

CSCWD 2010 Technical Program

April 14-16, 2010, Shanghai, China

Tuesday, April 13, 2010

17:30 - 19:00	Registration and Welcome Reception Starry Sky Cafe, the 15 th Floor, Guanghua Building
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Wednesday, April 14, 2010

07:30 - 08:30	Registration, the 4 th Floor, Guanghua Building		
08:30 - 08:45	Opening Plenary No. 2 Auditorium (102), the 1 st Floor of East Sub-building, Guanghua Building		
08:45 - 09:45	Keynote Speech by Prof. Chengzhen Sun No. 2 Auditorium (102), the 1 st Floor of East Sub-building, Guanghua Building		
09:45 - 10:00	Coffee/Tea Break		
10:00 - 12:00	Session A1: 6 papers No. 1 Meeting Room, the 4 th Floor, Guanghua Building	Session B1: 7 papers No. 2 Meeting Room, the 4 th Floor, Guanghua Building	Session C1: 6 papers No. 3 Meeting Room, the 4 th Floor, Guanghua Building
12:00 - 13:30	Lunch- Fuxuan Hotel		
13:30 - 15:30	Session A2: 7 papers	Session B2: 6 papers	Session C2: 6 papers
15:30 - 15:45	Coffee/Tea Break		
15:45 - 17:45	Session A3: 7 papers	Session B3: 7 papers	Session C3: 5 papers
18:00 - 21:00	Dinner IEEE SMC CSCWD TC Meeting and CSCWD Steering Committee Meeting Professor Dining-Hall		

Thursday - April 15, 2010

08:30 - 10:00	Session A4: 5 papers	Session B4: 5 papers	Session C4: 5 papers
10:00 - 10:15	Coffee/Tea Break		
10:15 - 12:15	Session A5: 7 papers	Session B5: 7 papers	Session C5: 7 papers
12:15 - 13:30	Lunch- Fuxuan Hotel		
13:30 - 15:15	Session A6: 6 papers	Session B6: 6 papers	Session C6: 6 papers
15:15 - 15:30	Coffee/Tea Break		
15:30 - 17:15	Session A7: 6 papers	Session B7: 6 papers	Session C7: 5 papers
19:00 - 23:00	Conference Banquet - Seagull Place, 2852 Binjiang Avenue, Pudong District		

Friday, April 16, 2010

8:30 - 10:10	Keynote Speech by Prof. Jianrong Tan 2010 CSCWD Conference Presentation Best Paper Awards Ceremony No. 2 Auditorium (102), the 1 st Floor of East Sub-building, Guanghua Building		
10:10 - 10:20	Coffee/Tea Break		
10:20 - 12:00	Session A8: 5 papers	Session B8: 5 papers	Session C8: 5 papers
12:15 - 13:30	Lunch- Fuxuan Hotel		

A1: Collaboration in Manufacturing, Services, and Businesses (I)

Task-oriented BOM Conversion and View Mapping

Meng Xiaojun, Zhang Xu, Ning Ruxin, Wang Aimin

The Real-time Dynamic Heuristic Scheduling for Complex Production Planning

Yiping Yuan, Wenlei Sun, Ying Zhu

Research on Dynamic Response of Historic Timber Structure with Platform-Foundation under Metro-induced Loads

Xin Wang, Zhaobo Meng

Digital Factory for Collaborative Supply Chains

Michel Pouly, Sebastien Berthold

Large Groups Decision for the Rio 2016 Olympic Games in the MUTIRÕ Project

Sergio Palma J. Medeiros, Jano Moreira de Souza, Gustavo Carvalho, Erick Alves Rezende

Public Service Platform Supporting Collaboration of Motor Die Manufacturing

Yuming Zhu, Shikai Jing, Jihong Liu

A2: Collaboration in Manufacturing, Services, and Businesses (II)

AgendaBuilder: a System to Support Meeting Design

Adriana S. Vivacqua, Marcos S. Ferreira, Jano M. de Souza

Architecture of a Distributed Framework for a Fleet Command and Control System

Sufen Liu, Peng Xu, Xiaojun Li

A Case Study on Designing Business Processes Based on Collaborative and Mining Approaches

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

Recommender System for Contextual Advertising in IPTV Scenarios

Roberto Konow, Wayman Tan, Luis Loyola, Nelson Baloian, Javier Pereira

Collective Intelligence for the Design of Emergency Response

Adriana S. Vivacqua, Marcos R.S. Borges

Context-Aware Scheduling of Workforce for Multiple Urgent Events

Yuqing Sun, Dickson K. W. CHIU.

Multi-site Collaboration Design for Air Cargo Planning

Pearl C. C. Shum, Vincent T.Y. Ng

A3: Other Applications (I)

An Architecture-Aware Routing Optimization via Satisfiability for Hierarchical FPGA

Limin Zhu, Qiang Zhou, Yici Cai, Jinian Bian

Design Method and Finite Element Analysis on Refrigeration Scroll Compressor

Licun Wang, Lijun Song

Design of Cooperative Deployment in Distributed Honeynet System

Haifeng Wang, Qingkui Chen

Functional Reverse Design: Method and Application

Dunbing Tang, Renmiao Zhu, Ronghua Xu

Mechanism of Method Invocation and Return in Real-time Embedded Java Processor

Guang Hu, Zhilei Chai, Xindong Ye, Shiliang Tu

Digital Identity Enrolment and Assurance Support for VeryIDX

Jianming Yong, Elisa Bertino

PaperFlow/R: a Cooperative Environment for the Conception and Production of Scientific Publications

Hugo Paredes, Benjamim Fonseca

A4: Mobile Collaboration and Applications (I)

Reliability Research of Wireless Sensor Network Node

Shuxia Pan, Bingbing Ji, Yali Luan

Constraint-based Sensor Network Nodes Particle Swarm Search Localization Algorithm

Zhou Shu-wang, Wang Ying-long, Guo Qiang, Wei Nuo

R&D Process Programming for Series EGR Sensor Based on Virtual Molding and Parametric Design

Liu Tianhu, Liang Zhihui, Liang Shenbo, Qin Xinnian, Fu Ping

Designing Mobile Interaction to Elicit Alternative Solutions for Participatory Decision-making

Ana Cristina B. Garcia, Adriana S. Vivacqua, Thiago C Tavares

Design and Implementation of Multi-robot Cooperative Tracking

Li Shuqin, Zhang Le, Yuan Xiaohua

A5: Other Applications (II)

A Generative Concept Design Model Based On Parallel Evolutionary Strategy

Wenke Zang, Guangchen Wang

Organizing Public Security During International Sports Events with LaSca

Gustavo Carvalho, Sergio Palma J. Medeiros, Erick Alves Rezende, Jano Moreira de Souza

The Design of Collaboration Support between Command and Operation Teams during Emergency Response

Rodrigo Pinheiro Padilha, José Orlando Gomes, Marcos R S Borges, Jose H. Canós

A Preliminary Study on Collaborative Methods in Animation Design

Xiaopin Liu, Lin Li, Jinting Lu, Lin Du, Guangting Shen

Social Interaction Regulation in Virtual Web Environments using the Social Theatres Model

Hugo Paredes, F. Mário Martins

Structural Optimization of Honeycomb Paperboard Mould by Sensitivity Analysis

Ma Suchang, Liu Xuebin, Zhao Wei

Outage Probability Bound Analysis in Vehicle-Assisted Inter-Vehicular Communications

Zhaoxun Li, Yang Zhao, He Chen, Hanying Hu

A6: Agents and Multi-agent Systems for Cooperative Design (I)

Study on Collaborative Product Design Based on Modularity and Multi-agent

Chen Ming, Liu Jinfei, Kong Qinghua

Cluster Supply Chain Cooperation based on Multi-agent

Feipeng Huang, Xiangyang Li

The Design and Implement of Internet Intelligence Agent in Electronic Commerce Environment

Qingzhang CHEN, Xiaomei TANG, Shuojin FANG

Bidirectional Selection Cooperation Approach Based on Multi-Agent

Xuan Wang, Jing-long Yan

Real-time Task Scheduling Behavior in Agent-based Product Development Process Simulation

Xiaodong Zhang, Jianwei Wang, Le Luo, Yingzi Li

A Dynamic Critical Path Computation Algorithm for Enterprise Process Cooperative Scheduling

Fujun Yang, Wenan Tan, Weiming Shen, Hamada H. Ghenniwa, Yunjiao Xue

A7: Agents and Multi-agent Systems for Cooperative Design (II)

Application of Ontological Thought in Collaborative Product R & D Oriented to Automobile Lifecycle

Chen Ming, Liu Jinfei, Kong Qinghua, Yao Yuan

A Cooperative Design Framework Based on Multi-Agent for Aircraft Structural Parts

Hai Li, Yingguang Li, Wei Wang, Changqing Liu

The Research and Improvement on the Coordinated-Negotiation Architecture of Web Service Composition based on Agent in the Condition of Multi-Negotiation Concurrency

Bin Wu, Chaozhen Guo

An Agent-Based Architecture for Knowledge Management in Context-Aware Business Processes

Leonardo A. de C. Gatti, Flávia Maria Santoro, Vanessa T. Nunes

Modeling of Container Terminal Logistics Operation System Based on Multi-Agents

Ye Zhong, Wenfeng Li, Bin Li

Game Theoretic Approach in Multipath Routing for Tradeoff between Routing Security and Performance

Siguang Chen, Meng Wu

A8: Mobile Collaboration and Applications (II)

Based Deviation-optimal by Using Kalman Filter Algorithm in Receiver-Only Time Synchronization for Wireless Sensor Networks

Guo Wen-juan, Wang Ying-long, WeiNuo, Guo Qiang

Enhancing Mobile Collaboration with HLMP

Juan Rodriguez-Covili, Sergio F. Ochoa, José A. Pino

Dynamic Data Driven Smart Home System based on a Service Component Architecture

Chi-Chun Lo, Ding-Yuan Chen, Kuo-Ming Chao

HLMP API: A Software Library to Support the Development of Mobile Collaborative Applications

Juan Rodríguez-Covili, Sergio F. Ochoa, José A. Pino, Roc Messeguer, Esunly Medina, Dolors Royo

Mobile Multi-robots Formation Control and its Implementation

Li Shuqin, Zhao Qiwei, Yuan Xiaohua

B1: CSCWD Techniques, Methods, and Tools (I)

Transformation of Operation Commands among CAD Systems in Synchronized Collaborative Design

Wanfeng Dou, Xiaodong Song, Tao Peng

Group Animation Path Generation Based on Particle Swarm Optimisation

Hong Liu, Shijie Xu

Design and Research on GeoIP

Fang Dong, Cheng Chengqi, Guo Shide

Learning to Rank with a Weight Matrix

Zewu Peng, Yong Tang, Luxian Lin, Yan Pan

A Cooperative Method for Supervised Learning in Spiking Neural Networks

Shen Hong, Liu Ning, Li Xiaoping, Wang Qian

Load Identification in Nonintrusive Load Monitoring Using Steady-State and Turn-on Transient Energy Algorithms

Hsueh-Hsien Chang, Ching-Lung Lin, Jin-Kwei Lee

A Framework of Awareness for Collaborative e-Commerce

Qingzhang CHEN, Yan JIN, Peng WANG

B2: CSCWD Techniques, Methods, and Tools (II)

Design Evaluation by Neural Trees

Xiyu Liu, Feng Qi

A Method of Evaluating Collaboration Satisfaction Degree of NPD Team

Lv Jun, Li Ya-feng

Collaborative Quality-of-Service based Video Conferencing
Christian Spielvogel, Peter Kropf

A Framework for Privacy Policy Management in Service Aggregation
Peishun Wang, Liju Dong, Yi Mu, Willy Susilo, Jun Yany

A MVC-based Collaborative Framework Support for Test Suite
Zhenyu Liu, Ting Li, Genxing Yang

A Study and Design of Plug-in Framework Based on .NET Component Technology
Sun Yuyu, Hu Liang, Zhao Kuo

B3: CSCWD Techniques, Methods, and Tools (III)

A Conversation Model of Collaborative Pair Programming Based on Language/action Theory
Wanfeng Dou, Kui Hong, Wei He

Research on an Analysis Method for Software Trustworthiness Based on Rules
Tie Bao, Shufen Liu, Lu Han

An Inter-Block 4-Erasure-Correcting Scheme for Reliable Transmission of Large Data Blocks
Shi-Le Zhang, Wei Qin, Song-Wen Pei, Bai-Feng Wu

A Multi-User Location-Awareness System
Rahat Iqbal, Anne James, Witold Poreda, John Black

Using a Metamodel to Design Structural and Behavioral Aspects in Context-Sensitive Groupware
Vaninha Vieira, Patricia Tedesco, Ana Carolina Salgado

Shared Design Thinking Process Model for Supporting Collaborative Design
Junpeng Du, Shikai Jing, Jihong Liu

A Formalizing Hybrid Model Transformation Approach for Collaborative System
Kun Ma, Bo Yang, Haiyang Wang

B4: Knowledge Management for Cooperative Design (I)

A Study on Performance Evaluation Model of Individual Knowledge-sharing
Lijun Song, Licun Wang, Ningyu Zhao

Study of Ontology Technology in Field Word Segmentation System of Digital Library
Lizhen Liu, Chengli Wang, Lin Bai, Hai Chen

A Frame-based Ontological View Specification Language
Yunjiao Xue, Hamada H. Ghenniwa, Weiming Shen

Web Information Extraction Based on Hidden Markov Model
Jianbing Lai, Qiang Liu, Yi Liu

Applying the BPANN and the Hierarchical Ontology to Develop a Methodology for Binary Knowledge Document Classification and Content Analysis
Tzu-An Chiang, Chun-Yi Wu, Amy J. C. Trappey, Charles V. Trappey.

B5: CSCWD Techniques, Methods, and Tools (IV)

CSCW Implementation in Enterprise - The NIBBLING Method
Philippe Vigié, Pascale Zaraté, Jean-Luc Soubie

Coordination and Pressing: A Formula for Teamwork - A Case Study
Maira Marques, Sergio F. Ochoa, Alcides Quispe, Luis Silvestre, Agustin Villena

A New Collaboration Design Method Based on Dependency in Electrical Domain
Xinyin Wang, Huaiyu Wang, Quansheng Shi, Shaohua Zhang

Green Quality Function Development and Modular Design Structure Matrix in Product Development
Chung-Shing Wang, Pei-Yau Lin, Teng-Ruey Chang

A GPU-based Computing Framework for CSCW
Gang Chen, Guobo Li, Baifeng Wu, Songwen Pei

A Less Constraint Concurrency Control and Consistency Maintenance In Collaborative CAD System
HuaJun Liu, Xiaoxia Li, Fazhi He, Zhiyong Huang

Specify and Enforce the Policies of Quantified Risk Adaptive Access Control
Chen Chen, Weili Han, Jianming Yong

B6: CSCWD Techniques, Methods, and Tools (V)

Improving Requirements Engineering Processes in Very Small Software Enterprises Through the Use of a Collaborative Application
Sergio F. Ochoa, Alcides Quispe, Andrés Vergara, José A. Pino

On-demand Late Join for Collaborative Graphics Editing Systems in Ubiquitous Environment
Bo Jiang, Jiale Wang

Team Composer: Assembling Groups through Social Matching
Flavia E.O. Silva, Claudia L.R. Motta, Flávia Maria Santoro

ARARA - A Collaborative Tool for Requirement Change Awareness
Ester J. C. de Lima, José A. Rodrigues Nt., Geraldo B. Xexéo, Jano M. de Souza

A Cooperative Network Intrusion Detection Based on Heterogeneous Distance Function Clustering
Shaohua Teng, Hongle DU, Wei Zhang, Xiufen Fu, Xiacong Li

A Double Interval Centroid-Based Watermark for Network Flow Traceback
Xiaogang Wang, Junzhou Luo, Ming Yang

B7: Workflows for Cooperative Design

A Knowledge-based Adaptive Collaborative Work System Implementation Framework
Xianghui Wang, Jian Zhang, Qian Sun

Multi-granularity Business Process Descriptions and Intelligent Task Distribution
Chunsheng Hu, Chengdong Xu

SMART: A Platform for Cross-Domain Business Process Collaboration
Mao Ningning, Cui Lizhen

A Business Process Modeling Approach Based on Semantic Event-driven Process Chains
Tianyang Dong, Hongming Cai, Boyi Xu

A Process-oriented Configurable Workflow System Model for Cooperative Project Management
Yi Chen, Jile Xin

Test Coverage for Collaborative Workflow Application based on Petri Net
Zhenyu Liu, Tiejiang Liu, Lizhi Cai, Genxing Yang

B8: Knowledge Management for Cooperative Design (II)

Qualitative Analysis of a Social Knowledge Management Initiative in an Innovation Institute
Ricardo A. Costa, Silvio R. L. Meira, Paulyne M. Jucá, Rafael A. Ribeiro

Knowledge Element Relation Extraction Using Conditional Random Fields
Yingying Chen, Qinghua Zheng, Wei Wang, Yan Chen

An approach on Business Process Ontology for CSCW Using PSL
Wenan Tan, Fujun Yang, Weiming Shen

Collaborative Geo-referenced Knowledge Creation for Designing and Planning
Gustavo Zurita, Nelson Baloian

Dialog Construction in a Collaborative Project Management Environment
Milton P. Ramos, Cesar A. Tacla, Gilson, Emerson C. Paraiso, Jean-Paul A. Barthès

C1: Grids, Web services and Semantic Web for Cooperative Design (I)

A Service-Oriented Travel Portal with Semantic Package Recommender
Yinsheng Li, Mu Zhu, Han Chen, Kuo-Ming Chao

An Optimization Approach for Service Deployment in Service Oriented Clouds
Tiejian Liu, Tun Lu, Zhenyu Liu

Resource Scheduling Based on Dynamic Dependence Injection in Virtualization-based Simulation Grid
Hanbing Liu, Hongyi Su, Shouyi Zhan, Xundong Chai, Yabin Zhang, Baocun Hou, Linqin

Data Aggregation based Adaptive Long Term Load Prediction Mechanism in Grid Environment
Fang Dong, Junzhou Luo, Jinhui Zhang, Aibo Song, Jiuxin Cao

MARDO: A Novel Schema of Dynamic QoS Optimizing for Composite Web Services Using Cooperative Agents
Jia jun Wang, Jie Wu, Yu Wu, Shiyong Zhang

Novel Algorithm for Load Balancing in Cluster Systems
Wenzheng Li, Hongyu Shi

C2: Grids, Web services and Semantic Web for Cooperative Design (II)

Research on Collaborative Design Platform of Launch Vehicle Based on Desktop Grid
ZHANG Hao-long, ZHENG Hong-tao, ZHAO Wen, LIAO Xin, FEI Zhi-ting

An Extension of GridSim for Quality of Service
Reda Albodour, Anne James, Norlaily Yaacob

On the Trusted Ontology Model for Evaluating the Semantic Web Services
Ming Qu, Shufen Liu, Tie Bao

The Service-Oriented Architecture of Virtual Enterprise for Manufacturing Industry
Wei Cui, Xiangxu Meng, Shijun Liu

Applying a Model-Driven Process for a Collaborative Service-Oriented Architecture
Cristiana Pereira Bispo, Rita Suzana P. Maciel, José Maria N. David, Ítalo Ribeiro, Renato Conceição

Research on Library Management System for CDs Attached to Books Based on Cloud Computing
Honghai Kan, Zhimin Yang, Yue Wang, Nana Qi

C3: Grids, Web services and Semantic Web for Cooperative Design (III)

A Collaborative Trust Model of Firewall-through based on Cloud Computing
Zhimin Yang, Lixiang Qiao, Chang Liu, Chi Yang, Guangming Wan

A Lightweight Semantic Framework Towards Collaborative Development and Integration of Enterprise Applications
Yi Jiao, Lin Li, Nanrong Ye

SOA-based Method for Cooperative Tasks Distribution in Large-scale Optimization Environments
Qiuxiang Cui, Xia Zhu, Yi Zhang, Xiaoping Li

Semantic-based Self-organising Mechanism for Service Registry and Discovery
Jiuxin Cao, Yi Yao, Xiao Zheng, Bo Liu

An Impact Analysis Model For Distributed Web Service Proces
Mi Wang, Lizhen Cui

C4: Distance Learning / E-Learning (I)

The Study of Collaborative Learning Grouping Strategy in Intelligent Tutoring System

Lizhen Liu, Lei Chen, Cuixia Shi, Hai Chen

A Study on Academic Performance and Interpersonal Interactions Based on Network

Jianhua Han, Jikui Wen, Xiaojun Zhao

Research on Network Learning Behavior Evaluation Model

Suxian Lin, WenAn Tan, Junfeng Song

A Method for Large Cross-Language Lexicon Management Based on Collaborative Work of Hash Family and Double-Array Trie

Zheng Cheng, Zheng Qinghua, Zhou Zheng, Tian Feng

Mining Patterns of e-Learner Emotion Communication in Turn Level of Chinese Interactive Texts: Experiments and Findings

Feng Tian, Qinghua Zheng, Deli Zheng

C5: Practice and Experience with Collaborative Systems (I)

Research and Application of Conflict Detection Technology in Machinery Collaborative Design

Hanmei Chen, Yinzhang Guo

Layered Document Model Transformation and Operation Adaptation of Two Dimensional CAD Environments

Liping Gao, Tun Lu

Application of Collaborative Simulation Based on Interfaces for Dynamic Properties of an Engine's Mechanical System

Wenjie Qin, Zhihui Li, Xiongjiang Zhou

Implementation of Collaborative Design System upon Heterogeneous CAD Systems Using a Feature-based Mapping Set

Xiaodong Song, Wanfeng Dou, Jun Zhu

Multi-layers Process Modeling for Complex Machinery Products Collaborative Design

Yin-zhang GUO, Jian-chao ZENG

CAD Software Development for Planet Carrier Design

Sizhu Zhou, Ming Chen, Jian Hua, Huabin Jin and Chao Li

Information Integration and E-Commerce System Construction for Taiwan Traditional Industrial Production

Ping-Hong Kuom, Yao-Tsung Ko, Hui-Shan Huang

C6: Practice and Experience with Collaborative Systems (II)

A Hierarchical Hybrid Strategy for Reliability Analysis of Multidisciplinary Design Optimization

Liansheng Li, Shikai Jing, Jihong Liuc

Research of Configuration Management In Complex Equipment Collaborative R&D

TANG Dingyong, CHENG Zheng, XIE Dongmei, TAO Yizhen

The Strategies of New Product Design System for Small Series Production

Chen-Fang Tsai, Anne James, Weidong Li

An Effective Interaction Control Mechanism with Minor Step for Multidisciplinary Collaborative Simulation System

Heming Zhang, Pengfei Cui, Hongwei Wang

Collaborative 3D CAD System for Multiple User Design

Lianguan Shen, Heng Liu, Mujun Li, Yu Hao, Meiyang Wang, Jian Li, JinJin Zheng

Retrieval and Reconstruction of Heterogeneous Feature Data for Collaborative Design

Xiaoxia Li, Fazhi He, Xiantao Cai, Zhiyong Huang

C7: VR Technologies for Cooperative Design

Virtual Robot Program Development for Assembly Processes using Rigid-Body Simulation

Mario Rossdeutscher, Michael Zuern, Ulrich Berger

VRML Based Collaborative CAM Simulation Environment

Ziqiang Zhou, Yi Pan, Lie Ma, Liguang Shen, Wei Zhao

Construction of Virtual Experiment Platform for Research about Vehicle Driving Control at Energy-saving

Yin Niandong, Xia Ping, Tao Jing

Effects of Information Exchange Channels in Different Communication Modes on Trust Building in Computer-mediated Remote Collaborative Design

Lu Wang, Xiangyu Wang

Virtual Reality in the Substation Training Simulator

Wang Wenju, Li Guangyao

C8: Distance Learning / E-Learning (II)

A Motivation Booster Proposal based on the Monitoring of users' Progress in CSCL environments.

Leovy Echeverría, Ruth Cobos

Learning with Patterns: an Effective Way to Implement Computer Supported Pervasive Learning

Nelson Baloian, José A. Pino, Gabriel Peña, Gustavo Zurita

Augmenting Teamwork Skills Through Web3D Technologies in Software Engineering Course

LieHuo Chen, Qiang Liu, XiaoGuang Sun

Designing Training Content through Group Storytelling

Ricardo Tulio Gandelman, Flávia Maria Santoro

Promoting learning through Social Networks Supported by a Matching System Model

Soraia P.A. Silva, Claudia L.R.Motta, Carlo E.T. Oliveira