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

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

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

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

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

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

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