

Conference Program

Monday 08.30 - 09.00

Opening Ceremony**Location:** Cedar

Monday 09.00 - 10.00

Keynote**Location:** Cedar**Title To be announced soon**

Adam Drobot, Corporate VP, Telcordia

Monday 10.30 - 12.00

Session 1 Distributed Collaboration in Mobile Computing**Location:** Pine

Session Chair: Marco Ronchetti, University of Trento, Italy

Collaborative Sensing Using Uncontrolled Mobile Devices

Sunil Madhani, Miriam Taulil, and Tao Zhang

Collaborative Movement of Rescue Robots for Reliable and Effective Networking in Disaster Area

Hisayoshi SUGIYAMA, Tetsuo TSUJIOKA, and Masashi MURATA

Distributed Core Assisted Scalable Data Dissemination in Mobile Ad Hoc Networks

G. Das, M. Fazio, M. Villari, and A. Puliafito

Session 2 Collaborative Enterprise Applications**Location:** Fir

Session Chair: Calton Pu, Georgia Institute of Technology

Collaborative Development of Business Applications

Gautam Shroff, Anish Mehta, Puneet Agarwal, Rajesh Sinha

Design of a Feedback Control System for the Optimization of Technical Customer Service Collaboration Processes

Tanja Klostermann, and Dieter Spath

Dynamic Virtual Organization Management for Service Oriented Enterprise Applications

Philip Robinson, Yücel Karabulut, and Jochen Haller

Monday 14.00 - 15.30

Session 3 Location Estimation and Routing in Wireless Sensor Networks**Location:** Pine

Session Chair: Prathima Agrawal, Telcordia Technologies, USA

The Theory and Practice of Signal Strength-Based Location Estimation

A.S. Krishnakumar and P. Krishnan, Avaya Labs, Basking Ridge

Location assisted routing for near-far effect mitigation in wireless networks

Hassan Mahmood and Cristina Comaniciu

Localization of sensor networks considering energy accuracy tradeoff

S. Pandey, P. Prasad, P. Sinha and P. Agrawal

Panel 1: Collaborative Enterprise Applications**Location:** Fir

Moderator: Calton Pu, Georgia Institute of Technology

Monday 16.00 - 17.30

Session 4 Collaborative Framework in Education and e-Learning**Location:** Pine

Session Chair: Stephen Fickas, University of Oregon, USA

ChinaGrid and its Impact to Science and Education in China

Hai Jin and Li Qi

Developing a Framework for Integrating Prior Problem Solving and Knowledge Sharing Histories of a Group to Predict Future Group Performance

Ron Stevens, Alessandra Giordani, Melanie Cooper, Amy Soller, Luca Gerosa, Charlie Cox

Designing Collaborative Environments and their Application in Learning

M. Antonia Martinez Carreras, Antonio F. Gomez Skarmeta, and Eduardo Martinez Gracia

Session 5 Reputation and Trust Management

Location: Fir

Session Chair: Lakshmi Ramaswamy, University of Georgia, USA

Performance Evaluation of Rating Aggregation Algorithms in Reputation Systems

Zhengqiang Liang, and Weisong Shi

Q-Chain: Building Reputation Based Trust Chains in Decentralized Peer-to-Peer Networks

Praveen Kumar, Srividya Gopalan, and Sridhar V.

Analysis of Peer-to-peer Distributed Reputation Schemes

Manuel Rodriguez-Perez, Oscar Esparza, and Jose Munoz

Monday 18.30

Conference Banquet

Location: Cedar

Announcement of the 2nd CollaborateCom conference

Tuesday 09.00 - 10.30

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Session 6 Distributed Collaboration in Peer to Peer Computing

Location: Pine

Session Chair: Hai Jin, Huazhong University of Science and Technology, China

A formal communication model for lookup operations in a hypercube-based P2P data store

Dietrich Fahrenholtz, and Andreas Wombacher

Scheduling Algorithms for Peer-to-Peer Collaborative File Distribution

Jonathan S.K. Chan, Victor O.K. Li, and King-Shan Lui

The P2P MultiRouter: a Black Box Approach to Run-time Adaptivity for P2P DHTs

James Newell, and Indranil Gupta

Session 7 Security in Collaborative Systems and Applications

Location: Fir

Session Chair: Ling Liu, Georgia Institute of Technology

The Nizza Secure-System Architecture

Hermann Hartig, Michael Hohmuth, Norman Feske, Christian Helmuth, Adam Lackorzynski, Frank Mehnert, and Michael Peter

An Experimental Evaluation of Spam Filter Performance and Robustness Against Attack

Steve Webb, Subramanyam Chitti, and Calton Pu

Secure and Efficient Key Distribution for Collaborative Applications

Fuwen Liu, and Hartmut Koenig

Tuesday 11.00 - 12.30

Session 8 Localization in Wireless Sensor Networks

Location: Pine

Session Chair: Prathima Agrawal, Telcordia Technologies, USA

Strategies for Mitigating the Sensor Network Hot Spot Problem

Mark Perillo, Zhao Cheng and Wendi Heinzelman

Location Based Group Services Architecture and Group Key Management

Y. Sun, P. Liu, P. Kermani, T. F. La Porta

Impact of sniffer deployment on indoor localization

S. Biaz, Y. Ji and P. Agrawal

Panel 2: Collaborative Computing: Where we are and where we might be going?

Location: Fir

Moderator: Ling Liu, Georgia Institute of Technology

Tuesday 14.00 - 15.30

Session 9 Collaborative Information Flow Systems

Location: Pine

Session Chair: Yael Karabulut, SAP, USA

Integration of Collaborative Information System in Internet Applications using RiverFish Architecture

João Eduardo Ferreira, Osvaldo Kotaro Takai, and Calton Pu

Maintaining Multi-way Dataflow Constraints in Collaborative Systems

Kai Lin, David Chen, Geoff Dromey, and Chengzheng Sun

Enabling Pervasive Execution of workflows

Frederic Montagut, and Refik Molva

Session 10 Collaborative Computing Applications

Location: Fir

Session Chair: Hermann Hartig, Dresden University of Technology, Germany

The Plain Old Television in a Smart Apartment

Zebin Chen and Stephen Fickas

A Collaborative Multi-Agent based Conference Planner Application using Web and Grid Services

Amina Tariq, Amna Basharat, Arshad Ali, Hafiz Farooq Ahmad, and Hiroki Suguri

Enabling Technologies for AgriKiosk Project in reaching out Remote Area Farmers

M. Afzal, J. Zubairi, A. Akram, S. Ahmad, and S. Kausar

Tuesday 16.00 - 17.30

Session 11 Collaborative Interaction in e-Education and e-Learning

Location: Pine

Session Chair: Heri Ramampiaro, Norwegian Univ. of Science and Technology, Norway.

OpenSeminar: A Web-Based Collaboration Tool for Open Educational Resources

Michael Rappa, Sarah E. Smith, Alex Yacoub, and Laurie Williams

Supporting Workspace-Mediated Interaction in Collaborative Presentations with CoPowerPoint

Steven Xia, David Sun, Chengzheng Sun, and David Chen

Dynamic Network Reconfiguration in Presence of Multiple Node and Link Failures using Autonomous Agents

Juan Ramon Acosta, and Dimiter R. Avresky

Session 12 Collaborative Computing in Overlay Networks

Location: Fir

Session Chair: Andreas Wombacher, University of Twente, The Netherlands

On-Demand Overlay Networking of Collaborative Applications

Cheng-Jia Lai and Richard R. Muntz

Efficient Delivery of Dynamic Content: The Cooperative EC Grid Project

Lakshmish Ramaswamy and Jianxia Chen

Free Riders under Control through Service Differentiation in Peer-to-Peer Systems

Loubna Mekouar, Youssef Iraqi, and Raouf Boutaba

Wednesday 08.00 - 10.00

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Session 13 Floor Control for Collaborative Applications

Location: Pine

Session Chair: Hermann Hartig, Dresden University of Technology, Germany

Isabel: An Application for real time Collaboration with a flexible Floor Control

Juan Quemada, Tomás de Miguel, Santiago Pavon, Gabriel Huecas, Tomas Robles, Joaquín Salvachúa, Diego Andres Acosta Ortiz, Vicente Sirvent, and Fernando Escribano

Distributed Floor Control Protocols for Computer Collaborative Applications on Overlay Networks

Shankar M Banik, Sridhar Radhakrishnan, Tao Zheng, and Chandra N Sekharan

Floor Control Alternatives for Distributed Videoconferencing over IP Networks

J.J. Garcia-Luna-Aceves, Patrick E. Mantey, and Sireesh N. Potireddy

Session 14 Potpourri

Location: Fir

Session Chair: Weisong Shi, Wayne State University, USA

A Collaborative and Multi-Agent System for E-mail Filtering and Classification

Lorenzo Lazzari, Marco Mari, and Agostino Poggi

Portable Enterprise Collaboration Contexts

Siddhartha Bose, Anuraj Ennai, and Subodh Sohi

Differentiating between Accountable and Ephemeral Events in the ABC Hybrid Architecture for Activity-Based Collaboration

Jakob E. Bardram, Jonathan Bunde-Pedersen, and Martin Mogensen

Wednesday 10.30 - 12.30

Session 15 Collaborative Monitoring, Discovery, and Dissemination

Location: Pine

Session Chair: Sunil Madhani, Telcordia Technologies, USA

Collaborative Sensor Computing for Distributed Data Rectification and Process Monitoring

Zhong Qiang DING, AENDENROOMER ANTON J.R., Yen Yen JOE, Keck Voon LING, and Jose ROMAGNOLI

Distributed Service Discovery using Preference

Ryota Egashira, Akihiro Enomoto, and Tatsuya Suda

Efficient Event and Query Distribution in Sensor Networks

Man-Hon Chan, King-Shan Lui, and Vincent Tam

On Overlay Multicast Tree Construction and Maintenance

Tin-Man T. Kwan, and Kwan L. Yeung

Session 16 Collaborative Editing and Writing Systems

Location: Fir

Session Chair: Xia Gao, DoCoMo Labs, USA

Collaborative Object Grouping in Graphics Editing Systems

Steven Xia, David Sun, Chengzheng Sun, and David Chen

Syntax-based Reconciliation for Asynchronous Collaborative Writing

Haifeng Shen, and Chengzheng Sun

Object-Associated Telepointer for Real-Time Collaborative Document Editing Systems

Steven Xia, David Sun, Chengzheng Sun, and David Chen

Commutativity-Based Concurrency Control in Groupware

Rui Li, and Du Li