

CSCWD 2014 Final Technical Program

May 21-23, 2014, National Tsing Hua University, Hsinchu, Taiwan

Tuesday May 20, 2014 (R106, Engineering Building I)

13:00 – 15:00	Pre-conference Workshop/Tutorial Speech 1 by Professor Jean-Paul Barthès
15:15 – 17:15	Pre-conference Workshop/Tutorial Speech 2 by Professor Weiming Shen
17:15 – 20:00	Registration & Reception

Wednesday May 21, 2014 (R106, R107, R804 and R901, Engineering Building I)

07:30 – 17:30	Registration		
08:30 – 09:00	Opening Plenary		
09:00 – 10:00	Keynote Speech 1 by Professor Debasish (Deba) Dutta (R107)		
10:00 – 10:20	Coffee/Tea Break		
10:20 – 12:00	Session A1 (R106)	Session B1 (R107)	Session C1 (R901)
12:00 – 13:00	Lunch (R102, R103 and R104)		
13:00 – 15:00	Session A2 (R106)	Session B2 (R107)	Session C2 (R901)
15:00 – 15:20	Coffee/Tea Break		
15:20 – 17:20	Session A3 (R106)	Session B3 (R107)	Session C3 (R901)
18:00 – 21:00	IEEE SMC CSCWD TC & CSCWD Steering Committee Meeting (R804)		

Thursday May 22, 2014 (R102, R106, R107, R827 and R901, Engineering Building I)

08:30 – 09:30	Keynote Speech 2 by Professor Chen Chun-Hsien (R107)		
09:30 – 10:00	Coffee/Tea Break		
10:00 – 12:00	Session A4 (R106)	Session B4 (R107)	Session C4 (R901)
12:00 – 13:00	Lunch (R102, R103 and R104)		
13:00 – 15:00	Session A5 (R106)	Session B5 (R107)	Session C5 (R901)
15:00 – 15:20	Coffee/Tea Break		
15:20 – 17:20	Session A6 (R106)	Session B6 (R102)	Session C6 (R901)
19:00 – 22:00	Conference Banquet (Special Mini Live Performance)		

13:00 – 15:00	Special Invited Sessions D5 (R827): Cloud Services for E-learning in Mechatronic by Prof. Anne James and Prof. Kuo-Ming Chao
15:20 – 17:20	Special Invited Sessions D6 (R107): Special Invited Industrial/Academic Forum on Additive Manufacturing and 3D Printing

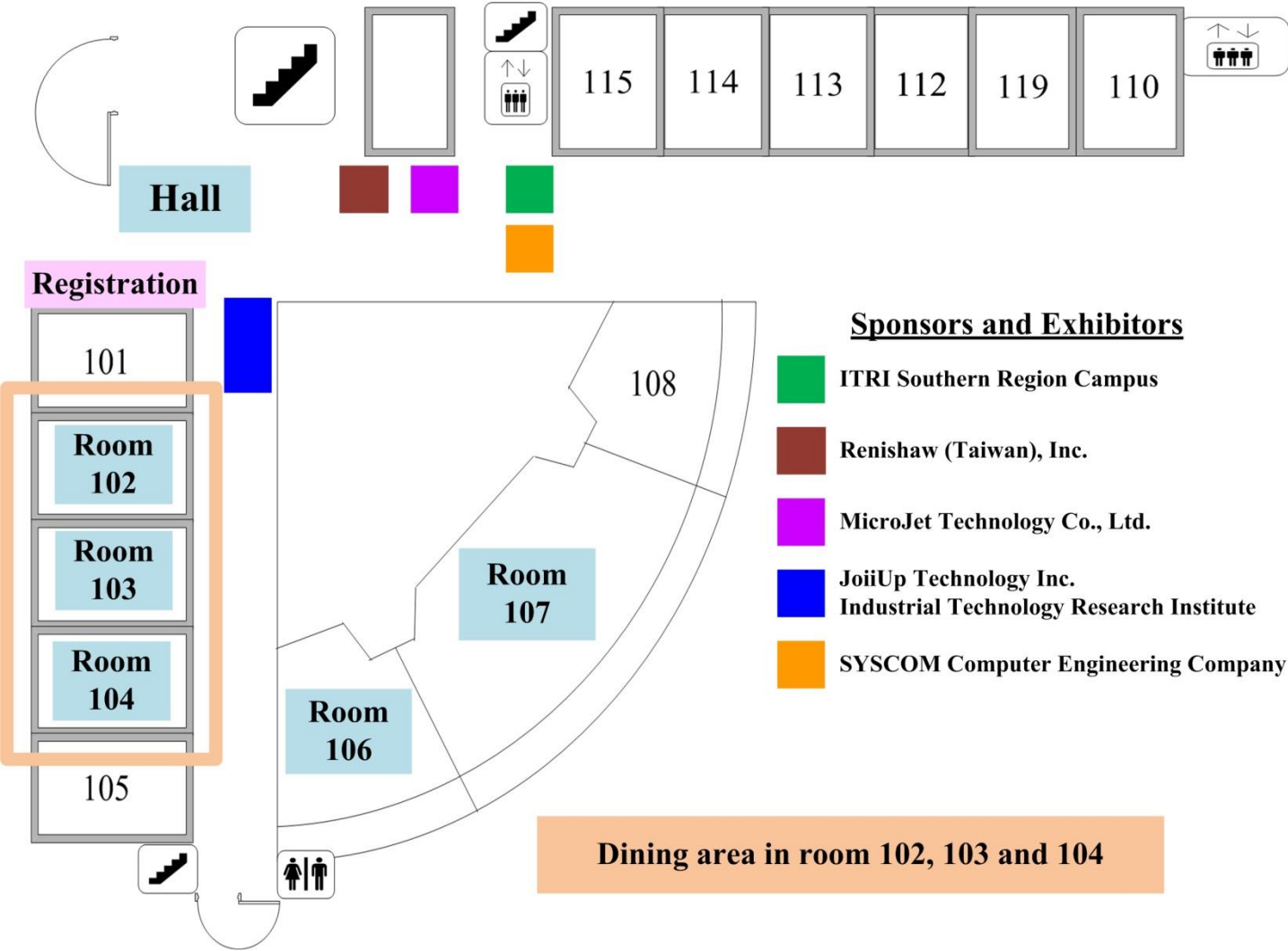
Friday May 23, 2014
(R106, R107 and R901, Engineering Building I)

08:30 – 09:30	Keynote Speech 3 by Professor Weijia Jia (R107)		
09:30 – 10:00	Coffee/Tea Break		
10:00 – 11:40	Session A7 (R106)	Session B7 (R107)	Session C7 (R901)
11:40 – 12:00	Best Paper Awards and Closing Ceremony (R107)		
12:00 – 13:00	Lunch (R102, R103 and R104)		
13:00 – 16:00	Hsinchu Science Park and Taiwan Pavilion Expo Visit		

Saturday May 24, 2014

Pre-arranged Optional Tour (Yi-Lan Traditional Cultural Tour)	
06:30 – 07:00	Depart from Hsinchu (National Tsing Hua University)
09:30 – 11:30	Lanyang Museum
12:00 – 13:00	Local Cuisine
13:30 – 15:30	National Center for Traditional Arts Center
16:00 – 17:30	Luodong Forest District Office
18:00 – 19:30	Local Cuisine
19:30 –	Back to Hsinchu (National Tsing Hua University)

Engineering Building I-1F

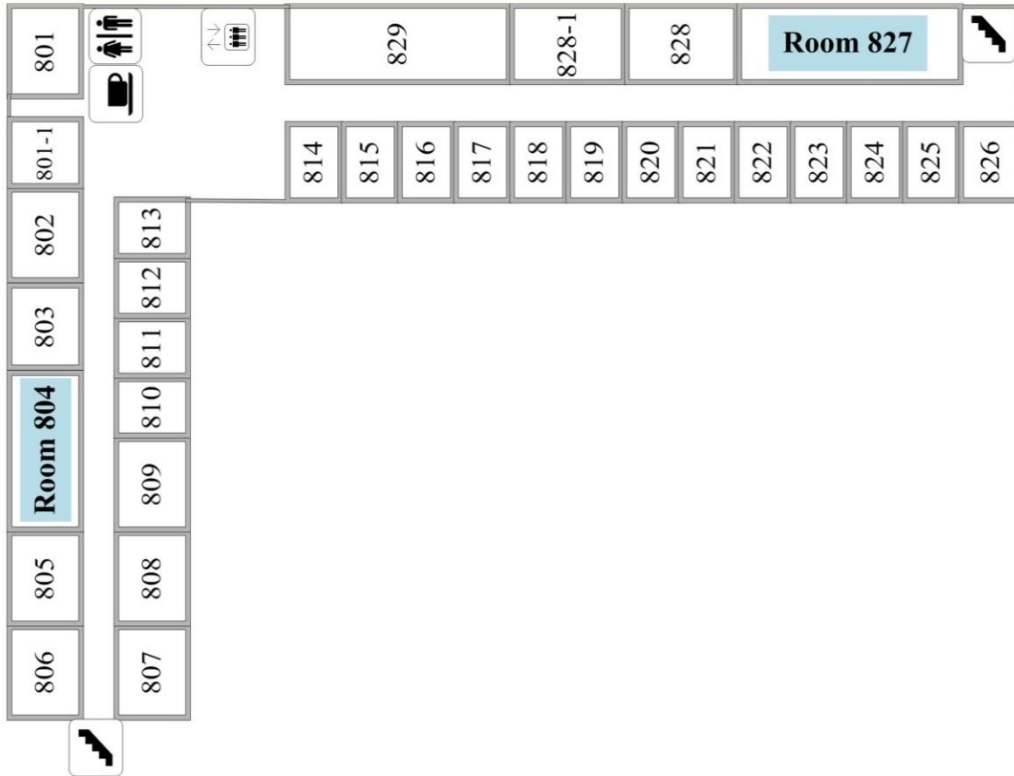


Sponsors and Exhibitors

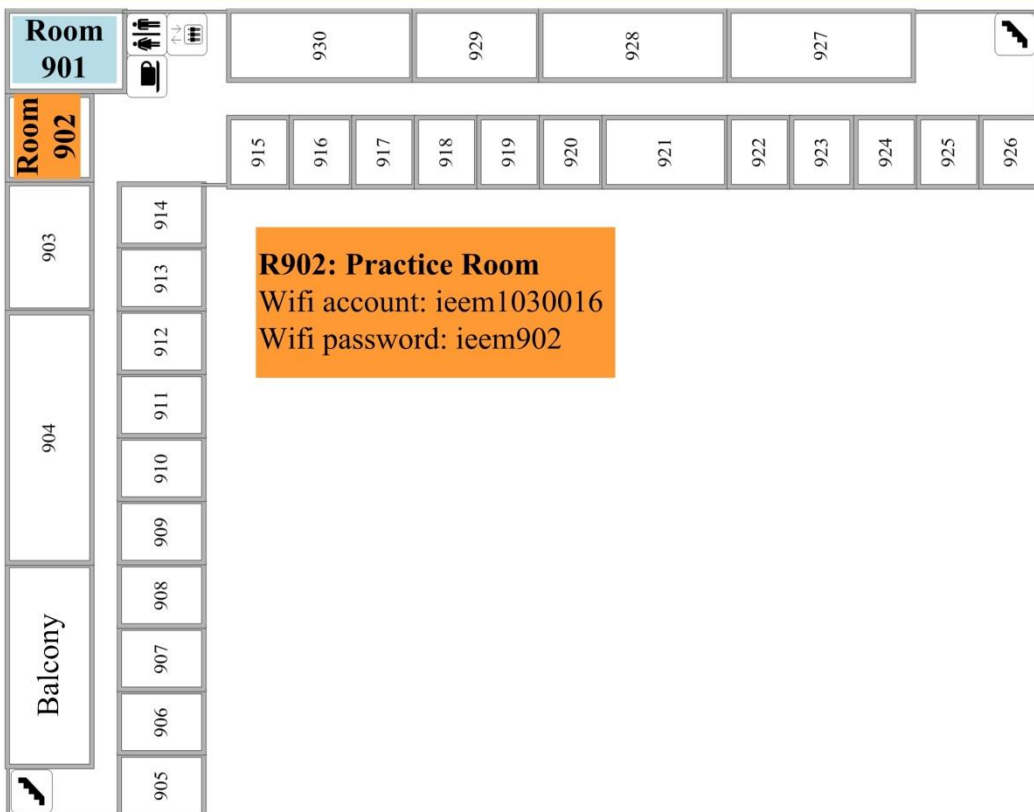
- ITRI Southern Region Campus
- Renishaw (Taiwan), Inc.
- MicroJet Technology Co., Ltd.
- JooiUp Technology Inc.
Industrial Technology Research Institute
- SYSCOM Computer Engineering Company

Dining area in room 102, 103 and 104

Engineering Building I-8F



Engineering Building I-9F



A1: Collaboration Technology Applications in Logistics and Transportation.
Chairs: Weidong Li / Yun Yang

- 9 Bingli Yan and Qiang Zhou. An Artificial Intelligence Approach to Calculate the Capacity of Bulk Cargo Terminal
- 57 Wen-Jing Guo, Wenfeng Li, Ye Zhong and Yunrui Li. A Collaborative Production Model for Products with Components of Different Colors
- 64 Yongle He, Weidong Miao, Rong Xie and Yan-Jun Shi. A Tabu Search Algorithm with Variability Cluster Grouping for Muti-Depot Vehicle Routing Problem
- 71 Cancan Zhao and Junjiang Qiu. Agent-Based Simulation for Order Selection Strategy in Collaboration Process of Supply Chain
- 76 André Pinz Borges, Osmar Dordal, Denise M. V. Sato, Fabrício Enembreck, Bráulio Ávila, Edson E. Scalabrin and Richardson Ribeiro. A Multi-Layer Architecture Proposal for Conducting Trains Employing CBR
- 88 Rongbin Xu, Xiao Liu, Ying Xie, Futian Wang, Cheng Zhang and Yun Yang. Logistics Scheduling Based on Cloud Business Workflows
- 111 Guoqing Jin, Weidong Li, Sheng Wang and Xin Lu. Solution Space Generation for Disassembly Research on Liquid Crystal Displays Televisions

A2: Collaboration Platforms, Software Tools, and Services (I). Chairs: Anne James / Wenan Tan

- 2 Fei Mu, Mingxia Wu, Yi Yang, Gang Yang and Deqiang Yin. Structure Optimization and Casting Simulation of Engine Trestle Based on CAE Technology
- 26 Qiang Lu, Xiang-Yuan Zhu, Li Liu and Shu-Bo Cao. An Effective Demonstration for Group Collaboration Based on Storyline Visualization Technology
- 43 Frâncila Neiva, José Maria David, Rita Suzana Maciel, Regina Braga and Fernanda Campos. SISS: Extending Semantic Interoperability to Support Collaborative System Development and Execution
- 55 Carlos Eduardo Barbosa, Glauco Trindade, Vanessa Janni Epelbaum, Juliana Gomes Chang, Jonice Oliveira, José A. Rodrigues Nt and Jano Moreira De Souza. Challenges on Designing a Distributed Collaborative UML Editor
- 56 Wenhe Li, Tie Bao, Lu Han and Shufen Liu. Evidence-Driven Quality Evaluation Model of Collaboration Software Trustworthiness
- 66 Fu-Shiung Hsieh and Jim-Bon Lin. A Multiagent Approach for Collaborative Design of Workflows in Supply Chains

A3: Collaboration Platforms, Software Tools, and Services (II). Chairs: Jean-Paul Barthes / Kenji Sugawara

- 84 Gangyan Xu, George Q. Huang, Ji Fang and Xuan Qiu. An Integrated Cloud Platform for Cooperative Smart Asset Management in Urban Flood Control
- 96 Carla Pereira, Gustavo Figueiredo, Maria Gilda P. Esteves and Jano M. de Souza. We4Fit: A Game With a Purpose for Behavior Change
- 106 Marcio Fuckner, Jean-Paul Barthes and Edson Emílio Scalabrin. Using a Personal Assistant for Exploiting Service Interfaces
- 108 Franciele Beal, Gregory Wanderley, Cesar A. Tacla, Milton Ramos and Emerson Paraiso. FOLKUS-SD: Bulding Folksonomies From Source Code in Collaborative Software Development
- 115 Jian Wang, Qimin Peng and Xiaohui Hu. A Modeling: Internetware-Based Dynamic

- Architecture Evolution Applying to SOA
- 154 Jianping Shen, Yinsheng Li and Shenglong Mi. An Application Development Environment for Collaborative Training Sand Tables.

A4: Communication Support Systems for Collaborative Work. Chairs: Tomoo Inoue / Dirk Soffker

- 32 Gao Feng He. A Novel Active Website Fingerprinting Attack Against Tor Anonymous System
- 38 Fabian Nkemneme and Ruizhong Wei. A Multi-Queue Algorithm for DDoS Attacks
- 44 Jing Yang, Ziyun Liu, Yue Yang and Jianpei Zhang. A Data Anonymous Method Based on Overlapping Slicing
- 112 Jonathan Frez, Nelson Baloian, Gustavo Zurita and Jose A. Pino. Dealing with Incomplete and Uncertain Context Data in Geographic Information Systems
- 116 Claude Moulin, Kenji Sugawara, Yuki Kaeri and Shigeru Fujita. Synchronous Interaction for Supporting Remote Multilingual Brainstorming
- 118 Katsunori Oyama, Hiroyuki Watanabe and Atsushi Takeuchi. Visualization of Turn-Taking and Mental Workload in Collaborative Working Environment
- 129 Dirk Söffker, Olga Muthig and Xingguang Fu. Modeling for Cooperation and Coordination within Structured and Complex Situations Like Unknown Emergency Situations

A5: Technology Management and Data Analysis for Cooperative Work. Chairs: Lin Ma / Chin-Yuan Fan

- 47 Cheng-Chin Tsao, Pei-Shu Fan, Chin-Yuan Fan and Pei-Chann Chang. Innovation Values in the Radio Frequency Identification Device Industry
- 53 Pei-Shu Fan and Lan-Fang Kao. Computerized Automatic Miniature Unmanned Bird-Exclusion Vehicle
- 61 Sheng-San Cheng and Shun-Yi Hsueh. Patenting of China Medical Imaging Market
- 62 Sheng-San Cheng and Pei-I Liu. Medical Image -Ultrasonic Image Patent Map
- 79 Te-Yi Chan, Chin-Yuan Fan, Yi-Ching Liaw and Cheng-Hsin Chiang. The Practice of Non-Patent References (NPR) Analysis to Evaluate the Impact of Academic Journals
- 92 Sheng-San Cheng, Yun-Han Chang and Chung-Min Wu. Patent Map of X-Ray Medical Image -US and Worldwide Patent Analysis
- 140 Rong Yin, Min Liu, Feng Zhang and Wei Wu. Multi-Feature Fusion for Image Segmentation Based on Granular Theory

A6: Collaboration technology applications in aerospace, automotive, and manufacturing. Chairs: Liang Gao / Xiaoping Li

- 5 Xiaodi Pan, Kun Chen and Dingfang Chen. Development of Rapid Prototyping Slicing Software Based on STL Model
- 7 Jorge Camba, Manuel Contero and Gustavo Salvador-Herranz. Speak with the Annotator: Promoting Interaction in a Knowledge-Based CAD Environment Built on the Extended Annotation Concept
- 17 Junjiang Qiu, Xiaodong Zhang, Cancan Zhao and Yang Hu. A Comparative Simulation on Corrective Maintenance Strategies in Cellular Manufacturing Considering Worker Collaboration
- 31 Changqing Liu, Yingguang Li and Weiming Shen. Integration of Process Monitoring

- and Inspection Based on Agents and Manufacturing Features
- 36 Yazhi Li and Xiaoping Li. Hybrid Harmony Search for the Flowline Manufacturing Cell Scheduling Problem
- 59 Lei Wu, Minggang He and Yanyan Han. Hypergraph Clustering-Based Cloud Manufacturing Service Management Method
- 101 Gongzhuang Peng, Huachao Mao, Minghui Li and Heming Zhang. Multi-Level Knowledge Representation and Retrieval of Complex Product Design Based on BOM

A7: Collaborative E-Commerce and E-Governance. Chairs: Yinsheng Li / Hongbo Sun

- 35 Yuanlin Chen, Yi Liu, Yueting Chai and Hongbo Sun. Opportunity Cost Based Constraint Model for Transaction Credit Evaluation
- 40 Xiao Sun, Yi Liu, Yueting Chai and Hongbo Sun. A Method for Online Retail Sales Estimation Based on Semantic Features of Web Pages
- 41 Hongyang Chu, Yueting Chai, Yi Liu and Hongbo Sun. A Novel E-Invoice Framework Towards Data-Oriented Taxation System
- 98 Kuo-Ming Chao, Chen-Fang Tsai and Shin-Li Lu. An intelligent GA-Nonparametric EWMA Sign Chart for Green Chain Management
- 104 Zongshui Xiao, Wei He, Ting Li and Lizhen Cui. A Context-Based Collaboration Supported Framework for E-Commerce PaaS Platform

B1: Collaborative Processing of Big Data. Chairs: Weiming Shen / Kuo-Ming Chao

- 20 Zhongmei Shu, Yayao Zuo and Yong Tang. TSIR: a Chinese Temporal Semantics Information Retrieval Based on MapReduce
- 49 Haoliang Lou, Yunlong Ma, Feng Zhang, Min Liu and Weiming Shen. Data Mining for Privacy Preserving Association Rules Based on Improved MASK Algorithm
- 50 Xiaoting Wei, Yunlong Ma, Feng Zhang, Min Liu and Weiming Shen. Incremental FP-Growth Mining Strategy for Dynamic Threshold Value and Database Based on MapReduce
- 67 Alden Chang, Jhen-Fu Liao, Pei-Chann Chang, Chin-Hung Teng and Meng-Hui Chen. Application of Artificial Immune Systems Combines Collaborative Filtering in Movie Recommendation System
- 73 Yi Jiao, Shaohua Zhang, Yin Li, Yinghui Wang, Baoming Yang and Liwu Wang. An Augmented Map-Reduce Framework for Building Information Modeling Applications
- 105 Ray Y. Zhong, George Q. Huang and Qingyun Dai. A Big Data Cleansing Approach for N-Dimensional RFID-Cuboids
- 130 Adeniyi Abdul, Rahat Iqbal, Anne James, Michael Odetayo and Nazaraf Shah. NORA: Network Oriented Resource Allocation for Data Intensive Application in Cloud Environment

B2: Data Analysis and Business Intelligence for Collaborative Systems in Service Industry (I). Chairs: Tsui-Yii Shih / Chan Hsiao

- 10 Shaoli Bu, Xiaoguang Hong, Zhaohui Peng and Qingzhong Li. Integrating Meta-Path Selection with User-Preference for Top-k Relevant Search in Heterogeneous Information Networks
- 11 Amy J.C. Trappey, Charles V. Trappey, Dennis W.T. Dai, Sandy W.C. Chang and

- Wang-Tsang Lee. The Implementation of Global Logistic Services Using One-Stop Logistics Management
- 13 Charles V. Trappey, Peter Smith, Shelby Trappey, Jasmine T.C. Tung and Lynn W.L. Chen. Using the Collective Intelligence of Sports Fans to Improve Professional Football League Customer Service
- 28 Ying Zhao, Jianpei Zhang, Yue Yang and Jing Yang. A K-Anonymity Clustering Algorithm Based on the Information Entropy
- 46 Tsui-Yii Shih and An-Ni Chien. A Study of Branding Experience Plazas: Strategic Marketing View
- 58 Chan Hsiao, Yi-Hsuan Lee and Yi-Hsuan Li. The Role of Social Capital and Knowledge Sharing in Transformational Leadership Promoting Value Co-Creation –A Cross-Level Analysis

B3: Data Analysis and Business Intelligence for Collaborative Systems in Service Industry (II). Chairs: Hsin-Ying Wu / Edson Emílio Scalabrin

- 94 Li Pan. Prediction in Signed Heterogeneous Networks
- 102 Chun-Hung Yang, Sheue-Ling Hwang and Jan-Li Wang. The Design and Evaluation of an Auditory Navigation System for Blind and Visually Impaired
- 113 Hsin-Ying Wu, Kuan-Liang Liu and Charles V. Trappey. Understanding Customers Using Facebook Pages: Data Mining Users Feedback Using Text Analysis
- 122 Mingchih Chen, Xufeng Zhao and Toshio Nakagawa. Comparisons of Standby and Parallel Systems for Processing Time
- 135 Alberto Ayres Benicio, Ayslan Trevizan Possebom, Bráulio Coelho Ávila, Enembreck Fabrício and Edson Emílio Scalabrin. Multi-Phase Negotiation for Single-Item Bidding
- 149 Meng Wang, Zhenhua Duan and Cong Tian. Simulation and Verification of the Virtual Memory Management with MSVL

B4: Cooperative Work and Applications on Engineering Statistics. Chairs: Kuo-Hao Chang / Chien-Wei Wu

- 33 Luciana Pereira de Araújo, Carla Berkenbrock and Mauro Mattos. A Systematic Literature Review of Evaluation Methods for Health Collaborative Systems
- 45 Yuhui Wang, Amy J.C. Trappey, Benjamin P. Liu and Tsai-Chieh Hsu. Develop an Integrated Patent Quality Matrix for Investigating the Competitive Features among Multiple Competitive Patent Pools
- 82 Kuo-Hao Chang and Hou-Kuen Lu. Solving Quantile-based Stochastic Optimization Problems with Modified Stochastic Nelder-Mead Simplex Method
- 83 Chien-Wei Wu and Yen-Wen Chen. A New Lot Sentencing Method by Variables Inspection
- 87 Kang-Hung Liu and Sheue-Ling Hwang. Systematic Layout Planning in Human-System Interface An Evaluation of Alarm Displays With Spatial Proximity for Accidents Diagnosis of Advanced Nuclear Power Plant
- 117 Chao-Lung Yang, Maisyatus S Irfana and Febriliyan Samopa. Cooperative Team Building by Data Clustering with Constraints
- 151 Chi-Lung Kuo and Chih-Hsing Chu. Statistical Characterization of Resistivity for Carbon Nanotube Buckypapers Produced by Filtering and Suspension

B5: Collaboration Methods, Mechanisms, and Protocols. Chairs: Ruizhong

Wei / Hongming Cai

- 14 Fouad Hanna, Lionel Droz-Bartholet and Jean-Christophe Lapayre. Fault Tolerance Management in Collaborative Systems: Performance Comparison of Consensus Algorithms
- 16 Tao Gu, Hao Li, Li Zhang and Liang Gao. A Level Set Method for Structural Shape and Topology Optimization Using the Radial Basis Function
- 72 Qiang Li, Jean-Paul Barthes and Marie-Hélène Abel. A Framework for Exploiting Collaborative Traces
- 81 Qiang Li, Xiaoyan Wang and Shufen Liu. Quantitative Model Verification in VANET based on Interval Probabilistic Timed Automata
- 85 Dejun Zhang, Fazhi He, Xiantao Cai, Xiaoxia Li and Yiqi Wu. Product Data Exchange of Complex Shape Based on Parametric Curve
- 138 Ana Luiza Dallora Moraes, Felipe Fonseca, Maria Gilda P. Esteves, Daniel Schneider and Jano M. de Souza. A Meta-Model for Crowdsourcing Platforms in Data Collection and Participatory Sensing
- 156 Shaohua Teng, Jihui Fan, Haibin Zhi, Wei Zhang, Dongning Liu, Xiao Chen and Xiufen Fu. A Cooperative Multi-Classifer Method for Local Area Meteorological Data Mining

B6: Collaboration Technology Applications in Business and Administration.

Chairs: Ning Gu / Jianming Yong

- 3 Jianming Yong and Susan Finger. Extended Economic Models for Information Systems Balance Theory
- 52 Marcio Geovani Jasinski, Carla Diacui Medeiros Berkenbrock and Luis Bernardes. A Case Study of Natura Campus Open Innovation Platform – A Collaborative Systems Overview
- 65 Lihong Jiang, Boyi Xu, Cheng Xie and Hongming Cai. A Framework of Emergency Clinical Decision Support System Based on MDA and Resource Model
- 90 Shu-Chiang Lin, Satria Fadil Persada and Reny Nadlifatin. A Study of Student Behavior in Accepting the Blackboard Learning System: a Technology Acceptance Model (TAM) Approach
- 100 Qi Wang, Tun Lu, Xianghua Ding and Ning Gu. Think Twice before Reposting It: Promoting Accountable Behavior on Sina Weibo
- 109 Guangyuan Wang, Hua Wang, Xiaohui Tao, Ji Zhang, Xun Yi and Jianming Yong. Positive Influence Dominating Set Games
- 121 Chun-Ju Lin. How International Information Influence the Investment of Chinese Services Enterprises in Taiwan

B7: Depth-Sensor Based Product and Service Design. Chairs: Chih-Hsing Chu / Ming-Chuan Chiu

- 22 Wei-Ying Cheng, Po-Hsin Huang and Ming-Chuan Chiu. Integrating Physiological and Psychological Techniques to Measure and Improve Usability: an Empirical Study on Kinect Applying of Health Management Sport
- 23 Yi-Jie Chang, Po-Hsin Huang and Ming-Chuan Chiu. Service Dissatisfaction Detection and Service Recovery Design with a Case Study of Kinect Health Management Motion Sport Game
- 143 Giancarlo Fortino, Antonio Guerrieri, Wilma Russo and Claudio Savaglio. Integration

C1: Collaboration Technology Applications in Architecture, Engineering, and Construction. Chairs: Giancarlo Fortino / Zhenhua Duan

- 19 Hao Wu, Jonathan Corney and Michael Grant. Relationship between Quality and Payment in Crowdsourced Design
- 69 Tao Wu, Hao Xu, Wenqiang Hu, Yansong Zhao, Ying Peng, Lvjie Chen and Yu Fu. A Parallel Level-Set Based Method for Topology Optimization
- 75 Gustavo Salvador-Herranz, Manuel Bañó, Manuel Contero and Jorge Camba. A Collaborative Design Graphical Tool Based on Interactive Spaces and Natural Interfaces: A Case Study on an International Design Project
- 93 Nan Jing, Yijun Li and Zhao Wang. A Context-aware Disaster Response System Using Mobile Software Technologies and Collaborative Filtering Approach
- 136 Cristiana Bispo, José David and Rita Maciel. Using a Collaboration Model to Classify Artifacts in Software Product Line for Collaborative Systems
- 137 Edson Lucas, Daniel Schneider, Toacy Oliveira and Jano de Souza. Investigating the Collaborative Support in CollabRDL: an Analysis Based on the 3C Model

C2: Collaboration Technology Applications in Social Networks and Entertainment. Chairs: Jose Pino / Vincent Ng

- 42 Adam Hou and Yuh-Zong Chu. An Automatic Questionnaire Survey Model Based on the Collective Message over the Internet
- 99 Atiao Yang, Yong Tang, Jiangbin Wang and Jieming Chen. Covert Nodes Mining in Social Networks Based on Games Theory
- 141 Beiming Sun and Vincent Ng. Analyzing Sentimental Influence of Posts on Social Networks
- 153 Meng Wang, Lanfen Lin and Feng Wan. New Word Identification in Social Network Text Based on Time Series Information

C3: Collaborative Virtual Environments. Chairs: Xiaodong Zhang / Fazhi He

- 6 Yang Hu, Xiaodong Zhang, Chenjian Gong and Junjiang Qiu. A Simulation-Based Study on the Influence of Knowledge Spillover on Mass Collaborative Network
- 29 Márcio José Mantau, Carla Diacui Medeiros Berkenbrock and Gian Ricardo Berkenbrock. Visualization and Filtering Awareness Information in Mobile Groupwares: an Action Research Approach
- 78 Rodrigo Salvador Monteiro, Geraldo Zimbrão and Jano Moreira De Souza. Collaborative Evolution Process in MDArte: Exchanging Solutions for Information Systems Development among Projects
- 95 Chao Liu, Pingyu Jiang and Wei Cao. Manufacturing Capability Match and Evaluation for Outsourcing Decision-Making in One-of-a-kind Production
- 124 Satoshi Gondo, Kasumi Tarukawa, Tomoo Inoue and Ken-Ichi Okada. Soccer Tactics Analysis Supporting System Displaying the Player's Actions in Virtual Space
- 146 Weichen Chang. A Study on the Computer Supported Communication Work in Virtual Product Design
- 152 Zhilin Xiong, Yanfang Yang, Xiaoqiang Guo, Yun Chen and Jiquan Hu. Design and Simulation of Intelligent Brake System Based on MATLAB and ADAMS

C4: Collaborative Approaches in Healthcare Services and Systems. Chairs: Robert Lu / Wenfeng Li

- 37 Pei-Fang Tsai, I-Sheng Chen and Kevin Pothoven. Development of Handheld Healthcare Information System in an Outpatient Physical Therapy Clinic
- 39 Chui-Yu Chiu, Po-Chou Shih, I-Ting Kuo and Cheng-Hsin Ke. RFID Reader Network Optimization for Hospital Management
- 48 Lin Yang, Yanhong Ge, Wenfeng Li, Wenbi Rao and Weiming Shen. A Home Mobile Healthcare System for Wheelchair Users
- 91 Bhuvaneshwari Arunachalan, Sara Diamond, Steve Szigeti, Derek Reilly, Fanny Chevalier, Anne Stevenz, Borzu Talaie and Maziar Ghaderi. Designing Portable Solutions to Support Collaborative Workflow in Long-Term Care: a Five Point Strategy
- 125 Ta-Ping Lu, Pei-Fang Tsai and Ya-Chen Chu. An Agent-Based Collaborative Model for Orthopedic Outpatient Scheduling
- 132 María Aydeé Sánchez Santana, Marie-Laure Betbeder, Jean-Christophe Lapayre and Jaime Carranza Madrigal. COOVADIS: A New Framework for Collaborative Diagnosis Approach of the Vascular System
- 139 Luciana Pereira Araújo, Carla Diacui Medeiros Berkenbrock, Mauro Mattos and Eric Boeing. Using Participatory Design in the Construction of a Collaborative System

C5: Collaborative Computing (Clouds, Grids, and Web Services). Chairs: Junzhou Luo / Sergio Ochoa

- 4 Ahmad Sholehin Bin Sarib and Haifeng Shen. SORC: Service-Oriented Distributed Revision Control for Collaborative Web Programming
- 15 Shaowen Hong, Chengjie Mao, Zhenxiong Yang and Hanjiang Lai. A New Team Recommendation Model with Application in Social Network
- 21 Cheng Zheng and Weiming Shen. A Study of Intents Resolving for Service Discovery
- 68 Huanhuan Xia, Tun Lu, Bin Shao, Xianghua Ding and Ning Gu. Hermes: On Collaboration across Heterogeneous Collaborative Editing Services in the Cloud
- 70 Sergio F. Ochoa, Alvaro Monares and José A. Pino. Modeling the Interaction in Human-Centric Wireless Sensor Networks
- 119 Wenan Tan and Yong Sun. Multivariate Quality Control Chart for Monitoring SLA of Workflow Application
- 145 Jiyuan Shi, Junzhou Luo, Fang Dong and Jinghui Zhang. A Budget and Deadline Aware Scientific Workflow Resource Provisioning and Scheduling Mechanism for Cloud

C6: Collaboration Theories and Methodologies. Chairs: Kuo-Ming Chao / Yong Tang

- 1 Miguel A. Teruel, Elena Navarro, Víctor López-Jaquero, Francisco Montero and Pascual Gonzalez. A Design Pattern for Representing Workspace Awareness
- 18 You Song, Yunfeng Luo, Ye Zhang and Li Deng. Version Storage in Collaborative Design System Based on Circular Linked List
- 27 Shanshan Wang, Liping Gao, Chunxue Wu and Yicheng Yao. Research on Consistency Maintenance of the Real-Time Image Editing System Based on Bitmap
- 74 Chengbang Zhu, Bing Li and Shufen Liu. A Component Quality of Service Modeling Method

- 80 Ting-Kuo Peng. A Firing Sequence based Algorithm for Two-Sided Assembly Line Balancing
- 123 Shiping Huang, Yong Tang, Feiyi Tang and Jianguo Li. Link Prediction Based on Time-Variied Weight in Co-Authorship Network
- 157 Ta-Sheng Lo, Hsiao-Lan Wei and Hsi-Peng Lu. New Service Development Model: A User Experience-Oriented Design

C7: Collaborative Energy Assessment and Management. Chairs: Lin Ma / I-Hsuan Hong

- 12 Amy J.C. Trappey, Charles V. Trappey, Danny Y.C Wang, S.J. Li and Jerry J. R. Ou. Evaluating Renewable Energy Policies Using Hybrid Clustering and Analytic Hierarchy Process Modeling
- 110 Wheyming Song, Grace Lin and Zih-Yi Wu. Computer-Supported Methodologies to Estimate the Eave-Effect of Building Energy Consumption
- 126 Rong Xie, Muting Hao, Liang Guan and Yan-Jun Shi. Study on Unsteady Flow Collaborative Characteristics of Semi-Open Impeller and Diffuser in Centrifugal Compressor
- 144 Xian-Chang Guo, Chung-Shou Liao and Chia-Chi Chu. Multi-Objective Power Management on Smart Grid
- 147 I-Hsuan Hong and Guillermo Nápoles Rodríguez. Issues Affecting the Clean Development Mechanism (CDM): A Review
- 155 Yen-Ting Lin, Haoying Sun and Shouqiang Wang. Sustainable Product Design under Resource Scarcity

D5: Special Invited Sessions: Cloud Services for E-Learning in Mechatronic by Prof. Anne James and Prof. Kuo-Ming Chao

D6: Special Invited Industrial/Academic Forum on Additive Manufacturing and 3D Printing. Chairs: JY Jeng / James Huang

- 1 Ji-Bin Horng
Technical Advances of ITRI 3D Printing Solutions
Industrial Technology Research Institute ITRI South Campus
Additive Manufacturing & Laser Application Center
- 2 Jackson Ku
Technical Advances of Renishaw Solutions
Renishaw (Taiwan) Inc.
- 3 Rick Hsu
Technical Advances of MicroJet Solutions
Microjet Technology Co., Ltd.
- 4 Wei-Nien Su
AM in the Luxury Goods Sector - A Case Study of the Development of Porcelain Products in Taiwan
National Taiwan University of Science and Technology
- 5 Elsie Chen
SYSCOM Cloud Software Foundry- A Case Study to Adopt Capacity Utilization for Software Development

SYSCOM Computer Engineering Company