CSCWD 2011 Technical Program
June 8-10, 2011, Lausanne, Switzerland

Tuesday, June 7, 2011

18:00 - 20:00	Registration
18:00 - 20:00	Welcome reception

Wednesday, June 8, 2011

07:30 - 18:30	Registration		
08:30 - 09:00	Opening Plenary		
09:00 – 10:00	Keynote Speech by Jean-Paul Barthès: From Computer-Aided Drafting to Knowledge Supported Cooperative Design		
10:00 – 10:20	Coffee/Tea Break		
10:20 – 12:00	Session A1: 5 papers	Session B1: 5 papers	Session C1: ISMICK-1
12:00 – 13:30	Lunch		
13:30 – 15:30	Session A2: 6 papers	Session B2: 6 papers	Session C2: ISMICK-2
15:30 – 15:50	Coffee/Tea Break		
15:50 – 18:00	Session A3: 6 papers	Session B3: 7 papers	Session C3: ISMICK-3
18:00 – 22:00	IEEE SMC CSCWD TC & CSCWD Steering Committee Meeting		

Thursday, June 9, 2011

08:30 - 09:30	Keynote Speech by Jean-Louis Ligier: Cooperation and cooperative design for a new automotive engine in the Renault Group		
09:30 – 10:00	Coffee/Tea Break		
10:00 – 12:00	Session A4: 6 papers	Session B4: 6 papers	Session C4: ISMICK-4
12:00 – 13:30	Lunch		
13:30 – 15:30	Session A5: 6 papers	Session B5: 6 papers	Session C5: 6 papers
15:30 – 15:50	Coffee/Tea Break		
15:50 – 18:00	Session A6: 7 papers	Session B6: 7 papers	Session C6: 6 papers
18:00 – 22:00	Social event and Conference Dinner		

Friday, June 10, 2011

08:30 - 09:30	Keynote Speech by Naoufel Cheikrouhou: Human and Judgemental Factors in Collaborative Demand Forecasting		
09:30 – 10:00	Coffee/Tea Break		
10:00 – 12:00	Session A7: 6 papers	Session B7: 6 papers	Session C7: 6 papers
12:00 – 12:30	Best Paper Awards and Closing Ceremony		
12:30 – 14:00	Lunch		

A1: Techniques, methods, and tools for CSCW in design (1)

1 Development of a Face-to-Face Meeting Capture and Indexing Tool
Barry Andrew Piorkowski, Richard David Evans, James Xiaoyu Gao

8 An Automatic Method of Data Warehouses Multi-dimension Modeling for Distributed Information Systems
Lihong Jiang, Junliang Xu, Boyi Xu, Hongming Cai

13 Contextualizing Scientific Workflow in Cooperative Design
Xiaoliang Fan, Ruisheng Zhang, Patrick Brézillon

15 A Method for One-Dimensional Topological Entity Matching in Integration of Heterogeneous CAD Systems
Xiaoxia Li, Fazhi He, Xiantao Cai, Bo Ni

22 The Integration Method Research of MSL and Collaborative Simulation Platform
Ming Li, Xiyou Su, Heming Zhang

A2: Techniques, methods, and tools for CSCW in design (2)

23 Procedure Contextualization Based on Collaborative Database Administration
Hassane Tahir, Patrick Brézillon

27 Greedy Feature Selection for Ranking
Han Jiang Lai, Yong Tang, Hai Xia Luo, Yan Pan

31 Tele-Board: Enabling Efficient Collaboration in Digital Design Spaces
Raja Gumienny, Lutz Gericke, Matthias Quasthoff, Christian Willems, Christoph Meinel

33 Instruction-level Hardware/Software Partition through DFG Exploration
Kang Zhao, Jinian Bian

44 The Complexity of a Data Privacy Protection Algorithm
Shih-Ying Hsu, Ruizhong Wei

48 Resilient Workflows for Cooperative Design
Toan Nguyen, Laurentiu Trifan, Jean-Antoine Desideri

A3: Techniques, methods, and tools for CSCW in design (3)

55 A Framework to Report and to Analyse a Debate
Thomas Polacsek, Laurence Cholvy

59 A Fast Recursive Detailed Routing Algorithm for Hierarchical FPGAs
Limin Zhu, Jinian Bian, Qiang Zhou, Yici Cai

79 Dynamic Process Adaptation: A Context-aware Approach
Vanessa Nunes, Claudia Werner, Flavia Santoro

80 A Roadmap to the Collaboration Maturity Model (CollabMM) Evolution
Andrea Magdaleno, Renata Araujo, Cláudia Werner

87 A Semi-Automatic Source Code Documentation Method for Small Software Development Teams
Julio Zanoni, Milton Ramos, Cesar A. Tacla, Gilson Sato, Emerson Paraiso

88 Tool-paths Optimization of Rapid Prototyping to Support Product Verification and Collaboration
Guoqing Jin, Weidong Li, Liang Gao

A4: Techniques, methods, and tools for CSCW in design (4)

97 State Transition-Based for Cooperative Shot Boundary Detection
Wei Zhang, Shaohua Teng, Xiufen Fu

102 A General User Defined Negotiation Application based AuTrA System for Computer Supported Collaboration Work
Rose Neugebauer, Anne James, Rahat Iqbal

115 Project Management System Review and Redesign Using User-Centred Design Methodology
Rahat Iqbal, Richard Rider, Nazaraf Shah, Anne James

116 Collaborative Design of Computer Network Using Activity-Led Learning Approach
Robert Bird, Rahat Iqbal, Margarida Romero, Anne James

123 The TATIN-PIC Project: A Multi-modal Collaborative Work Environment for Preliminary Design
Alistair Jones, Atman Kendira, Dominique Lenne, Thierry Gidel, Claude Moulin

128 Path Planning for Privacy Preserving in Location Based Service
Guangjun Ji, Yuqing Sun, Xiaojun Ma

A5: Collaboration in Manufacturing, Services, and Businesses (1)

24 Research and Implementation on Visualization System of Disassembly Sequence Planning Based on Ant Colony Algorithm
Xiaozhen Mi, Xiaoyang Zhen, Shaoze Zhou, Wenhui Fan

35 RFID Applications in Automotive Assembly Line Equipped with Friction Drive Conveyors
Dunbing Tang, Renmiao Zhu, Wenbin Gu, Kun Zheng

36 A Feature-Based NC Machining Time Forecasting Model
Changqing Liu, Yingguang Li, Wei Wang, Weiming Shen

63 Issues and Characteristics of Testing as Part of the Design Process in Mechanical Engineering
Philipp Janowski, Bernhard Mitschang, Andreas Gollmann

133 Competence-based Cooperative Framework for Iterative Decisions in the Aircraft Design Process
Mihaela Brut, Jean-Luc Soubie, Florence Sèdes

86 A Variable-Step Numerical Method for Collaborative Computation of Two Coupling Models in Multidisciplinary Engineering Systems
Heming Zhang, Pengfei Cui, Chun Zhang, Hongwei Wang

A6: Collaboration in Manufacturing, Services, and Businesses (2)

92 The Novel Design Policies for Green Production
Chen-Fang Tsai, Weidong Li, Kuo-Ming Chao

101 Event-driven Business Process Management in Engineer-to-Order Supply Chains
Jorge MInguez, Sema Zor, Peter Reimann

140 Development of an Information Model for Multi-domain Virtual Enterprise
Wei Cui, Xianghui Wang

138 Towards an Agent Oriented Smart Manufacturing System
Wafa Ghonaim, Hamada Ghenniwa, Weiming Shen

26 Collaborative Decision Making: an Approach Evaluation through Two Cases Study
Jacqueline Konate, Pascale Zaraté

43 Integration of Indoor Localization with Facility Maintenance Management
Hongbo Sun, Henry Xue, Weiming Shen, Qi Hao, Tianyuan Xiao

81 Facilitating Collaborative Scenario Creation to Support Emergency Plan Generation
Bruno B. Lage, Marcos R.S. Borges, José H. Canos, Adriana S. Vivacqua

A7: Collaboration in Manufacturing, Services, and Businesses (3)

106 Resilient Control of a Decision Support System for Emergency Simulations at Nuclear Power Plants
Fernanda Bruno, Ana Carolina Assaife, Marcos R.S. Borges, José Orlando Gomes, Paulo V.R. Carvalho

83 Digital Tabletops for Situational Awareness in Emergency Situations
Andre Engelbrecht, Marcos R.S. Borges, Adriana S. Vivacqua

109 Increasing the Shared Information Availability during Urban Emergencies Responses
Alvaro Monares, Valeria Herskovic, Manuel Ibarra, David Suarez, Sergio F. Ochoa, José A. Pino

114 Adaptative Image Flow in Collaborative Medical Telediagnosis Environments
Jean-Baptiste Aupet, Rami Kassab, Jean-Christophe Lapayre, Franck Marzani

122 Intelligent Interactive System for Collaborative Green Computing
Kuo-Ming Chao, Nazaraf Shah, Adriana Matei, Tomasz Zlamaniec, Weidong Li, Chi-Chun Lo, Yinsheng Li

129 Optimization Design for Petroleum High Pressure Wellhead Gate Valve Stem Based on MATLAB
Sizhu Zhou, Li Chao

B1: Mobile Collaboration and Applications

46 Mobile Agent Based Web Service Integration Framework
Ye Zhong, Wenfeng Li, Xun Wang

56 Sketchs Characterization and Compression for Nomadic Computing
Nelson Baloian, Javier Bustos, Ramon Cruzat, Richard Ibarra

103 Characterizing the Effects of Sharing Hardware Resources in Mobile Collaboration Scenarios
Davide Vega, Esunly Medina, Roc Messeguer, Dolors Royo, Felix Freitag, Sergio F. Ochoa, José A. Pino

111 A Collaborative Mobile Approach for Business Process Elicitation
Nelson Baloian, Jose A. Pino, Flavia Santoro, Gustavo Zurita, Renata Araujo, Sean Siqueira, Douglas M. Silva

99 Collaborative Smart Home Technologies for Senior Independent Living: A Review
 Mert Bal, Weiming Shen, Qi Hao, Henry Xue

B2: Practice and Experience with Collaborative Systems

21 Analyzing the Support for Large Group Collaborations using Google Maps
 Pedro Antunes, Antonio Ferreira, Gustavo Zurita, Nelson Baloian

75 Using Activity Theory to Develop Requirements Analysis Framework for Collaborative Working Environments
 Ince T Wangsa, Lorna Uden, Stella F Mills

85 Use of Linked Data in the Design of Information Infrastructure for Collaborative Emergency Management Systems
 Kelli F. Cordeiro, Tiago Marino, Maria Luiza M. Campos, Marcos R.S. Borges

104 Towards an Optimal Driving Trains in Single Line Using Crossing Loops
 Osmar Betazzi Dordal, André Pinz Borges, Richardson Ribeiro, Fabrício Enembreck, Edson E. Scalabrin, Bráulio Ávila

126 The Analysis of Logistics Model in Special Economic and Trade Zones for Manufacturing and Exporting Large Engineering Assets
 Amy Trappey, Gilbert Lin, Wang-Tsang Lee, I-Shinn Tien, Wythe Lin, Ta-Hui Yang

71 An Exploratory Study of the Effects of Rationale Awareness in Project-based Group Activity
 Lu Xiao

B3: Distance Learning / Training Related to Design

10 e-Learning Oriented Emotion Regulation Mechanism and Strategies in Interactive Text Applications
 Feng Tian, Baicheng An, Deli Zheng, Jiwei Qin, Qinghua Zheng, Yang Yang

65 Helping Physical Task Learning by Automatic Adjustment of a Virtual Teacher's Orientation Angle
 Mamoun Nawahdah, Tomoo Inoue

89 Thinking Style and Collaborative Design Learning: an Empirical Investigation
 Antonio P. Volpentesta, Salvatore Ammirato, Francesco Sofo

93 Impacts on Attention with Computer-Supported Learning Devices
 Lai-Chung Lee, Whei-Jane Wei

28 Automatic Term Extraction from Chinese Scientific Texts
 Qinghua Zheng, Junying Luo, Jun Liu

139 Enhanced M-Learning with Cloud Computing: the Bangladesh Case
 Md. Anwar Hossain Masud, Xiaodi Huang, Jianming Yong

76 Knowledge Discovery Applied in Modal Rail
André Pinz Borges, Jones Granatyr, Osmar Betazzi Dordal, Richardson Ribeiro, Bráulio Coelho Ávila, Fabrício Enembreck, Edson E. Scalabrin

B4: Collaborative Networks, Social Networks, and Applications (1)

3 Modeling Competences in Service-Oriented Virtual Organization Breeding Environments
 Zbigniew Paszkiewicz and Willy Picard

12 CSCW-based Electromagnetic Prediction and Analysis of Railway Traction Converter
Jinsong Kang, Dong Sun, Yan Ding, Chenbo Zhou

45 Autonomic Analysis of Social Networks
Ricardo Silva, Jano M. de Souza, Jonice Oliveira

78 Evaluating Knowledge Flow in Multirelational Scientific Social Networks
Victor Ströele, Geraldo Zimbrão, Jano M. de Souza

68 SLMeetingRoom: A Model of Environment to Remote Support Meetings, Oriented Tasks with Small Groups for Second Life
Cintia Silva, Ana Cristina Garcia, Joel Rosa

74 An Integrated Multi-channel Messaging Model Supporting for Business Collaboration
Fuhou Liang, Shijun Liu, Xiangxu Meng, Chengwei Yang

B5: Collaborative Networks, Social Networks, and Applications (2)

82 Social Networks and Emergency: from Society to the Command Room
Carlos B. Quintanilha, Marcos R.S. Borges, Adriana S. Vivacqua

108 Support for Collaborative Development of a Customer Solution in Railway Transport
Diana Penciuc, Marie-Hélène Abel, Didier Van Den Abeele

113 A Timing Mangement Banner for Supporting Group Decision Making
Guy Camilleri, Pascale Zaraté, Philippe Viguié

118 #twintera!: A social matching environment based on microblogging
Samantha Vrabl, Jonice Oliveira, Claudia L.R. Motta

119 Using Social Networks Analysis for Collaboration and Team Formation Identification
Rafael Monclar, Jonice Oliveira, Fabricio Firmino, Lucas Ventura, Jano de Souza, Maria Luiza Campos

136 Constructing Robust Digital Identity Infrastructure for Future Networked Society
Jianming Yong, Sanjib Tiwari, Xiaodi Huang, Qun Jin

B6: Knowledge Management in Cooperative Design

100 The Use of Well-founded Argumentation on the Conceptual Modeling of Collaborative Ontology Development
Josiane M.H. Dall'Agnol, Cesar A. Tacla, Ademir R. Freddo, Alberto H. Molinari, Emerson C. Paraíso

6 A Light Weight Approach for Ontology Generation and Change Synchronization between Ontologies and Source Relational Databases
Waqas Ahmed, Muhammad Ahtisham Aslam, Jun Shen, Jianming Yong

38 Supporting Experimental Collaborative Systems Evaluation
Claudio Sapateiro, Pedro Antunes, Jose Pino

53 Noctua: a Tool for Knowledge Acquisition and Collaborative Knowledge Construction with a Virtual Catalyst
Geraldo Boz Jr, Milton Ramos, Gilson Sato, Julio Nievola, Emerson Paraiso

54 Computer Supported Evaluation in Cooperative Spoken Dialog Systems' Design Projects
Marianne Laurent

14 A Machine-Machine Collaboration Formalism based on Web Services for Groupware Tailorability
Nader Cheaib, Samir Otmane, Malik Mallem

130 Bringing Knowledge into Recommendation Systems
Luiz F. C. Tomaz, José A. Rodrigues Nt, Jano M. Souza, Geraldo B. Xexéo

B7: User Modelling and Evolutional Computing

34 Concept for SOM-based Computer Supported Cooperative Work
Xingguang Fu, Dirk Söffker

95 Modeling on the Process of Cooperative Discussional Problem Solving Based on Extended Mind Map
Xiaoping Liu, Xin Chen, Dan Li, Guanting Shen

2 Spiking DNA Neural Trees with Applications to Conceptual Design
Xiyu Liu, Hongyan Zhang

4 An Effective Multi-swarm Collaborative Evolutionary Algorithm for Flexible Job Shop Scheduling Problem
Xinyu Li, Liang Gao, Liping Zhang, Weidong Li

5 An Evolutionary Algorithm for No-Wait Flowshop Problems with Flowtime Minimization
Xia Zhu, Xiaoping Li, Qian Wang

25 Application of Gene Expression Programming on Dynamic Job Shop Scheduling Problem
Li Nie, Liang Gao, Peigen Li, Liping Zhang

C1: International Symposium on the Management of Industrial and Corporate Knowledge (ISMICK-1)

I3 Knowledge Management for a LAN Design and Operations using Multi-Agent Systems
Shigeru Fujita, Kenji Sugawara

I6 Technical Documents Classification
Samaneh Chagheri, Catherine Roussey, Sylvie Calabretto, Cyril Dumoulin

I7 How can Knowledge Management Improve the Tendering Process in Railway Transport
Diana Penciuc, Marie-Hélène Abel, Didier Van Den Abeele

C2: International Symposium on the Management of Industrial and Corporate Knowledge (ISMICK-2)

I1 Explaining for Sharing Context in Communities
Patrick Brézillon

I4 What's at STEAK? Exploring Engineering Methodologies to Identify Existing Generational Boundaries Impeding the Strategic Transfer of Engineering and Architectural Knowledge (STEAK)
Santia Davis, Shahram Sarkani, Thomas Mazzuchi

I9 Cross-cultural Communication Challenges within International Transfer of Aircraft Production
Anna Malm, Mats Björkman, Kerstin Johansen

I10 The Use of Multi-Actor Systems for Studying Social Sustainability: Theoretical Backgrounds and Pseudo-specifications
Niels R. Faber, René Jorna

C3: International Symposium on the Management of Industrial and Corporate Knowledge (ISMICK-3)

I12 A MAS Supporting Intercultural Knowledge Management
Omar González, Jean-Paul Barthès, Félix Ramos

I13 Taking into Account Emotions in Mixed Human/Agent Systems for Improving Collaborative Work
Margaux Lhommet, Domitile Lourdeaux

61 Ontology Maintenance in a Hierarchical Federated Collaborative Product Development Environment
 Hongbo Sun, Wenhui Fan, Weiming Shen, Tianyuan Xiao, Xin Chen

98 Ontoogle: Enhancing Retrieval with Ontologies and Facets
 Sírius Thadeu, Samuel Apolonio, Adriana Vivacqua, Jonice Oliveira

135 Multi-Dimension Semantic Dictionary for Online Intelligence
 Yinsheng Li, Yi Liao, Anting Zhang, Yueting Chai

C4: International Symposium on the Management of Industrial and Corporate Knowledge (ISMICK-4)

10:00 – 11:00

I2 TWA: An Experimental Approach for Studying Knowledge Sharing in Multicultural Cooperation
Jean-Paul Barthes, Omar Gonzalez, Milton Ramos, Kenji Sugawara

I8 Interaction Zone between an Office Worker and a Personal Assistant
Kenji Sugawara, Yusuke Manabe, Shigeru Fujita, Salem Ben Yaala

11:00 – 12:00

ISMICK Panel: Technologies of Web 2.0 and applications to Knowledge Management
Moderator: Peter Kropf

C5: Grids, Web services, Semantic Web, Cloud Computing for Cooperative Design (1)

7 DeDu: Building a Deduplication Storage System over Cloud Computing
 Zhe Sun, Jun Shen, Jianming Yong

51 A Web Services based Distributed Multidisciplinary Design Optimization Framework to Ship
 Ling Kuang, Ping Jiang, Xinyu Shao

58 Service Cooperation in PaaS Platform Based on Planning Method
 Lizhen Cui, Junjie Tian, Haiyang Wang, Qingzhong Li

66 Locale Similarity Semantic Search in Large Groups Decision: MUTIRÕ project for the Rio 2016 Olympic Games
 Sergio Palma J. Medeiros, Jano M. de Souza, Gustavo Carvalho, Ester J.C. de Lima

70 Towards a Lightweight SOA Framework for Enterprise Cloud Computing
 Yi Jiao, Lin Li, Nanrong Ye

72 A Charging Model and Algorithm for Consultation based Service Application Pattern
Li Bai, Min Liu

C6: Grids, Web services, Semantic Web, Cloud Computing for Cooperative Design (2)

90 Load-aware based Adaptive Rescheduling Mechanism for Workflow Application
Fang Dong, Junzhou Luo, Aibo Song, Jiuxin Cao

91 Service Deployment Optimization Oriented Collaborative Dynamic Double Buffer Pool in Clouds
Wei Wang, Tun Lu, Tiejiang Liu, Qi Wang, Ning Gu

96 Explicit User Profiles in Web Search Personalisation
Mandeep Pannu, Rachid Anane, Michael Odetayo, Anne James

110 Supporting Semantic Interoperability in a Middleware Infrastructure for the Development of Collaborative Services
Thiago R. De Almeida, José Maria David, Rita Suzana Maciel

125 Scheduling Mixed-parallel Application onto Multi-cluster Grid with Background Workloads
Jinghui Zhang, Junzhou Luo

64 Agent Oriented Media Recommender System utilizing Smart Multimedia
Sherif Moursi, Mohamed F. Elsakhawy, Hamada Ghenniwa

C7: Agents and Multi-Agent Systems for Cooperative Design

29 A Role Modelling Approach for Crowd Animation in a Multi-Agent Cooperative System
Hong Liu, Hanchao Yu, Yuanyuan Li, Yuling Sun

112 A Fuzzy Group Decision Making Process in a Multi-agent Negotiation Environment
Fahmida Abedin, Kuo-Ming Chao, Nick Godwin

124 Mulit-Agent System for Shipper's Truck Freight Collaboration
Pearl Shum, Vincent Ng

127 Arbitration Strategy Analysis of Resource Conflict in Collaborative Product Development Process Using Agent-based Simulation
Yingzi Li, Xiaodong Zhang, Shuo Zhang

134 Design Assistant Agents for Supporting Requirement Specification Definition in a Distributed Design Team
Kenji Sugawara, Yusuke Manabe, Claude Moulin, Jean-Paul Barthès

137 Agent based Facilitator Assistant for Virtual Meetings
Phil Thompson, Anne James, Rahat Iqbal