First International Workshop on
Internet Computing and E-Commerce (ICEC'01)

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(in conjunction with IPDPS'01)

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IEEE-CS Technical Committee on Parallel Processing
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in co-operation with IEEE-CS Technical Committee on the Internet

Preface

Internet is regarded as one of the most amazing achievements in the past decade and it changes the way we live. People use the Internet across several different access mediums, including dial-up at home, broadband at work, and wireless devices in between. The Internet is indeed more widely deployed than any other computing system in history and it continues to grow rapidly. As a key application on Internet, E-Commerce has gathered tremendous attention and has become an inter-discipline research topic. New technologies are demanded to provide businesses with enterprise-level quality and reliability, unprecedented speed and flexibility, and the empowerment solutions they require to compete and succeed in today’s digital economy.

The ICEC workshop provides a venue for discussions and demonstrations of the pressing issues and hottest topics concerning the research, technology, and application innovations that are related to Internet computing and E-Commerce. ICEC’01 features two invited papers by Andrew Odlyzko (AT&T Labs – Research, USA) titled “Privacy, Economics, and Price Discrimination on the Internet” and by Adrian Perrig, Sean Smith, Dawn Song, and J. Doug Tygar (University of California – Berkeley, USA) titled “SAM: A Flexible and Secure Auction Architecture Using Trusted Hardware”. We selected 16 papers out of 36 submissions. These papers are from USA, China, Hong Kong, Japan, Korea, Singapore, India, Australia, and Spain. Each paper was reviewed by 2-3 program committee members. The recommendations of the referees determine the selection of acceptance. These papers cover the topics of:

Web-based computing
Network Architectures, Operating System, Computing and Management
Performance Evaluation of the Internet
Quality of Service
Mobile Computing
Web/User Interface/Multimedia/Video/Audio/User Interaction
Java for Networked E-Commerce
Data Replication, Consistency and Caching Algorithms for the Internet
Web Server Design and Consolidation
Web Monitoring and Documents Management
Internet Security and Cryptographic Issues, Methods and Applications
Digital Certification, Identification and Authentication in E-Commerce
Commerce-oriented Middleware Services
Software Requirements and Architectures for E-Commerce
User Interface Support for E-Commerce
Intrusion Prevention, Detection and Tolerance
Agent Technology for E-Commerce
Decision Making in E-Commerce Environments
E-Commerce Application Case Studies

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Hai Jin
Cho-Li Wang
Co-chair of ICEC’01