



## Best Paper Nominations

This list is all the nominations submitted to the HICSS office to date; if there are additional nominations to be considered they will be posted on the bulletin board and/or at the room site. Please see the online schedule and/or printed program for presentation times.

### COLLABORATION SYSTEMS AND TECHNOLOGY

#### [Advances in Teaching and Learning Technologies](#)

Pedagogical Architecture – Internet Artifacts For Bilingualism of the Deaf (Sign Language/Portuguese)

*Cayley Guimarães, Diego R. Antunes, Laura S. García, Leticia M. Peres, and Sueli Fernandes*

#### [Cognitive Perspectives on Collaboration](#)

Why Shared Understanding Matters - Engineering a Collaboration Process for Shared Understanding to Improve Collaboration Effectiveness in Heterogeneous Teams

*Eva Alice Christiane Bittner and Jan Marco Leimeister*

#### [Communication and Information Systems Technology for Emergency Management](#)

An Ontology-based Framework for Real-Time Collection and Visualization of Mobile Field Triage Data in Mass Gatherings

*Prem Prakash Jayaraman, Kutila Gunasekera, Pari Delir Haghighi, Frada Burstein, and Arkady Zaslavsky*

Crowd Models for Emergency Evacuation: A Review Targeting Human-Centered Sensing

*Jaziar Radianti, Ole-Christoffer Granmo, Nouredine Bouhmala, Parvaneh Sarshar, Anis Yazidi, and Jose J. Gonzalez*

#### [Creativity and Innovation in Teams and Organizations](#)

Creative Virtual Environments: Effect of Supraliminal Priming on Team Brainstorming

*Akshay Bhagwatwar, Anne Massey, and Alan Dennis*

#### [Cross-Organizational and Cross-Border IS/IT Collaboration](#)

Ecology of Games and Translation Processes in Internet and Computer Networks: A New Perspective to Understand Power and Communicative Dynamics between Organizations

*Aljona Zorina and William Dutton*

#### [Human-Computer Interaction: Informing Design Choices Utilizing Behavioral, Neurophysiological, and Design Science Methods](#)

Supporting Dynamic Situation Awareness in Online Group Discussion and Decision Making: A Visualization Approach

*Jia Li, Dongsong Zhang, and Pengzhu Zhang*

#### Intelligent Collaboration Support Systems

Decision Enhancement for Sourcing with Shared Service Centres in the Dutch Government

*A.J. Knol, H.G. Sol, and J.P. van Wamelen*

#### Negotiation Support Systems (NSS)

Automated Bilateral Multiple-issue Negotiation with No Information About Opponent

*Ronghuo Zheng, Nilanjan Chakraborty, Tinglong Dai, Katia Sycara, and Michael Lewis*

#### Processes and Technologies for Small and Large Team Collaboration

Technology Role in Turbulent Teams: An Analytical Model and Empirical Validation

*Tayfun Keskin and Nazim Taskin*

#### Social & Psychological Perspectives in Collaboration Research

Critical Thinking of Crowd: Towards A Social-Technological System that Inactivate False Rumors

*Yuko Tanaka, Yasuaki Sakamoto, and Toshihiko Matsuka*

#### Social Media and e-Business Transformation

Foundations for Investigating the Drivers of the Value Captured by Consumers Embedded Within Social Shopping Networks

*Camille Grange and Izak Benbasat*

#### Technology Mediated Collaborations in Healthcare

Collaborating through Social Media to Create Health Awareness

*Liette Lapointe, Jui Ramaprasad, and Isabelle Vedel*

#### Working and Gaming in 3D Virtual Environments

Training Cultural Awareness in Military Operations in a Virtual Afghan Village: Some Aspects of Scenario Development

*Ekaterina Prasolova-Forland, Mikhail Fominykh, and Ramin Darisiro*

## **DECISION ANALYTICS**

#### Analytics, Informatics, and Decision Support for Sustainability

The Effects of Green on IT/S Projects: Recycling the Garbage Can Model  
*Keith Rogers, Tracy Jenkin, Jacqueline Corbett, and Jane Webster*

#### Cloud Service Science & Systems

What are Consumers' Preferences on Platform as a Service? – An Empirical Investigation  
*Andrea Giessmann and Katarina Stanoevska-Slabeva*

#### Intelligent Decision Support for Logistics and Supply Chain Management

Modeling Economies of Scale in Transportation Hub Networks  
*James Campbell*

#### Multi-criteria Decision Support

Improving Decision Support for Software Component Selection through Systematic Cross-referencing and Analysis of Multiple Decision Criteria  
*Christoph Becker, Michael Kraxner, Markus Plangg, and Andreas Rauber*

#### Network DSS: Decision Support in the Collaborative Environment of Mobile Social and Sensor Networks

A Conceptual Model for Network DSS  
*Alex Bordetsky and Dan Dolk*

#### Open Data Services

Standards-Based Delivery of Multi-Contextual Services: On the Institutional Ambiguity Tension  
*Rikard Lindgren, Owen Eriksson, and Kalle Lyytinen*

#### Predictive Analytics and Big Data

Reading All the News at the Same Time: Predicting Mid-term Stock Price Developments Based on News Momentum  
*Michael Hagenau, Matthias Hauser, Michael Liebmann, and Dirk Neumann*

#### Telecommunications Analytics and Economics

Multilayer Two-sided Platforms: The Role of Exclusive Contracts  
*Frank MacCrory and Shivendu Shivendu*

## **DIGITAL MEDIA**

#### Decision Support and Operational Management Analytics

Simulation-based Visual Layout Planning in Advanced Manufacturing

*Michael Wörner and Thomas Ertl*

#### Information Access & Usability

A Novel Approach for Personalized Article Recommendation in Online Scientific Communities

*Jianshan Sun, Jian Ma, Xiaoyan Liu, Zhiying Liu, Gang Wang, and Hongbing Jiang*

#### Social Media and Data Analytics

Mining Points-of-Interest Association Rules from Geo-tagged Photos

*Ickjai Lee, Guochen Cai, and Kyungmi Lee*

### **E-GOVERNMENT**

#### Cloud Services and Interoperability

Organizational Requirements for Building up National e-Government Infrastructures in Federal Settings

*Marianne Fraefel, Thomas Selzam, and Reinhard Riedl*

#### E-Government Education

Landscaping Government Chief Information Officer Education

*Elsa Estevez and Tomasz Janowski*

#### Emerging Topics

Exploring the Influence of Contextual Distances on Transnational Public Sector Knowledge Networks: A Comparative Study of AIRNow-I Shanghai and the Hajj-MDSS Initiatives

*Mohammed Gharawi and Sharon Dawes*

#### Infrastructure Security

Risk Assessment Methodology Based on the NISTIR 7628 Guidelines

*Robert Abercrombie, Frederick Sheldon, Katie Hauser, Margaret Lantz, and Ali Mili*

#### Open Government and Participation

Swiss Executive Authorities on Open Government Data – Policy Making beyond Transparency and Participation

*Alessia C. Neuron, Reinhard Riedl, and Jérôme Brugger*

#### Social Media and Social Networking

Perspective Matters: Sharing of Crisis Information in Social Media

*Rongjuan Chen and Yasuaki Sakamoto*

## Transformational Government

Benefits Realization in eGovernment: Institutional Entrepreneurship or Just Hype?

*Leif Skiftenes Flak and Hans Solli-Sæther*

## **ELECTRIC ENERGY SYSTEMS**

### Engineering and Economics Interactions

Mapping Energy Futures Using the SuperOPF Planning Tool: An Integrated Engineering, Economic and Environmental Model

*John Taber, Dan Shawhan, Ray Zimmerman, William Schulze, Richard Schuler, Charles Marquet, Ke 'Max' Zhang, and Stephen Whitley*

### Engineering Resilient Networks

Linearized Power Flow Equations Based Predictive Control of Transmission Voltages

*Mahdi Hajian, William (Bill) Rosehart, Mevludin Glavic, and Thierry Van Cutsem*

### Monitoring, Control and Protection

On Computing Power System Loading Margins Using Synchrophasor Data

*Karl Reinhard, Peter Sauer, and Alejandro Dominguez-Garcia*

### Integrating Distributed and Renewable Resources

Dynamic Simulation Study of the Frequency Response of the Western Interconnection with Increased Wind Generation

*Peter Mackin, Ron Daschmans, Ben Williams, Brian Haney, Randall Hunt, Jeffrey Ellis, and Joe Eto*

## **INFORMATION TECHNOLOGY IN HEALTHCARE**

### Data Analysis and Visualization in Biomedical Informatics

Optimize Querying of LOINC® with an Ontology: Give Me the Chlamydia Tests the Epidemiologists Want Me to Use!

*Karen Eilbeck, Jason Jacobs, and Catherine Staes*

### HCI and Consumer Health Informatics

Creating Consumer Friendly Health Content: Implementing and Testing a Readability Diagnosis and Enhancement Tool

*Joshua Proulx, Brent Hill, and Qing Zeng-Treitler*

## IT Adoption and Evaluation in Healthcare

Physician Reactions to Healthcare IT: An Activity-Theoretic Analysis

*Anol Bhattacharjee, Christopher Davis, and Neset Hikmet*

The Status of EMR Adoption in University Psychology Clinics

*Leigh Cellucci, Tony Cellucci, Marina Stanton, Daniel Kerrigan, and Mary Madrake*

## IT Architectures and Applications in Healthcare Environments

Transition Discovery of Sequential Behaviors in Email Application Usage Using Hidden Markov Models

*William Robinson, Arash Akhlaghi, and Tianjie Deng*

## IT Innovation for Change in Healthcare

Towards Next Generation Health Data Exploration: A Data Cube-based Investigation into Population Statistics for Tobacco

*James P. McCusker, Abdul Shaikh, Noshir Contractor, Paul Courtney, Jeongmin Lee, Glen Morgan, Zaria Tatalovich, Chavon Thomas, and Deborah L. McGuinness*

An mHealth Recommender for Smoking Cessation using Case Based Reasoning

*Koel Ghorai, Aishwarya Bakshi, Sourav Saha, Ambuj Mahanti, and Pradeep Ray*

## **INTERNET AND THE DIGITAL ECONOMY**

### Electronic Marketing

Measuring Effects of Observational Learning and Social-Network Word-of-Mouth (WOM) on the Sales of Daily-Deal Vouchers

*Xitong Li and Lynn Wu*

### Learning Analytics and Networked Learning

The Dynamics of Open, Peer-to-Peer Learning: What Factors Influence Participation in the P2P University?

*June Ahn, Cindy Weng, and Brian Butler*

### Open Movements: FLOSS, Open Contents, Open Access and Open Communities

Gendered Patterns of Politeness in Free/Libre Open Source Software Development

*Eunyoung Moon*

### Personalization, Privacy and Identity Disclosure in Virtual Society

Privacy Settings in Online Social Networks - Preferences, Perception, and Reality

*Michael Netter, Moritz Riesner, Michael Weber, and Günther Pernul*

## Social Networking and Communities

Factors Affecting Individuals' Flaming in Virtual Communities

*Ayoung Suh and Christian Wagner*

## Technologically Mediated Relationship Creation and Maintenance

To Love, Honor, and Inform from This Site Forward: A Model of Dyadic Information Behavior in Online-initiated Relationships

*Gina Kessler, Karen Fisher, and Ekaterini Papadopoulou*

## **KNOWLEDGE SYSTEMS**

### Designing and Deploying Next Generation Knowledge Systems and Knowledge Intensive Business Processes

Knowledge-Intensive Healthcare Processes: Rethinking Business Process Ownership

*Olivera Marjanovic*

### Knowledge Flows, Transfer Sharing and Exchange

Governing Individual Learning in the Transition Phase of Software Maintenance Offshoring: A Dynamic Perspective

*Oliver Krancher and Sandra Slaughter*

### Knowledge Management Value, Success and Performance Measurements" minitrack

The Impacts of the Cognitive Nature of the Task and Psychological Empowerment on an Individual's Knowledge Creation, Sharing, and Application

*Shahnawaz Muhammed, William Doll, Xiaodong Deng*

### Strategic Knowledge Management for Innovation and for Organizational Agility

Knowledge Management to Support Systematic Innovation Capability

*Marianne Gloet and Daniel Samson*

## **ORGANIZATIONAL SYSTEMS AND TECHNOLOGY**

### Business Analytics, Business Intelligence and Big Data

Understanding Information System Agility – The Example of Business Intelligence

*Tobias Knabke and Sebastian Olbrich*

### Communication and Social Networks

Strategic Management of Other-Provided Information Online: Personality and Network Variables

*Jian Rui and Michael Stefanone*

#### Competitive Strategy, Economics and IS

Information Exchange in Prediction Markets: Do Social Networks Promote Forecast Efficiency?

*Liangfei Qiu, Huaxia Rui, and Andrew Whinston*

#### Information Issues in Supply Chain and in Service System Design

Optimizing Physician Processing Rates with Priority Queues

*Balaraman Rajan, Avi Seidmann, and Ray Dorsey*

#### IT and Project Management

Understanding the Nature of Use Regarding System Development and Management Methodologies - Using Psychoanalysis to Understand the Influences of Methodology Attributes

*Kunal Mohan, Ahlemann Frederik, and Maurice Kügler*

#### Organizational and Social Dynamics in Information Technology

Relationship among Information Department ‘Technicians’ Performance Influencing Factors in Taiwan Public and Private Colleges

*Pei-Hsuan Hsieh and Chun-You Chou*

Technology Trust: From Antecedents to Perceived Performance Effects

*Hannu Kivijärvi, Petri Hallikainen, and Aksell Leppänen*

#### Theoretical Approaches to IS Research

A Meta-theoretic Approach to Theory Integration in Information Systems

*Dirk S. Hovorka, Kai Larsen, James Birt, and Gavin Finnie*

### **SOFTWARE TECHNOLOGY**

#### Agile and Lean Software Engineering

Designing and Managing Agile Informative Workspaces: Discovering and Exploring Patterns

*Renan Oliveira, Alfredo Goldman, and Claudia Melo*

*Change-Impact Driven Agile Architecting*

*Jessica Díaz, Jennifer Pérez, and Juan Garbajosa*

#### Agile/Lean Startup Organizations



Using Agile to Create Economic Value for Society  
*Stephen Cohen and William Money*

### Secure Cloud Computing

Preliminary Requirements on Trusted Third Parties for Service Transactions in Cloud Environments  
*Katerina Stamou, Jocelyn Aubert, Benjamin Gateau, and Jean-Henry Morin*

### Software Cybersecurity Assurance and Testing

Effort Estimates on Web Application Vulnerability Discovery  
*Hannes Holm, Mathias Ekstedt, and Teodor Sommestad*

### Software Product Lines: Engineering, Services, and Management

Supporting Variability Management in Architecture Design and Implementation  
*Iris Groher and Rainer Weinreich*