



The 13th IEEE International Conference on CSCW in Design (CSCWD 2009)

CSCWD 2009 Technical Program

April 22-24, 2009, Santiago, Chile

Tuesday, April 21, 2009

17:30 - 19:00	Registration and Welcome Reception, University of Chile headquarters – Courtyard – Av. B. O’Higgins 1058 (Subway station: Universidad de Chile, on Line 1)
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Wednesday, April 22, 2009

07:30 - 18:30	Registration, University of Chile, Geology Department, Plaza Ercilla 803 (Toesca or Parque O’Higgins subway stations on Line 2)		
08:30 - 09:15	Opening Plenary - Gorbea Auditorium		
09:15 – 10:15	Keynote Speech by Dr. Kori Inkpen Quinn - Gorbea Auditorium		
10:15 – 10:45	Coffee/Tea Break - Geology Department		
10:45 – 12:45	Session A1: 5 papers	Session B1	Session C1
12:45 – 14:00	Lunch		
14:00 – 16:00	Session A2: 5 papers	Session B2	Session C2
16:00 – 16:30	Coffee/Tea Break		
16:30 – 18:00	Session A3: 4 papers	Session B3	Session C3
18:20 – 21:00	IEEE SMC CSCWD TC Meeting and CSCWD Steering Committee Meeting Council Room		

Thursday – April 23, 2009

08:30 - 09:30	Keynote Speech by Dr. Michael Huhns - Gorbea Auditorium		
09:40 – 11:10	Session A4; 4 papers	Session B4	Session C4
11:10 – 11:30	Coffee/Tea Break - Geology Department		
11:30 – 13:00	Session A5: 4 papers	Session B5	Session C5
13:00 – 14:00	Lunch		
14:00 – 14:40	Best Paper Awards Ceremony and 2010 CSCWD Conference Presentation Gorbea Auditorium		
14:50 – 22:00	Social event and Conference Dinner – Pick up in front of the Engineering School – Beaucheff St. 850		

Friday, April 24, 2009

08:30 - 09:30	Keynote Speech by Dr. Silvio Meira - Gorbea Auditorium		
9:40 – 11:10	Session A6: 4 papers	Session B6	Session C6
11:10 – 11:30	Coffee/Tea Break		
11:30 – 13:00	Session A7: 4 papers	Session B7	Session C7
13:00 – 14:00	Lunch		
14:00 – 15:30	Session A8: 4 papers	Session B8	Session C8
15:30 – 16:00	Coffee/Tea Break		
16:00 – 17:10	Session A9: 3 papers	Session B9	Session C9

A1: Workflows for Cooperative Design – Room # G110

Session Chair: Dr. Jano de Souza

3352: An Improved Simulated Annealing Algorithm for Process Mining

Dianfang Gao, Qiang Liu

3370: Collaborative Execution Mechanisms for the TCPN-Enhanced Process-View Approach Based Inter-Enterprises Workflow

Ping Jiang, Liang Gao, Peigen Li, Haobo Qiu

3442: Autonomic Collaborative RSS: an Implementation of Autonomic Data using Data Killing Patterns

Wallace Pinheiro, Marcelino C. O. Silva, Ricardo Barros, Geraldo Xexéo, Jano M. de Souza

3463: Initial Findings from an Observational Study of Software Engineers

Márcio K. Gonçalves, Cleidson R. B. de Souza, Victor M. González

3468: Mining and Analyzing Organizational Social Networks for Collaborative Design

Ricardo Silva, Victor Menezes, Jonice Oliveira, Moisés Ferreira de Souza, Carlos Eduardo R. de Mello, Jano M. Souza, Geraldo Zimbrão

A2: Techniques, Methods and Tools for CSCW in Design (1) – Room # G110

Session Chair: Dr. Alberto Raposo

3312: Analyzing the Use of VoIP Technology in Collaborative Modeling

Mauro Pichiliani, Celso Hirata

3320: An Ontological Conceptualization Approach for Awareness in Domain-Independent Design Groupware

Jesús Gallardo, Ana I. Molina, Crescencio Bravo, Miguel A. Redondo, César A. Collazos

3314: A New Collaborative Scheme of Test Data Compression and Power Reduction Based on Sharing-Run-Length Coding

Wenfa Zhan, Aiman El-Maleh

3353: A Role Hierarchical Group Awareness Model and Its Time Possibility Analysis Based Fuzzy Time

Jun Zhu, Yong Tang, Jianguo Li, Hai Liu

3382: Leveraging Single-user AutoCAD for Collaboration by Transparent Adaptation

Yang Zheng, Haifeng Shen, Chengzheng Sun

A3: Techniques, Methods and Tools for CSCW in Design (2) – Room # G110

Session Chair: Dr. Patrick Brezillon

3373: Model for Planning Problem of Diaphragm Caustic Soda and its Approach based on Particle Swarm Optimization Algorithm

Wanliang Wang, Huixu Teng, Zheng Wang, Yanwei Zhao

3374: Random Stimulus Generation with Self-tuning

Yanni Zhao, Jinian Bian, Shujun Deng, Zhiqiu Kong

3376: Explaining for Developing a Shared Context in Collaborative Design

Patrick Brezillon

3386: Supporting Semantic Maintenance of Complex Undo Operations in Replicated Co-AutoCAD Environments

Liping Gao, Tun Lu, Ning Gu

A4: Techniques, Methods and Tools for CSCW in Design (3) – Room # G110

Session Chair: Dr. Kuo-Ming Chao

3364: Collaboration Engineering, Philosophy, and Democracy with LaSca

Gustavo Carvalho, Jano Moreira de Souza, Sérgio Palma da Justa Medeiros

3403: An Active Controller for Genetic Algorithm Search

Chen-Fang Tsai, Kuo-Ming Chao

3404: Techniques of user-mode detecting System Service Descriptor Table

Jiayuan Zhang, Shufen Liu, Jun Peng, Aijie Guan

3412: A Self-embedded Watermarking Scheme Based on Relationship Function of Corresponding Inter-blocks DCT Coefficient

Guobo Li, Songwen Pei, Gang Chen, Wenjun Cao, Baifeng Wu

A5: Techniques, Methods and Tools for CSCW in Design (4) – Room # G110

Session Chair: Dr. Stephen Chan

3413: GPGPU Supported Cooperative Acceleration in Molecular Dynamics

Gang Chen, Guobo Li, Songwen Pei, Baifeng Wu

3416: Classification of proposal in CSCW based on a Taxonomy

William J. Giraldo, Ana I. Molina, Jesús Gallardo, Cesar A. Collazos, Manuel Ortega, Miguel A. Redondo

3417: Dynamic Collaborative Robotic Platform: A Brief Introduction

Jason T.P. Tse, Stephen C.F. Chan, Grace Ngai, Joey C.Y. Cheung and Vincent T.Y. Ng

3497: NK-Sys: A Negotiation Environment Based on the 3C Collaboration Model

Danilo Braga de Lima, Luís Theodoro Oliveira Camargo, Melise Maria Veiga de Paul, Jonice Oliveira, Jano Moreira de Souza

A6: Distance Learning / Education (1) – Room # G110

Session Chair: Dr. Debbie Richards

3358: Learning to Collaboratively Design Software Systems

Debbie Richards, Andreas U Kuswara

3379: A Collaborative Learning Activity and a Software Tool for Improving Language Skills

Luis Guerrero

3389: Collaborative Technologies in International Distance Education

Richard Anderson, Ruth Anderson, Natalie Linnell, Mansoor Pervaiz, Umar Saif, Fred Videon

3396 ETM Toolkit: A Development Tool Based On Extended Topic Map

Lu Jiang, Jun Liu, Zhaohui Wu, Qinghua Zheng, Yanan Qian

A7: Distance Learning / Education (2) – Room # G110

Session Chair: Dr. Nelson Baloian

3414: Cooperative Creation of Concept Keyboards in Distributed Learning Environments

Benjamin Weyers, Nelson Baloian, Wolfram Luther

3415: Clustering Learners According to Their Collaboration

Antonio R. Anaya, Jesús G. Boticario

3449: Can e-Learner's Emotion be Recognized from Interactive Chinese Texts?

Feng Tian, Qinghua Zheng, Ruomeng Zhao, Tonghao Chen, Xinyan Jia

3465: A CMT-based Modeling Language for Courseware Design

Emilio Ormeño, Sergio Ochoa, Francisco Ibañez, M. Inés Lund, Susana Ruíz, Laura Aballay, Víctor Rosales

A8: User Modeling for Cooperative Design – Room # G110

Session Chair: Dr. Flavia Santoro

3418: A Framework for Collaborative eTextiles Design - An Introduction to Co-eTex

Grace Ngai, Stephen C.F. Chan, Winnie W.Y. Lau & Joey C.Y. Cheung

3419: A Trust-based Recommender System for Collaborative Networks

Leonardo Zanette, Claudia Motta, Flavia Santoro, Marcos Elia

3422: An Approach for Defining Digital Democracy Support based on ICT

Bruna Diirr, Renata Araujo, Claudia Cappelli

3451: Applying Group Storytelling to Capture Innovation Features

Rafael Escalfoni, Vanessa Braganholo, Marcos Borges

A9: Other Applications (1) – Room # G110

Dr. Florian Gerhardt (to be confirmed)

3360: Applying GIS-based Rainwater Harvesting Design System in the Water-Energy Conservation Scheme for Large Cities

Yie-Ru Chiu, Chao-Hsien Liaw, Chih-Yang Hu, Yao-Lung Tsai, Hsueh-Hsien Chang

3310: A Lattice Based Evolution Scheme with Applications to Design Optimization

Xiyu Liu, Hong Liu

3313: Extensible JT Open Tool for Prototypical Process Support, based on OpenSceneGraph and QT

Martin Eigner, Florian Gerhardt

B1: Intelligent Agents and Multi-Agent Systems for Cooperative Design (1) – Room # G106

Session Chair: Dr. Fabricio Enembreck

3328: Multi-agent Based Integration of Process Planning and Scheduling

Xinyu Li, Weidong Li, Liang Gao, Chaoyong Zhang, Xinyu Shao

3333: Motivated Learning Agent Model for Distributed Collaborative Systems

Rui Wang, Xiangyu Wang, Wei Wang

3350: Encrypted Certified Trust in Multi-Agent System

Vanderson Botelho, Fabricio Enembreck, Braulio Avila, Hilton Azevedo, Edson Scalabrin

3361: Maintenance Chain Integration Using Petri-net Enabled Prometheus MAS Modeling Methodology

Amy Trappey, David W. Hsiao, Lin Ma, Yu-Liang Chung

3378: Distributed Constraint Optimization for Scheduling in CSCWD

Fabricio Enembreck, Edson Emilio Scalabrin, Bráulio Coelho Ávila, Jean-Paul A. Barthès

B2: Intelligent Agents and Multi-Agent Systems for Cooperative Design (2) – Room # G106

Session Chair: Dr. Anne James (to be confirmed)

3411: OMAS - A Flexible Multi-Agent Environment for CSCWD

Jean-Paul A. Barthes

3423: An Architecture for Supporting Small Collocated Teams in Cooperative Software Development

Bruno Campagnolo, Cesar A. Tacla, Emerson C. Paraiso, Gilson Y. Sato, Milton P. Ramos

3455: Modeling Intermediation System Based on Intelligent Agents for Community of Practices

Kenfack Clauvice

3458: Supporting Collaborative Virtual Meetings using Multi-Agent Systems

Phil Thompson, Rahat Iqbal, Anne James

3474: A Learning Agent to Help Drive Vehicles

André P. Borges, Richardson Ribeiro, Bráulio Ávila, Fabricio Enembreck, Edson E. Scalabrin

B3: Intelligent Agents and Multi-Agent Systems for Cooperative Design (3) – Room # G106

Session Chair: Dr. Vincent Ng

3481: Agent-Based Assistance for Engineering Change Management: An Implementation Prototype

Dounia Habhouba, Alain Desrochers, Soumaya Cherkaoui

3482: Study on Collaborative Technical Service System Oriented Product Lifecycle Based on Multi-agent

Tianbiao Yu, Jing Zhou, Junmei Ding, Wanshan Wang

3491: Multi-Site Collaborative Airfreight Cargo Packing

Vincent Ng, Suo Na, Stephen Chan

3502: A Collaborative Multi-Camera Surveillance System for Role Identification

Anlong Ming, Huadong Ma

B4: Knowledge Management for Cooperative Design (1) – Room # G106

Session Chair: Dr. Qinghua Zheng (to be confirmed)

3392: A Collaborative Knowledge Construction System Design for Massive Knowledge Resources

Qinghua Zheng, Zhaohui Wu, Lu Jiang, Jun Liu

3453: A Process for the Design of Context-Sensitive Systems

Vaninha Vieira, Patricia Tedesco, Ana Carolina Salgado

3456: Troubleshooting Collaborative Ontology Design

Angela Gomes, Adriana S. Vivacqua, Ana Cristina B. Garcia

3457: User-Centred Design and Evaluation of Support Management System

Rahat Iqbal, Nazaraf Shah, Anne James, Jacob Duursma

B5: Knowledge Management for Cooperative Design (2) – Room # G106

Session Chair: Dr. Paulo Victor Carvalho

3466: Business Process Mining from Group Stories

João Carlos de A.R. Gonçalves, Flávia Maria Santoro, Fernanda Araujo Baião

3476: Collaborative Ethnography: An Approach to The Elicitation of Cognitive Requirements of Teams

Luiz Carlos L. Silva Junior, Marcos R. S. Borges, Paulo Victor R. de Carvalho

3478: E-Breaker: Flexible, Distributed Environment for Collaborative Authoring

Nelson Baloian, Francisco Claude, Roberto Konow, Sebastian Kreft

3479: Determining Task Priority in Dual-shore Collaborative Software Design via Petri Net based Behavior Compatibility Analysis

Bin Xu, Yun Ling, Xiaojun Li, Yi Zhuang, Bo Jiang, Shuai Zhang, Keting Yin

B6: Grids, Web Services, and Semantic Web for CSCW in Design (1) – Room # G106

Session Chair: Dr. Kenji Sugawara

3366: Multilingual Collaborative Design Support System

Claude Moulin, Kenji Sugawara, Shigeru Fujita, Laurent Wouters, Yusuke Manabe

3398: The Research on Power Marketing DSS based on Distributed Collaborative Forecasting model

Xuefeng Chen, Chaozhen Guo

3445: SAGA Reloaded: Towards a Generic Platform for Developing Cooperative Applications

Benjamim Fonseca, Hugo Paredes, João Paulo Sousa, F. Mário Martins, Eurico Carrapatoso

3464: Instance-based Domain Ontological View Creation

Yunjiao Xue, Hamada H. Ghenniwa, Weiming Shen

B7: Grids, Web Services, and Semantic Web for CSCW in Design (2) – Room # G106

Session Chair: Dr. Yinsheng Li

3452: A Platform for the Temporal Evaluation of Team Communication in Distributed Design Environments

Matthias Uflacker, Alexander Zeier

3489: Service-Oriented Coordinated Intelligent Rational Agent Model for Distributed Information Systems

Ying Daisy Wang, Hamada Ghenniwa, Weiming Shen, Yunjiao Xue

3498: A Collaborative Travel Service Portal with Multi-Level Authentication

Yinsheng Li, Haifeng Xie, Mu Zhu, Bing Dong, Kuo-Ming Chao

3507: Adaptive User Defined Transaction Relaxing Approach for CSCW

Tshoganetso Khachana, Anne James, Rahat Iqbal

B8: Practice and Experience with Collaborative Systems – Room # G106

Session Chair: Dr. Pedro Antunes

3432: A Novel Flow Multiplication Attack against Tor

Xiaogang Wang, Junzhou Luo, Ming Yang, Zhen Ling

3437: The Evolution of Expertise in Decision Support Technologies: A Challenge for Organizations

Steve Diasio, Nuria Agell

3438: Cooperation in Musical Prototypes Design

Aurelio Hoppe, Evandro M. Miletto, Luciano V. Flores, Marcelo S. Pimenta

3447: Tackling Collaborative-Design of Mobile Prototypes

Luís Carriço, Luís Duarte, Marco de Sá, Rogério Bandeira, Pedro Antunes

B9: Other Applications (2) – Room # G106

Session Chair: Dr. Ching-Lung Lin

3315: Application of Artificial Intelligence and Non-intrusive Energy-managing System to Economic Dispatch Strategy for Cogeneration System and Utility

Hsueh-Hsien Chang, Ching-Lung Lin, and Lin-Song Weng

3321: Development of A Hierarchical Saving Power System for Campus

Ching-Lung Lin, Yuan-Chuen Hwang, Ching-Feng Lin

3324: Sentence Similarity Computation Based on Feature Set
Yi Liu, Qiang Liu

C1: Mobile Collaboration and Applications (1) – Room # G107

Session Chair: Dr. Ruizhong Wei

3318: Designing and Evaluating Interfaces for Mobile Groupware Systems
Carla Diacui Medeiros Berkenbrock, Alexandre Parra Carneiro da Silva, Celso Massaki Hirata
3362: CPLD-based Optimal Control for Wireless Remote Control Pruning Machine
Junmei Zhang, Wenbin Li, Chao Sa, Deming Wang, Dongxu Cui
3380: A PDA-based Collaborative Tool for Learning Chemistry Skills
Carlos Hurtado, Luis Guerrero
3410: Modeling Groupware for Mobile Collaborative Work
Valeria Herskovic, Sergio F. Ochoa, José A. Pino
3421: Zero-knowledge Trust Negotiation
Bo Wang, Ruizhong Wei

C2: Mobile Collaboration and Applications (2) – Room # G107

Session Chair: Dr. Gustavo Zurita

3427: Developing Collaborative Peer-to-Peer Applications on Mobile Devices
Claudio Sapateiro, Nelson Baloian, Pedro Antunes, Gustavo Zurita
3429: Designing Mobile Shared Workspaces by Instantiation
Juan Rodríguez-Covili, Sergio F. Ochoa, José A. Pino, Jesus Favela, David Mejía, Alberto L. Morán
3434: Gateway Placement Optimization for Load Balancing in Wireless Mesh Networks
Wenjia Wu, Junzhou Luo, Ming Yang
3441: SDSPM-based User Interest Prediction in Collaborative Graphics Design Systems under Ubiquitous Environment
Bo Jiang, Jian Zhou, Chun Chen
3461: MCPresenter: A Mobile Tool Supporting Various Collaborative Learning Practices in the Classroom
Dusan Juretic, Gustavo Zurita, Nelson Baloian

C3: Mobile Collaboration and Applications (3) – Room # G107

Session Chair: Dr. Sergio Ochoa

3467: A Conflict Resolution Methodology for Collaborative Ubiquitous Context-Aware Applications
Thais R. M. Braga Silva, Antonio A. F. Loureiro, Linnyer Beatrys Ruiz
3472: MobileMap: A Collaborative Application to Support Emergency Situations in Urban Areas
Alvaro Monares, Sergio F. Ochoa, José A. Pino, Valeria Herskovic, Andrés Neyem
3503: Localization in Cooperative Wireless Sensor Networks: A Review
Mert Bal, Min Liu, Weiming Shen, Hamada Ghenniwa
3508: Telecare System Using RF Communication Technology in Elderly Center
Ching-Lung Lin, Lin-Song Weng, Hsueh-Hsien Chang, and Ching-Feng Lin

C4: VR Technologies for Cooperative Design – Room # G107

Session Chair: Dr. Milton Ramos

3330: Improving Mutual Awareness and Distributed Cognition in Collaborative Design Communication via a Virtualized Reality-Integrated Telepresence System
Wei Wang, Xiangyu Wang
3381: Using Petri Nets to Specify Collaborative Three Dimensional Interaction
Rafael Rieder, Márcio Sarroglia Pinho, Alberto Raposo
3388: Towards the Use of Collaborative Virtual Environments to Crew Unmanned Oil Platforms
Hugo Fuks, Alberto Raposo, Simone Barbosa, Heloisa Moura, Andréia Soares, Márcio Cunha, Marcelo Gattass, Carlos Lucena
3495: Bridging Shape Grammar and Tangible Augmented Reality into Collaborative Design Learning
Irene Rui Chen, Xiangyu Wang, Wei Wang

C5: Collaboration in Manufacturing, Construction, Services, and Virtual Enterprises (1) – Room # G107

Session Chair: Dr. Amy J.C. Trappey

3304: Adding a Resilience-Enhanced Component to the WfMC Reference Architecture

Pedro Antunes, Hernani Mourao

3385: The Analysis and Development of Taiwan's Industrial Logistics Hubs

Charles V. Trappey, Amy J.C. Trappey, Gilbert Y.P. Lin, C.S. Liu, W.T. Lee

3332: Designing Collaboration on a Microsoft WSS Platform: a Relevant Web-Parts Choice

Philippe Viguié, Pascale Zaraté, Jean-Luc Soubie

3338: Collaborative Networks: Human Aspects and Corresponding IT Support

Michel Pouly, Charles Huber

C6: Collaboration in Manufacturing, Construction, Services, and Virtual Enterprises (2) – Room # G107

Session Chair: Dr. Pedro Company

3341: Similarity Based Ant-colony Algorithm for Permutation Flowshop Scheduling Problems with Total Flowtime Minimization

Yi Zhang, Xiaoping Li, Qian Wang, Jie Zhu

3363: Conceptual Modeling and Generator Framework for Multidisciplinary and Collaborative Product Lifecycle Management

Fabrice Mogo Nem, Martin Eigner

3384: Ceramic Tile Design: A Case Study of Collaborative New-Product Development in Fashion-Driven Chains

María-Jesús Agost, Pedro Company, Fernando Romero

3325: A Methodology Towards Implementing of Performance Management for Virtual Enterprises

Wenan Tan, Xianhua Zhao, Weiming Shen, Chuanqun Jiang

C7: Collaboration in Manufacturing, Construction, Services, and Virtual Enterprises (3) – Room # G107

Session Chair: Dr. Wenfeng Li

3408: Using the Generic Product Model for Storing and Sharing ERP Data

Souleiman Naciri, Michel Pouly, Jean-Charles Binggeliy, Remy Glardon

3435: A Simulation Study of Transshipment Cooperation Based on Distributed Inventory Systems

Wei Wu, Wenfeng Li

3484: A KMS to Support Collaborative Innovation – The Design of Brazilian Solid Oxide Fuel Cell Case

Jonice Oliveira, Vanessa Mattos, Alfredo Laufer, Jano M. de Souza, Paulo Emilio Miranda

3485: Collaborative Working Spheres as Support for Starting Collaboration in Distributed Software Development

Ramón R. Palacio, Alberto L. Morán, Víctor M. González, Aurora Vizcaino

C8: Collaboration in Manufacturing, Construction, Services, and Virtual Enterprises (4) – Room # G107

Session Chair: Dr. Jonice Oliveira

3493: Does Conference Participation Lead to Increased Collaboration? A Quantitative Investigation

Bruno A. Osiek, Geraldo Xexéo, Adriana S. Vivacqua, Jano M. de Souza

3496: Investigation into registration of scanned 3D Image based geometric feature identification

Lirong Wang, Fang Xu and Ichiro Hagiwara

3501: International Industrial Design Studio project: Design for Development in the Era of Collaborative Networks

Mauricio Novoa

3504: Analysis and Balancing of Social Network to Improve the Knowledge Flow on Multidisciplinary Teams

Rafael Studart Monclar, Jonice Oliveira, Jano Moreira de Souza

C9: Collaboration in Manufacturing, Construction, Services, and Virtual Enterprises (5) – Room # G107

Session Chair: Dr. Jianming Yong

3505: A Collaborative Approach to Building Evaluated Web Pages Datasets

Ricardo Barros, José A. Rodrigues Nt., Heraldo J. A. Carneiro Filho, Fabrício R. S. Ferreira, Olivério C. Fernandes, Carlos Eduardo P. Silva, André L. G. Ribeiro, Geraldo B. Xexéo, Jano M. de Souza

3506: Privacy Preserving on Radio Frequency Identification Systems

Hua Wang, Lili Sun, Jianming Yong, Yongbing Zhang

3510: Development of a Real-time Mine Auxiliary Monitoring System Using RF Wireless Sensor Networks

Lin-Song Weng, Ching-Lung Lin, and Hsueh-Hsien Chang