



**2015 19th IEEE International Conference on
 Computer Supported Cooperative Work in Design (CSCWD 2015)**
May 6-8, 2015, Calabria, Italy
<http://2015.cscwd.org/>

Conference Program

Wednesday May 6			
8.30	Plenary (Open)		
9.00	Keynote Speech 1 by Prof. Andrea Omicini		
10.00	Coffee Break		
10.30	Session A1	Session B1	Session C1
13.00	Lunch Break		
14.30	Session A2	Session B2	Session C2
16.00	Coffee Break		
16.30	Session A3	Session B3	Session C3
18.30	Close Sessions		
20.30	Welcome Cocktail		

Thursday May 7			
8.30	Keynote Speech 2 by Prof. Wil van der Aalst		
9.30	Session A4	Session B4	Session C4
10.30	Coffee Break		
11.00	Session A5	Session B5	Session C5
13.00	Lunch Break		
14.30	Session A6	Session B6	Session C6
16.00	Coffee Break		
16.30	Social Event (Tropea)		
21.00	Conference Banquet		

Friday May 8			
8.30	Keynote Speech 3 by Prof. Gregory O'Hare		
9.30	Session A7	Session B7	
10.30	Coffee Break		
11.00	Session A8	Session B8	
13.00	Conference Closing		
13.30	Lunch Break		

A1:**Collaboration Methods, Mechanisms, and Protocols.***Chair: Weiming Shen*

7. Bin Lei, Hao Chen, Liangcai Zeng and Quanjie Gao. Second-order Consensus Algorithm with Input Constraints for Swarm Robots Formation Control.
14. Zhu Junwu, Song Heng and Liu Fang. A Method of Computing Equilibrium for the Partnership Formation.
23. Fernanda Ribeiro, Melise Paula and Jano Souza. The use of Information Visualization Techniques in the Collaborative Context.
Zedadra Ouarda, Jouandeau Nicolas, Hamid Seridi and Giancarlo Fortino.
26. Design and Analysis of Cooperative and Non Cooperative Stigmergy-based Models for Foraging.
37. Rui Wang, Qimin Peng and Xiaohui Hu. Software Architecture Construction and Collaboration based on Service Dependency.
Rong Yin, Feng Zhang, Min Liu, Feng Gui, Fei Li and Weiming Shen.
78. Communication Model of Embedded Multi-protocol Gateway for MRO Online Monitoring System.

A2:**Collaboration Technology Applications in Logistics and Transportation.***Chair: Jano Souza*

89. Ahlem Askri, Mansour Rached and Sadok Ben Yahia. Mono-objective and multi-objective models for the pickup and delivery problem with time windows.
93. Luiz Felipe Oliveira, Daniel Schneider, Jano Souza and Sérgio A. Rodrigues. Leveraging the crowd collaboration to monitor the waiting time of day-to-day services.
111. Jorge E. Luzuriaga, Miguel Perez, Pablo Boronat, Juan Carlos Cano, Carlos Calafate and Pietro Manzoni. Impact of Mobility on Message Oriented Middleware (MOM) Protocols for Collaborative Applications in Transportation.
114. Lucian Luncean, Costin Badica and Alex Becheru. Initial Evaluation of an Ontology for Transport Brokering.

A3:**Collaboration Theories and Methodologies.***Chair: Jean-Paul Barthez*

9. You Song, Ye Zhang, Li Deng, Pengyu Du, Yunfeng Luo and Shuyuan Zhang. A Cooperative Design Model Based on Vertex-Colored Graph.
22. Alfredo Milani and Valentina Franzoni. Semantic Context Extraction from Collaborative Networks.
24. Tianchi Zhang, Ji Li, Jing Zhang, Jianpei Zhang and Haiyuan Chen. Survey on Modeling.

- 34. Jean-Paul Barthes and Marcio Fuckner. ONTOCODESIGN: an Exercise in Using Agents to Cooperatively Develop the CSCWD Ontology.
- 36. Juliana França, Angélica Dias and Marcos Borges. Observations on collaboration in Agile software development.

A4: Communication Support Systems for Collaborative Work.

Chair: Sergio Ochoa

- Iyubanit Rodríguez, Macarena Oteo, Samuel Gleisner and Valeria Herskovic.
- 75. SINCOM: communicating grandparents and grandchildren living at a distance.
- Martin Boeckle and Jasminko Novak. Explorative Analysis of Applying
- 17. Collaborative Visual Annotations in Online Discussions to Support the Ideation of Products or Services.
- Daya Lages Rodrigues, Flavia Santoro, Fernanda Araujo Baiao and Joanne
- 21. Manhães. Towards a context-based representation of the dynamicity perspective in knowledge-intensive processes.

A5: Collaboration Theories and Methodologies.

Chair: Weiming Shen

- 42. Hao Chen, Yinsheng Li, Jianping Shen and Jinghao Bian. Online service search based on multi-dimensional semantic service model.
- 49. Lun Wang, Tun Lu, Hansu Gu, Xianghua Ding and Ning Gu. Influential User Recommendation through SVD based Topic Diversification.
- 72. Marcio Fuckner, Jean-Paul Barthes and Edson E. Scalabrin. Selecting and combining services using goals: A step towards goal-driven processes.
- 83. Thomas Polacsek. A Process to Support and to Report Collaborative Decision.
- 119. Shaohua Teng, Hao Wu, Wei Zhang, Dongning Liu and Lu Liang. A Cooperative Modeling of User Experience based on the Improved SVM.

A6: Collaboration Technology Applications in Social Networks and Education.

Chair: Ruben Fuentes Fernandez

- 58. Josiane M. Pinheiro, Cesar A. Tacla and Emerson C. Paraiso. Are Folksonomies Shared Conceptualizations?
- 110. Alex Becheru and Lucian Luncean. Organisational Network Analysis within the Academic World: Initial Steps.

- 124. Rubén Fuentes-Fernández and Daniela Xavier. Supporting community annotation with tailored tools.
- 113. Leovy Echeverría and Ruth Cobos. Designing the assessment of the collaborative learning process in LMS courses.

A7: Communication Support Systems for Collaborative Work.
Chair: Amy J.C. Trappey

- 32. Yuhui Wang, Amy J.C. Trappey and Tzu-Han Chow. Incorporating quality function deployment to e-discovery system exploring Voice-over-LTE service technology.
- 44. Pasquale Pace, Gianluca Aloï and Giancarlo Fortino. An Application-Level Framework for UAV/Rover Communication and Coordination.
- 121. Xiaodan Gu, Ming Yang and Junzhou Luo. A Novel Website Fingerprinting Attack against Multi-tab Browsing Behavior.

A8: Collaboration Technology Applications in Social Networks and Education.
Chair: Sergio Ochoa

- 50. Li-Feng Huang, Xi Liu and Vincent Ng. Associating Sentimental Orientation of Chinese Neologism in Social Media Data.
- 80. Jing Ye, Yasuhito Noguchi and Tomoo Inoue. Effect of Multiple Auditory Localization for Multi-Participant Remote Conversation.
- 88. Carlos Padoa, Daniel Schneider, Jano Souza and Sérgio Palma J. Medeiros. Investigating Social Curation Websites: a Crowd Computing perspective.
- 101. Davide Vega, Roc Meseguer, Felix Freitag and Sergio Ochoa. Motivating the non-technical participation in technical communities.
- 104. Luis G. Montané Jiménez, Edgard Benítez-Guerrero, Carmen Mezura-Godoy and José A. Pino. Measuring Social Presence in Groupware Systems.
- 76. Feng Gui, Yunlong Ma, Feng Zhang, Min Liu, Fei Li, Weiming Shen and Hua Bai. A Distributed Frequent Itemset Mining Algorithm Based on Spark.

B1: Collaboration Technology Applications in Aerospace, Automotive, and Manufacturing.
Chair: Xiaoping Li

- 71. Jiaxin Zhao, Gongzhuang Peng and Heming Zhang. Schedule and cost integrated estimation for complex product modeling based on Weibull distribution.
- 81. Yanling Feng and Guozhu Jia. Scheduling under hybrid mode with additive manufacturing.

- 82. Meng Wang, Zhenhua Duan, Cong Tian and Nan Zhang. Verification of A Real Time Scheduling Protocol of Safety-Critical Systems.
- 85. Neeraj Nehra, Rahat Iqbal, Anne James and Amit Dua. Collaborative P2P Context-Aware Information Propagation in Vehicular Ad Hoc Networks.
- 98. Haiyan Xu and Xiaoping Li. Group scheduling for complex products with time-dependent deteriorating effect.
- 134. Wei Shen, Dingfang Chen, Lijie Li and Menglun Tao. Modeling and Simulation of Vibration Energy Harvester with Piezomagnetoelastic Beam Array.

B2: Technology Management and Data Analysis for Cooperative Work.

Chair: Jianming Yong

- 46. Geng Sun, Tingru Cui, Jianming Yong, Jun Shen and Shiping Chen. Drawing Micro Learning into MOOC: Using Fragmented Pieces of Time to Enable Effective Entire Course Learning Experiences.
- 48. Bo Tang, Tun Lu, Hansu Gu, Xianghua Ding and Ning Gu. Measuring Domain-Specific User Influence in Microblogs: An Actor-Network Theory Based Approach.
- 52. Qiang Li and Xiaofeng Wang. Collective Traces Modeling in Collaborative Working Environment.
- 63. Jiakai Wang and Takao Terano. Facilitating collaborative design through feature recognition and scripting representation.

B3:

IOT&L Workshop

Chair: Antonio Guerrieri / Wenfeng Li

- 99. Ruizhong Wei and Kun Hou. Indoor Location Based on WiFi.
- 53. Xin Lu, Sheng Wang and Weidong Li. Development of a WSN based real time energy monitoring platform for industrial applications.
- 67. Xiuwen Fu, Wenfeng Li, Huahong Ming and Giancarlo Fortino. A Framework for WSN-based Opportunistic Networks.
- 73. Dong Yuan, Jiong Jin, John Grundy and Yun Yang. A Framework for Convergence of Cloud Services and Internet of Things.
- 91. Giandomenico Spezzano, Andrea Giordano, Andrea Vinci and Harry Sunarsa. Twitter to Integrate Human and Smart Objects by a Web of Things Architecture.

B4: Collaboration Technology Applications in Aerospace, Automotive, and Manufacturing.

Chair: Guoqing Jin

125. Guoqing Jin, Weidong Li, Sheng Wang and Dunbing Tang. A Systematic End-of-Life Management Approach for Waste Electrical and Electronic Equipment.
5. Feng Wang, Chong Su, Guangyu Mu and Xiaozhen Mi. Optimization design for suction reed valve component of compressors.
100. Hongwei Ma, Zhihui Hu, Yong Hu, Yanfang Yang and Jiquan Hu. Research on Structure analysis and Simulation Optimization of Parallel Grooved Multi-layer Drum Based on ANSYS Workbench.

B5:

IOT&L Workshop

Chair: Antonio Guerrieri / Wenfeng Li

102. Esunly Medina, David Lopez, Dolores Royo, Roc Meseguer and Sergio Ochoa. CoSP: A Collaborative Sensing Platform for Mobile Applications.
120. Ye Zhong, Wenfeng Li, Wenjing Guo, Gabriël Lodewijks and Lanpeng Gong. A method of modeling and service encapsulation on cloud logistics resources.
123. Shijie Li, Huarong Zheng, Rudy R. Negenborn and Gabriel Lodewijks. Coordination for Efficient Transport over Water.
126. Fan Feng, Yusong Pang, Gabriel Lodewijks and Wenfeng Li. Agent-based Negotiation and Decision-making for Efficient Hinterland Transport Plan.
133. Mark B. Duinkerken. Routing of AGVs on Automated Container Terminals.

B6:

Collaborative Virtual Environments.

Chair: Jano Souza

12. You Song, Wentao Wei, Li Deng, Pengyu Du, Ye Zhang and Dianhui Nie. 3D-CollaDesign : A Real-time Collaborative System for Web 3D Design.
31. Ruizhong Wei and Xiaochuan Lin. Vector Signature fro Face Recognition.
33. Armando Cruz, Hugo Paredes, Benjamim Fonseca and Leonel Morgado. Fitting Three Dimensional Virtual Worlds into CSCW.
39. Alfonso Garcia Frey, Jean-Sébastien Sottet and Alain Vagner. A Multi-Viewpoint Approach to Support Collaborative User Interface Generation.

B7: Collaboration Technology Applications in Architecture, Engineering, and Construction.

Chair: Cesar Augusto Tacla

- Mariela Morveli Espinoza, Ayslan Trevisan Possebom, Guilherme Firmino
79. Mendes and Cesar Augusto Tacla. Using argumentation for cooperative decision making process.
 77. Alessandro Sabato. Pedestrian bridge vibration monitoring using a wireless MEMS accelerometer board.
 87. Bertrand David and Rene Chalon. Situated Cooperative Work in engineering How put together predictable and repeatable behaviors with creativity and agility.

B8: Collaborative Virtual Environments.

Chair: Jano Souza

47. Luciano Argento and Angelo Furfaro. A multi-protocol framework for the development of collaborative virtual environments.
94. Maria Gilda P. Esteves, Geraldo Zimbrão, Filipe B. Carmo, Rafaela C. Forzza, Marco Vaz, Fabiana L. R. Filardi, Paula Leitman, Vitor F. Monteiro and Jano Souza. A crowdsourcing approach to the design of Virtual Research Environments.
96. Flavio França, Adriana Vivacqua and Maria Luiza Campos. Designing a Gamification Mechanism to Encourage Contributions in a Crowdsourcing Systems.
117. Lingyan Hu, Lei Xiao, Xiaoping Liu and Chunsheng Yang. The Haptic Interaction in Virtual Surgery based Sliding Mode Control.
122. Pietro Corona, Alfredo Cuzzocrea and Enzo Mumolo. Coarse-grained Workload Categorization in Virtual Environments using the Dempster-Shafer Fusion.
84. Alfredo Cuzzocrea, Mohamed Gaber and Staci Lattimer. Spatio-Temporal Analysis of Greenhouse Gas Data Via Clustering Techniques.

C1: Collaboration Technology Applications in Architecture, Engineering, and Construction.

Chair: Wenfeng Li

1. Yanjun Shi, Luyang Hou and Xiaojun Zheng. Solving Workshop Layout by Hybridizing Invasive Weed Optimization with Simulated Annealing.
3. Xiantao Cai, Fazhi He, Weidong Li and Yiqi Wu. Operation-Effects Merging for Collaborative Design of Personalized Product.
4. Xiaozhen Mi, Hongtong Chen, Feng Wang and Xiujuan Zhao. Research and Implementation of Rapid Development System for High-speed Trainsets Body.

- Jin Yi, Xinyu Li, Liang Gao and Yongping Chen. Optimal Design of
29. Photovoltaic-Wind Hybrid Renewable Energy System using a Discrete Geometric Selective Harmony Search.
 30. Taifeng Li, Peigen Li, Wenlong Li, Liang Gao, Jin Yi and Yuewei Bai. Cuckoo Search-based Range Image Registration for Freeform Surface Inspection.
 40. Zhenning Sun, Yanfang Yang, Jiquan Hu and Huaiyu Yan. Design of the intelligent braking system with PLC based on the USS interface protocol.

C2: Collaboration Technology Applications in Business and Administration.

Chair: Amy J.C. Trappey

20. Montri Wiboonrat. Systems Engineering Approach to Final Design Freeze in Uncertain Project Environments.
61. Jietao Dong, Linxuan Zhang, Tianyuan Xiao and Hui Li. A dynamic part supply method for automated mixed-model assembly lines.
65. Amy J.C. Trappey, Jasmine T.C. Tung, Charles Trappey, Tong-Mei Wang and Mark Y.L. Tang. Computer supported ontology-based patent analysis considering business processes and strategic patent portfolio management.
69. Amy J.C. Trappey, Lynn Wei-Lin Chen and Charles Trappey. Computer supported formal concept analysis to explore the evolution of patent litigation.

C3: Collaborative Computing (Clouds, Grids, and Web Services).

Chair: Jianming Yong

2. Omar Ali, Jeffrey Soar, Jianming Yong, Hoda McClymont and Daniel Angus. Collaborative Cloud Computing Adoption in Australian Regional Municipal Government: An Exploratory Study.
11. Jun Chen, Tun Lu, Guo Li, Tiejiang Liu, Xianghua Ding and Ning Gu. Provenance based Diagnosis for Scientific Workflows.
97. Xiaoping Li, Lihua Qian and Jie Yang. Cloud workflow scheduling with deadline and time slots constraints.
27. Fu Peiguo, Peng Qimin and Hu Xiaohui. A semantic parse web service composition system based on QoS.
28. Quanquan Zhang, Wenan Tan and Yong Sun. Parallel Computing Method for Complex Emergency Systems Based on Multi-Objective Decision-Making with Analytic Hierarchy Process.

C4: Collaborative Systems for Activity Recognition.

Chair: Raffaele Gravina

41. Ming Guo and Zhelong Wang. A Feature Extraction Method for Human Action Recognition using Body-Worn Inertial Sensors.
- Xizhe Yin, Weiming Shen, Jagath Samarabandu and Xianbin Wang. Human
59. Activity Detection Based on Multiple Smart Phone Sensors and Machine Learning Algorithms.
62. Giancarlo Fortino, Raffaele Gravina and Wilma Russo. Activity-aaS: Cloud-assisted, BSN-based system for physical activity monitoring.

C5: Collaborative Computing (Clouds, Grids, and Web Services).

Chair: M. Mehedi Hassan

54. Yiqi Wu, Fazhi He, Dejun Zhang and Xiaoxia Li. Feature-based Data Exchange as Service for Cloud Design and Manufacturing.
57. Gongzhuang Peng, Jiaxin Zhao, Minghui Li, Heming Zhang and Baocun Hou. A SLA-based Scheduling Approach for Multi-tenant Cloud Simulation.
13. Peng Zhi Xie, You Song, Yue Wang, Yunfeng Luo and Ye Zhang. A Solution for Web Service Composition Based on Logic-Interface Orchestration.
103. Ye Yang, Fang Dong and Junzhou Luo. Computing Service Skycube for Web Service Selection.
132. Mohammad Mehedi Hassan, M. Abdullah Al-Wadud and Giancarlo Fortino. A Socially Optimal Resource and Revenue Sharing Mechanism in Cloud Federations.

C6: Collaborative Approaches in Healthcare Services and Systems.

Chair: Vincenza Carchiolo

64. Marcio Cunha and Hugo Fuks. AmbLEDs : Collaborative Healthcare for AAL Systems.
86. Alessandro Longheu, Vincenza Carchiolo and Michele Malgeri. Personal Health Record feeding via medical forums.
105. Ángel Ruiz Zafra, Manuel Noguera, Kawtar Benghazi and Sergio F. Ochoa. A Cloud collaborative approach for managing patients wellness.
131. Taotao Ma and Hua Wang. Causal dependencies of provenance in health environments.