Collaboration Systems and Technologies Track (CL)
Co-Chairs: Bob Briggs and Jay Nunamaker

Advances in Teaching and Learning Technologies
Minitrack Chairs: David Spencer, Timothy Ellis, Eric Santanen

CL 1
Grand Ballroom 3
Thursday, 8:00 - 9:30 am

Enhancing the Professional Vision of Teachers: A Physiological Study of Teaching Analytics Dashboards of Students’ Repertory Grid Exercises in Business Education
Kostas Pantazos, Ravi Vatrapu

Creating a Sense of a Collaborative Learning Community with Google+
Claire Ikumi Hitosugi

Casper Harteveld, Steven C. Sutherland, Amy J. Stahl, Gillian Smith, Cigdem Talgar

CL 2
Grand Ballroom 3
Thursday, 10:00 - 11:30 am

The Role of Agency Theory and Perceived Goal Divergence in IS Continuance: A Replication and Extension Study
Tove Bøe, Boge Gulbrandsen

**Introducing Avatarification: An Experimental Examination of how Avatars Influence Student Motivation
Rabindra Ratan, RV Rikard, Celina Wanek, Madison McKinley, Lee Johnson, Young June Sah

Personalized Article Recommendation Based on Student’s Rating Mechanism in an Online Discussion Forum
Chuen-He Liou

CL 3
Grand Ballroom 3
Thursday, 2:00 - 3:30 pm

Determinants of E-Learning Adoption in Universities: Evidence from a Developing Country
Eric Ansong, Sheena Lovia Boateng, Richard Boateng, John Effah

The Use of an Audience Response System to Monitor Students’ Knowledge Level in Real-time, Its Impact on Grades, and Students’ Experiences
Margit Kastner

The Appropriation of Collaborative Learning – Qualitative Insights from a Flipped Classroom
Andreas Janson, Matthias Söllner, Jan Marco Leimeister

CL 4
Grand Ballroom 3
Thursday, 4:00 - 5:30 pm

CSCL in STEM Education: Preliminary Findings from a Meta-Analysis
Heisawn Jeong, Cindy E. Hmelo-Silver, Kihyun Jo, Myungho Shin

Smart Quizzes in the Engineering Education
Sergio Antonio Andrade de Freitas, Rita de Cássia Silva, Tiago Franklin R. Lucena, Eduardo do N. Ribeiro, Victor Cotrim de Lima, Rodrigo M. S. da Silva

Geek Toys for Non-Techies? Using Robots in Introductory Programming Courses for Computer Science Non-Majors
Erica Weilemann, Philipp Brune, Dany Meyer

** Best Paper Nomination
Communication and Information Systems Technology for Crisis and Disaster Management
Minitrack Chairs: Julie Dugdale, Jose J. Gonzalez, Murray Turoff

CL 5  Grand Ballroom 3  Wednesday, 10:00 - 11:30 am

#Help. The Reality of Social Media Use in Crisis Response: Lessons from a Realistic Crisis Exercise
Kenny Meesters, Lars van Beek, Bartel Van de Walle

Leveraging Bystander Reports in Emergency Response Work: Framing Emergency Managers Social Media Use
Fredrik Bergstrand, Dick Stenmark

An Overview of Public Concerns during the Recovery Period after a Major Earthquake: Nepal Twitter Analysis
Jaziar Radianti, Starr Roxanne Hiltz, Leire Labaka

Experiences in Emergency Response at the Great East Japan Earthquake and Tsunami
Yuko Murayama, Jun Sasaki, Dai Nishioka

CL 6  Grand Ballroom 3  Wednesday, 2:00 - 3:30 pm

Insights from a Simulation Model of Disaster Response: Generalization and Action Points
Jose J. Gonzalez, Leire Labaka, Starr Roxanne Hiltz, Murray Turoff

Modelling Air Pollution Crises Using Multi-agent Simulation
Sabri Ghazi, Julie Dugdale, Tarek Khadir

**A Metamodel for Knowledge Management in Crisis Management
Frédérick Benaben, Matthieu Lauras, Sébastien Truptil, Nicolas Salatgé

New Vistas for Firefighter Information Systems? Towards a Systematic Evaluation of Emerging Technologies from a Task-Technology Fit Perspective
Sebastian Schlauderer, Sven Overhage, Julian Weidinger

CL 7  Grand Ballroom 3  Wednesday, 4:00 - 5:30 pm

Web-based Collaborative Document Writing for Emergency Management
Adrian Shatte, Jason Holdsworth, Ickjai Lee

Understanding Communications in Medical Emergency Situations
Lyuba Mancheva, Julie Dugdale

Potential of Collaborative Mapping for Disaster Relief: A Case Study of OpenStreetMap in the Nepal Earthquake 2015
Thiago Henrique Poiani, Roberto dos Santos Rocha, Lívia Castro Degrossi, João Porto de Albuquerque

Volunteered Geographic Information and its Implications for Disaster Management
Milad Mirbabaie, Stefan Stieglitz, Stephan Volkeri

Creativity in Teams and Organizations
Minitrack Chairs: Gert-Jan de Vreede, Roni Reiter-Palmon, Ginamarie Ligon

CL 8  Kuhio Theater  Friday, 10:00 - 11:30 am

Opening the Mind: Designing 3D Virtual Environments to Enhance Team Creativity
Randall K. Minas, Alan R. Dennis, Anne P. Massey

** Best Paper Nomination
Semi-Automated Questions as a Cognitive Stimulus in Idea Generation
Dominik Siemon, Taras Rarog, Susanne Robra-Bissantz

A Study on the Acceptance of Computer-Supported Morphological Analysis
Veronika Gamper, Marin Zec, Stefan Langer, Andreas Butz

**How Not to Select Ideas for Innovations: A Critique of the Scoring Method**
Graham Horton, Jana Goers, Stefan Werner Knoll

**Cross-Organizational and Cross-Border IS/IT Collaboration**
Minitrack Chairs: Ilsang Ko, Daniel Beimborn

CL 9  Grand Ballroom 5  Friday, 1:00 - 2:30 pm

SMGSC: Social-Level Macro-Governing Methodology for Cross-Management-Domain Service Collaboration Processes
Ji Gao, Hexin Lv, Zhiyong Jin, Ping Xu

Supply Chain Integration and Collaboration for improving Supply Chain Performance: A Dynamic Capability Theory Perspective
Sungbae Kang, Taesoo Moon

Supporting Joint Idea Generation with Software Prototypes in Offshore-Outsourced Software Development Projects
Maike Winkler, Thomas Huber, Jens Dibbern

Continuance Intention to Use Social Network Game: The Philippines Case
Arceli Piguing, Ilsang Ko

CL 10  Grand Ballroom 5  Friday, 3:00 - 4:30 pm

Inculcating Institutional Infrastructure to Support International Collaboration
Airong Luo, Ted Hanss, Dave Malicke, Greg Doyle, Nadia Tagoe

IT-Based Value Co-Creation: A Literature Review and Directions for Future Research
Markus Mandrella, Sebastian Zander, Lutz M. Kolbe

The Tension between Stabilized Cooperation and Intensified Competition: Greening of Technological Frames in Practice
Fatemeh Saadatmand, Rikard Lindgren

**Data Science for Collaboration**
Minitrack Chairs: Souren Paul, Lakshmi Iyer, Lina Zhou

CL 11  Grand Ballroom 4  Thursday, 2:00 - 3:30 pm

Detecting Knowledge Innovation through Automatic Topic Labeling on Scholar Data
Diogo Nolasco, Jonice Oliveira

Collaborative Information Service: The Security Question
Asim Kumar Pal, Subrata Bose

**An Architecture to Enhance Collaboration in Scientific Software Product Line**
Anrafel F. Pereira, José Maria N. David, Regina Braga, Fernanda Campos

** Best Paper Nomination
Decision, Negotiation, Leadership, Social Communities and Technology
Minitrack Chairs: Tung Bui, Melvin Shakun

CL 12  Garden Isle 4  Friday, 1:00 - 2:30 pm
Open Strategic Planning in Universities: A Case Study
Alireza Amrollahi, Amir Hosein Ghapnchi

Seller-determined Two-attribute Reverse Auctions: The Case of Linear Utilities
Gregory E. Kersten

Enabling Computer to Negotiate with Human in E-Commerce: A Strategy Model
Mukun Cao, Lifang Peng

CL 13  Garden Isle 4  Friday, 3:00 - 4:30 pm
**Selecting Physiological Features for Predicting Bidding Behavior in Electronic Auctions
Marius B. Müller, Marc T. P. Adam, David J. Cornforth, Raymond Chiong, Jan Krämer, Christof Weinhardt

Information Sharing for Collective Sensemaking
Yuqing Tang, Christian Lebiere, Katia Sycara, Don Morrison, Michael Lewis, Paul Smart

Design and Innovation of Social Networking Services
Minitrack Chairs: Bo Xiao, Chee-Wee Tan, Eric Lim

CL 14  Kuhio Theater  Friday, 8:00 - 9:30 am
Enrichment of Smart Home Services by Integrating Social Network Services and Big Data Analytics
Maximilian Wich, Tommi Kramer

Combating Online Abuse: What Drives People to Use Online Reporting Functions on Social Networking Sites
Randy Y.M. Wong, Christy M.K. Cheung, Bo Xiao

Challenges and Opportunities in Designing Innovative Social Networking Services – An Extended Discussion by Izak Benbasat

Emerging Issues in Distributed Group Decision-Making: Opportunities and Challenges
Minitrack Chairs: Anil Aggarwal, Doug Vogel, Yuko Murayama

CL 15  Garden Isle 4  Friday, 8:00 - 9:30 am
Trust Development in Globally Distributed Collaboration: A Case Study in China
Xusen Cheng, Jianyue Liu, Douglas Druckenmiller, Shixuan Fu

Dysfunctional Groups: An Exploratory Study
Anil Aggarwal

Remotely Piloted Aircraft Systems (RPAS) for Extreme Missions in the Arctic and the Monitoring of the Ukraine Crisis by the Organization for Security and Co-operation in Europe (OSCE)
Harri Ruoslahti, Juha S. Knuuttila

CL 16  Garden Isle 4  Friday, 10:00 - 11:30 am

** Best Paper Nomination
Team Network Evolution while Undergoing a Lean Transformation: A Missing Success Indicator?
Jorge Colazo

A Study on the Clothes Recommendation for a Cold Region of Japan
Yuki Nakano, Dai Nishioka, Yoshia Saito, Yuko Murayama

An Empirical Taxonomy of Smartphone Users In Their Daily Distributed Decision Making
Efosa C. Idemudia, Mahesh S. Raisinghani, Placide Poba-Nzaou, Sylvestre Uwizeyemungu

Global Virtual Teams
Minitrack Chairs: Mike Hine, Derrick L. Cogburn

CL 17
Grand Ballroom 3
Wednesday, 8:00 - 9:30 am

“Mind the Gap”: An Analysis of Communication in Agile Global Outsourced Software Development Projects
Nikolaus Schmidt, Caroline Meures

A Processual View on Social Presence Emergence in Virtual Worlds
Laura Kohonen-Aho, Pauli Alin

**When a One-Hour Time Difference Is Too Much: Temporal Boundaries in Global Virtual Work
Anu Sivunen, Niina Nurmi, Johanna Koroma

Human- and Task-Centered Assistance Systems
Minitrack Chairs: Bernd Kuhlenkötter, Robert Weidner, Tobias Redlich

CL 18
Garden Isle 2
Wednesday, 2:00 - 3:30 pm

Conceptualizing Hybrid Human-Machine Systems and Interaction
Sonja Buxbaum-Conradi, Tobias Redlich, Jan-Hauke Branding

Individual Support in Industrial Production - Outline of a Theory of Support-Systems
Robert Weidner, Athanasios Karafillidis, Jens P. Wulfsberg

A Novel Concept for Wearable, Modular and Soft Support Systems Used in Industrial Environments
Bernward Otten, Patrick Stelzer, Robert Weidner, Andreas Argubi-Wollesen, Jens P. Wulfsberg

Human- and Task-Centered Assistance Systems in Production Processes of the Textile Industry: Determination of Operator-Critical Weaving Machine Components for AR-Prototype Development
Marco Saggiomo, Mario Loehrner, Daniel Kerpen, Jacqueline Lemm, Yves-Simon Gloy

CL 19
Garden Isle 2
Wednesday, 4:00 - 5:30 pm

Judging the Desirability and Acceptance of Assistance Systems for the Elderly - Lessons Learned with a Fieldwork Approach
Thomas Birken, Helga Pelizäus-Hoffmeister, Petra Schweiger

Andreas Bæchler, Liane Bæchler, Sven Autenrieth, Peter Kurtz, Thomas Hoerz, Thomas Heidenreich, Georg Kruell

A Framework for Selecting and Optimizing Color Scheme in Web Design
Kevin Ferris, Xuesong (Sonya) Zhang

** Best Paper Nomination
Human-Computer Interaction:
Information Design Utilizing Behavioral, Neurophysiological, and Design Science Methods
Minitrack Chairs: Christoph Schneider, Joe Valacich, Angelika Dimoka

**CL 20**

Grand Ballroom 7

Thursday, 8:00 - 9:30 am

Understanding the Impact of Interruptions on Knowledge Work: An Exploratory Neuroimaging Study
Pankush Kalgotra, Ramesh Sharda, Roger McHaney

Reading a Newspaper on Print versus Screen: A Motivational Perspective
Dorina Rajanen, Mikko Salminen, Niklas Ravaja

Fixation Patterns During Process Model Creation: Initial Steps Toward Neuro-adaptive Process Modeling Environments
Barbara Weber, Jakob Pinggera, Manuel Neurauter, Stefan Zugal, Markus Martini, Marco Furtner, Pierre Sachse, Daniel Schnitzer

**CL 21**

Grand Ballroom 7

Thursday, 10:00 - 11:30 am

Social Viewing, Bullet Screen, & User Experience: A First Look
Soussan Djamasi, Adrienne Hall-Phillips, Zaozao Liu, Wenting Li, Jing Bian

How to Design Interfaces for Product Recommendation Agents to Influence the Purchase of Environmentally-Friendly Products
Tian Yu, Izak Benbasat, Ronald T. Cenfetelli

Colors and Trust: The Influence of User Interface Design on Trust and Reciprocity
Florian Hawlitschek, Lars-Erik Jansen, Ewa Lux, Timm Teubner, Christof Weinhardt

**CL 22**

Grand Ballroom 7

Thursday, 2:00 - 3:30 pm

Visual Representation of Information as an Antecedent of Perceptive Efficiency: The Effect of Experience
Lisa Falschlunger, Othmar Lehner, Horst Treiblmaier, Christoph Eisl

Hands that Speak: An Integrated Approach to Studying Complex Human Communicative Body Movements
Nadir Weibel, So-One Hwang, Steven Rick, Erfan Sayyari, Dan Lenzen, Jim Hollan

Serious Games: An Evaluation Framework and Case Study
David W. Wilson, Jeff Jenkins, Nathan Twyman, Matthew Jensen, Joe Valacich, Norah Dunbar, Scott Wilson, Claude Miller, Bradly Adame, Yu-Hao Lee, Judee Burgoon, Jay F. Nunamaker

**IT Enabled Collaboration in Developing Countries**

Minitrack Chairs: Xusen Cheng, Xiangbin Yan, Deepinder Bajwa

**CL 23**

Grand Ballroom 6

Thursday, 2:00 - 3:30 pm

OpenLabs - Open Source Microfactories Enhancing the FabLab Idea
Manuel Moritz, Tobias Redlich, Sonja Buxbaum-Conradi, Sissy-Ve Basmer-Birkenfeld, Babsile Daniel Osunyomi, Jens Wulfsberg, Pascal Krenz, Susanne Heubischl

Investigating Trust Factors in Global Virtual Collaboration: A Case Study of a Manufacturing Company in China
Xusen Cheng, Jianyue Liu, Jianqing Huang, Xiangbin Yan, Yajing Han

Promoting Health Behaviors with Help of Online Social Ties: An Exploratory Study
Yumei Li, Xiangbin Yan, Yong Tan

**Best Paper Nomination**
A Personality Matching-aided Approach for Supervisor Recommendation
Mingyu Zhang, Jianshan Sun, Jian Ma, Tailai Wu, Zhiying Liu

Research on Optimal Selection Strategy of Search Engine Keywords Based on Multi-armed Bandit
Juan Qin, Wei Qi, Baojian Zhou

**Diversified Recommendation Incorporating Item Content Information Based on MOEA/D
Jinkun Wang, Yezheng Liu, Jianshan Sun, Yuanchun Jiang, Chunhua Sun

**Mobility-enhanced Social Collaborations for Value Creation
Minitrack Chairs: Stephen Choi, Kun Chang Lee

Investigating the Influence of Offline Friendship on Twitter Networking Behaviors
Youngsoo Kim, Felicia Natali, Feida Zhu, Eepeng Lim

The Positive Spillover Effect of Mobile Social Games on App Literacy
Mi Hyun Lee, Sang Pil Han, Sungho Park, Wonseok Oh

**Processes and Technologies for Small and Large Team Collaboration
Minitrack Chairs: Doug Derrick, Imed Boughzala, Christopher B.R. Diller

**A Goal-oriented Approach for Designing Collaboration Processes
Bahar Ghadiri Bashardoost, Kelly Lyons, Rock Leung

Development of a Peer-Creation-Process to Leverage the Power of Collaborative Knowledge Transfer
Sarah Oeste-Reiß, Matthias Söllner, Jan Marco Leimeister

Advancing Collaboration Engineering: New ThinkLets for Dyadic Problem Solving and an Application for Mobile Advisory Services
Gerhard Schwabe, Robert O. Briggs, Tobias Giesbrecht

Supporting Organizational Sensemaking with Collaboration Engineering
Sami Jantunen, Tapio Koivisto

A Survey on Volunteer Management Systems
Johannes Schönböck, Markus Raab, Josef Altmann, Elisabeth Kapsammer, Angelika Kusel, Birgit Pröll, Werner Retschitzegger, Wieland Schwinger

An Investigation of Problem Formulation Comprehensiveness on Solution Novelty and Elegance in Team Collaboration
Leif Lundmark, Douglas C. Derrick, John D. Crowe, Margaret Lunn, Gina S. Ligon

** Best Paper Nomination
Serious Games, Gamification and Innovation
Minitrack Chairs: Imed Boughzala, Hélène Michel

CL 28  Garden Isle 5  Friday, 3:00 - 4:30 pm

Questlab: A Web-Framework for Gamification of Seminars
Oliver Hanraths, Anja Wintermeyer, Kathrin Knautz

Increasing the Creative Output at the Fuzzy Front End of Innovation – A Concept for a Gamified Internal Enterprise Ideation Platform
Eric Zimmerling, Patrick J. Höflinger, Philipp Sandner, Isabell M. Welpe

Improving Decision Making Skills through Business Simulation Gaming and Expert Systems
Alexander Fuchsberger

Characterizing Serious Games Implementation’s Strategies: Is Higher Education the New Playground of Serious Games?
Hélène Michel

Social and Psychological Perspectives in Collaboration Research
Minitrack Chairs: Gert-Jande Vreede, Triparna de Vreede

CL 29  Garden Isle 5  Wednesday, 8:00 - 9:30 am

**A Systematic Literature Review on the Relation of Information Technology and Information Overload
Nikolai Sobotta

How E-Mail Threads Contribute to E-Mail Overload: Investigating Intrinsic, Extraneous, and Germane Cognitive Load
Nikolai Sobotta

Philosophy of Collaboration
Nils Randrup, Douglas Druckenmiller, Robert O. Briggs

CL 30  Garden Isle 5  Wednesday, 10:00 - 11:30 am

Measurement and Outcomes of Identity Communication in Virtual Teams
Susan A. Brown, Sherry M. B. Thatcher, David W. Wilson

How IT-artifacts Disturb Advice Giving – Insights From Analyzing Implicit Communication
Mehmet Kılıc, Mateusz Dolata, Gerhard Schwabe

CL 31: Social Media and e-Business Transformation
Minitrack Chairs: Christy Cheung, Matthew K. O. Lee, Christian Wagner

CL 31  Kauai 1  Thursday, 2:00 - 3:30 pm

**Measuring the Perceived Functional Affordances of Collaborative Innovation Networks in Social Product Development
Kaveh Abhari, Elizabeth J. Davidson, Bo Xiao

Do Others’ Opinion Matter? Investigating the Impact of Gender Differences on Trustworthiness of e-WOM
Fei Liu, Bo Xiao, Eric T.K. Lim, Chee-Wee Tan

** Best Paper Nomination
Moving On: Predicting Continuance Intention on Social Networking Sites through Alternative Products
Christopher Sibona, Judy Scott

CL 32 Kauai 1 Thursday, 4:00 - 5:30 pm
Understanding the Factors Influencing the Online Group Buying Behavior from a Pull-Push Perspective
Yongqiang Sun, Xiao-Liang Shen, Nan Wang

Group Bundling versus Traditional Bundling in e-Commerce: A Field Experiment
Ahmed Doha, Maryam Ghasemaghaei, Khaled Hassanein

Technology Mediated Collaborations in e-Health
Minitrack Chairs: Souren Paul, Arkalgud Ramaprasad, Nilmini Wickramasinghe

CL 33 Kauai 6 Wednesday, 4:00 - 5:30 pm
Fangjian Gao, Scott Thiebes, Ali Sunyaev

The Application of Activity Theory to Explain Collaborative Technology Use in Healthcare: The Case of a Chemotherapy Ordering System
Jana Riechert, Carolin Durst, Nilmini Wickramasinghe

Balancing Priorities: A Field Study of Coordination in Distributed Elder Care
Troels Mønsted, Andreas Kaas Johansen, Frederik Lauridsen, Vlad Manea, Konstantin Slavin-Borovskij

An Ontological Health Cluster Framework
Keith Toh, Margaret Heffernan, Vass Karpathiou, Arkalgud Ramaprasad, Nilmini Wickramasinge

** Best Paper Nomination