal, Neeran Karnik, and Arun Kumar
- An Effective Communication Model for Collaborative Commerce of Web-Based Surveillance Services....
Chia-Hui Wang, Ray-I Chang, Jan-Ming Ho, Chia-Chen Wei, Kwei-Jay Lin, and Jan-Ming Ho
- An Efficient Method for Finding Minimum Hash Chain of Multi-Payword Chains in Micropayment
Ching-Nung Yang and Hsu-Tun Teng
- The Design and Implementation of Intelligent Transportation Web Services.....
Chun-Hsin Wu, Da-Chun Su and Justin Chang
- Information Requirement Elicitation in m-Commerce -Concepts and Design.....
Jun Sun, Hoh Peter In, and Kuncara Aji Sukasdadi

18:45 Conference Welcome Reception (St. Emilion Room 339)

Day 2 (June 25, 2003):

7:30-8:30 Conference Breakfast

8:00-9:30 Chairs Message (Kwei-Jay Lin, University of California, Irvine)

Keynote Address: [Building and Managing Adaptive e-Business Solution Infrastructure](#)

David L. Cohn, Director, e-Business Solutions & Autonomic Computing
IBM T.J. Watson Research Center

9:30-10:00 Break

10:00-12:00 Session 3. Negotiation

Session Chair: Hoh Peter In, U. of A&M

AutONA: A System for Automated Multiple 1-1 Negotiation.....	
<i>Andrew Byde, Mike Yearworth, Kay-Yut Chen, and Claudio Bartolini</i>	
Degree of Satisfaction in Agent Negotiation	
<i>K-M Cha, M. Younas, R. Anane, C-F Tsai, and V-W Soo</i>	
Mediating a Bilateral Multi-Issue Negotiation	
<i>Raymund J. Lin and Seng-cho T. Chou</i>	
A Framework for Dynamic eBusiness Negotiation Processes.....	
<i>Jin Baek Kim and Arie Segev</i>	
Monitorable Electronic Contract.....	
<i>Lai Xu</i>	

12:00-13:30 Lunch

13:30-15:30 Session 4. E-commerce Practices

Session Chair: Simon Shim, San Jose State University

Contract Representation for Run-time Monitoring and Enforcement.....	
<i>Carlos Molina-Jimenez, Santosh Shrivastava, Ellis Solaiman, and John Warne</i>	
Enhanced Smart-card based License Management.....	
<i>Mikhail J. Atallah and Jiangtao Li</i>	
Autonomic Economics: Why Self-Managed e-Business Systems Will Talk Money	
<i>Giorgos Cheliotis and Chris Kenyon</i>	
An XML Based Framework for Enterprise Application Integration	
<i>Vishnu S. Pendyala, Simon S.Y. Shim and Jerry Gao</i>	
Managerial Considerations to Adapting Electronic Data Interchange.....	
<i>Trung T. Pham</i>	

15:30-16:00 Break

16:00-18:00 Session 5. E-Marketplace

Session Chair: Liang-Jie Zhang, IBM T.J. Watson Research Center

An Emerging Marketplace for Digital Advertising based on Amalgamated Digital Signage Networks.....	
<i>John V. Harrison and Anna Andrusiewicz</i>	
Evolving Market Design in Zero-Intelligence Trader Markets.....	
<i>Vibhu Walia, Andrew Byde and Dave Cliff</i>	
Concept Exchange: Challenging Interoperable Electronic Product Catalogue in an Emergent Environment	
<i>Jingzhi Guo and Chengzheng Sun</i>	
Trade Determination in Multi-Attribute Exchanges	
<i>S Kameshwaran and Y Narahari</i>	
PCFinder: An Intelligent Product Recommendation Agent for e-Commerce	
<i>Bin Xiao, Esma Aimeur and Jose Manuel Fernandez</i>	

18:30 Banquet

Keynote Address: Pervasive Communication Research at CPCC UC Irvine

Ender Ayanoglu, Director, [Center for Pervasive Communications and Computing](#)
Univ of California, Irvine

Day 3 (June 26, 2003)

7:00-17:00 Registration

8:00-9:30 Keynote Address: [A Collaborative Web Service Platform](#)

Dr. Meichun Hsu, VP Engineering, Commerce One

9:30-10:00 Break

10:00-12:00 Session 6. Business Process Management and Protocol Design

Session Chair: Jen-Yao Chung, IBM

A Performance Model for a Business Process Integration Middleware

Te-Kai Liu, Amir Behroozi and Santhosh Kumaran

How Public Conversation Management Integrated with Local Business Process Management

Qiming Chen, Meichun Hsu, and Vinkesh Mehta

Intermediary Non-repudiation Protocols

Jose Antonio Onieva, Jianying Zhou, Mildrey Carbonelly, and Javier Lopezy

Design of an Efficient Tentative Hold Protocol for Automated Coordination of Multi-Business Transactions

Jonghun Park and Ki-Seok Choi

Two Distributed Algorithms for E-ticket Validation protocols for Mobile Clients.....

T. Suman Kumar Reddy, Hrushikesh Mohanty, R.K. Ghosh, and Sanjay Madria

12:00-13:30 Lunch

13:30-15:30 Session 7. E-Commerce Infrastructure

Session Chair: Tomas Li, IBM China Research Lab

Group oriented Digital Certificate Architecture

Weidong Qiu and Mingxing He

A Policy Framework for Business Activity Management

Jun-Jang Jeng, Henry Chang, and Jen-Yao Chung

Property Propagation Rules for Prioritizing and Synchronizing Trading Activities

Yain-Whar Si, David Edmond, Arthur H.M. ter Hofstede, and Marlon Dumas

Integrating Purchase Patterns and Traversal Patterns to Predict HTTP Requests In E-Commerce Sites

Sudhir Vallamkondu and Le Gruenwald

Adaptive Profiling Framework and System for Service Provisioning.....

Shun Xiang Yang, Ying Nan Zuo, Jing Min Xu, Z. Tian, H. Chang, Liang-Jie Zhang, and Tian Chao

15:30-16:00 Break

16:00-18:30 Session 8. Security and Trust

Session Chair: Sviatoslav Braynov, University at Buffalo

A Reputation-Based Trust Model for Peer-to-Peer eCommerce Communities

Li Xiong and Ling Liu

An Incentive Compatible Reputation Mechanism

Radu Jurca and Boi Faltings

Secure Supply-Chain Protocols	<i>Mikhail J. Atallah, Hicham G. Elmongui, Vinayak Deshpande, and Leroy B. Schwarz</i>
Beyond “web of trust”: Enabling P2P E-commerce	<i>Anwitaman Datta, Manfred Hauswirth, and Karl Aberer</i>
Designing Secure E-Commerce with Role-based Access Control	<i>Cungang Yang and Chang. N. Zhang</i>
A Non-Repudiation Message Transfer Protocol for E-commerce	<i>Seokwon Yang, Stanley Y. W. Su, and Herman Lam</i>

18:45 IBM Reception (Bistrot Terrasse)

Day 4 (June 27, 2003)

7:00-17:00 Registration

8:00-9:30 Keynote Address:

Title: [The Grid: Infrastructure, Applications, and Opportunities](#)

Dr. Carl Kesselman, USC/Information Sciences Institute

9:30-10:00 Break

10 :00-12 :00 Session 9. Auction and Dynamic Pricing

Session Chair: Von-Wun Soo, TsingHua Univ of Taiwan

Generating Realistic Data Sets for Combinatorial Auctions.....	<i>A. Bonaccorsi, B. Codenotti, N. Dimitri, M. Leoncini, G. Resta, and P. Santi</i>
Reinforcement Learning Applications in Dynamic Pricing of Retail Markets.....	<i>C.V.L. Raju, Y.Narahari and K. Ravikumar</i>
Applying Evolutionary Game Theory to Auction Mechanism Design.....	<i>Andrew Bye</i>
Usage-based versus Flat Pricing for e-business Services with Differentiated QoS.....	<i>Z. Liu, L. Wynter and C. Xia</i>
Auctions with Untrustworthy Bidders	<i>Sviatoslav Braynov and Tuomas Sandholm</i>

12:00-13:00 Lunch

13:00-15:00 Session 10. Web Services for Electronic Commerce

Session Chair: Carolyn McGregor, University of Western Sydney

Implementing Conflict of Interest Assertions for Web Services Matchmaking Process.....	<i>Patrick C. K. Hung and Guang-Sha Qiu</i>
Page Digest for Large-Scale Web Services	<i>Daniel Rocco, David Buttler, and Ling Liu</i>
Modeling of Web Services Flow	<i>Johnson P Thomas, Asif Javed, and George Ghinea</i>
FUSION: A System Allowing Dynamic Web Service Composition and Automatic Execution.....	<i>Debra VanderMeer, Anindya Datta, Kaushik Dutta, Helen Thomas, and Krithi Ramamritham</i>
A Framework for Analyzing and Measuring Business Performance with Web Services.....	<i>Carolyn McGregor and Josef Schiefer</i>

15:00-15:30 Break

15:30-17:00 Closing Panel Discussion: Emerging Technical Issues on E-Commerce

Dr. Jen-Yao Chung, IBM T.J. Watson Research Center
Prof. Kwei-Jay Lin, University of California, Irvine
Prof. Von-Wun Soo, TsingHua Univ of Taiwan
Dr. Liang-Jie Zhang, IBM T.J. Watson Research Center

17:00-17:30 Closing Remarks