Program for HICSS – 41
January 8 - 10, 2008
(Tuesday-Wednesday-Thursday)

Best Paper Nominations

Collaboration Systems and Technologies Track
Co-Chairs: Jay F. Nunamaker Jr. and Robert O. Briggs

Advances in Teaching and Learning Technologies
Co-Chairs: Eric L. Santanen and David H. Spencer

CL 1   Wednesday; Queen’s 6; 8:00 – 9:30

Understanding the Roles of Knowledge Sharing and Trust in Online Learning Communities
Brian Thoms, Nathan Garrett, Jesus Canelon Herrera, and Terry Ryan

The Power of “We”: Using Instant Messaging for Student Group Project Discussion
Aaron X.L. Shen, Christy M.K. Cheung, Matthew K.O. Lee, and WeiPing Wang

Can Peer-to-Peer Networks Facilitate Information Sharing in Collaborative Learning?
Fu-ren Lin, Sheng-cheng Lin, and Ying-fen Wang

CL 2   Wednesday; Queen’s 6; 10:00 – 11:30

Support of Case-Based Authentic Learning Activities: A Collaborative Case Commenting Tool and a Collaborative Case Builder
Lu Xiao, John M. Carroll, Pat Clemson, and Mary Beth Rosson

Engaging E-Learning in Virtual Worlds: Supporting Group Collaboration
Katherine G. Franceschi, Ronald M. Lee, and David Hinds

Collaboration Issues in Cross-Organizational and Cross-Border IS/IT
Co-Chairs: Nicholas C. Romano Jr., James B. Pick, and Narcyz Roztocki

CL 3   Tuesday; Kona 3; 8:00 – 9:30

A Dyadic Model of Interorganizational Systems (IOS) Adoption Maturity
Mazen Ali, Sherah Kurnia, and Robert B. Johnston

The Impact of Cultural Diversity on Global Virtual Team Collaboration—A Social Identity Perspective
Yu-Ting Caisy Hung and Mary Thi Thao Duyen Nguyen
Interorganizational Collaboration in Supply Chain Management: What Drives Firms to Share Information with Their Trading Partners?
Maria Madlberger

CL 4  Tuesday; Kona 3; 10:00 – 11:30

Determinants of IT Outsourcing Relationships: A Conceptual Model
Stefan Blumenberg, Daniel Beimborn, and Wolfgang Koenig

A Cross-Cultural Investigation of the Goal-Attainment-Likelihood Construct and Its Effect on Satisfaction with Technology Supported Collaboration
Bruce A. Reinig, Robert O. Briggs, and Gert-Jan de Vreede

Occurrence and Effects of Leader Delegation in Virtual Teams
Suling Zhang, Marilyn Tremaine, Richard Egan, Allen Milewski, Linda Plotnick, Patrick O’Sullivan, and Jerry Fjermestad

Designing Collaboration Processes and Systems
Co-Chairs: Gert-Jan de Vreede, Robert O. Briggs, and Gwendolyn L. Kolfschoten

CL 5  Thursday; Kona 5; 8:00 – 9:30

A Prototype System for Exploring Disagreement in Group Decision
Paulo Melo and João Paulo Costa

Best Practices for International eSourcing of Software Products and Services
Timo Käkölä

Changing Large-Scale Collaborative Spaces: Strategies and Challenges
Torstein Hjelle and Gasparas Jarulaitis

CL 6  Tuesday; Kona 5; 10:00 – 11:30

Developing a Workflow Design Framework Based on Dataflow Analysis
Sherry X. Sun and J. Leon Zhao

Participant-Driven Collaborative Convergence
Joel H. Helquist, John Kruse, and Mark Adkins

Role Separation in Strategies for Collaboration Support
Gwendolyn L. Kolfschoten, Fred Niederman, Robert O. Briggs, and Gert-Jan de Vreede

CL 7  Tuesday; Kona 5; 1:00 – 2:30

The Organizing Pattern of Interaction: A Knowledge Centric Approach
Douglas A. Druckenmiller
Virtual Communities for Innovations: Users’ Requirements for the Development of an Academic SAP User Group
Winfried Ebner, Ulrich Bretschneider, Marco Leimeister, and Helmut Krcmar

WikiWinWin: A Wiki Based System for Collaborative Requirements Negotiation
Da Yang, Di Wu, Supannika Koolmanojwong, A. Winsor Brown, and Barry W. Boehm

Emergency Response Systems
Co-Chairs: Tung X. Bui, Murray Turoff, and Bartel Van de Walle

CL 8 Thursday; Kona 4; 8:00 – 9:30
A Decision Analysis Framework for Emergency Notification
Zhengchuan Xu, Yufei Yuan, and Shaobo Ji

Design and Development of a Virtual Emergency Operations Center for Disaster Management Research, Training, and Discovery
Irma Becerra-Fernández, Greg Madey, Michael Prietula, Domingo Rodríguez, Ricardo Valerdi, and Timothy Wright

Coordination and Its ICT support in Crisis Response: Confronting the Information-Processing View of Coordination with a Case Study
Rafael A. Gonzalez

CL 9 Thursday; Kona 4; 1:00 – 2:30
(Jointly with Negotiation Support Systems)

Leadership Roles and Communication Issues in Partially Distributed Emergency Response Software Development Teams: A Pilot Study
Linda Plotnick, Rosalie Ocker, Starr Hiltz, and Mary Beth Rosson

Human-Computer Interaction (HCI)
Co-Chairs: Joseph S. Valacich and John D. Wells

CL 10 Wednesday; King’s 1; 10:00 – 11:30
Online Purchasing of Simple Retail Goods: The Impact of e-Service Quality as Provided by Electronic Commerce Functionalities
Pierre Hadaya and Jean Éthier

A Conceptual Model of Wiki Technology Diffusion
Andrea J. Hester and Judy E. Scott

Online Services, Customer Characteristics and Usability Requirements
Anne P. Massey, Vijay Khatrim, and Mitzi M. Montoya-Weiss
Using Surprise in Human-Computer Interfaces to Enhance Knowledge Communication Effectiveness
*Ned Kock, Ruth Chatelain-Jardón, and Jesus Carmona*

An Empirical Investigation of the Roles of Outcome Controls and Psychological Factors in Collaboration Technology Supported Virtual Teams
*Fang He and Souren Paul*

Generating an Abstract User Interface from a Discourse Model Inspired by Human Communication
*Cristian Bogdan, Jüergen Falb, Hermann Kaindl, Sevan Kavaldjian, Roman Popp, Helmut Horacek, Edin Arnaoutovic, and Alexander Szep*

Quantitative Early-Phase User Research Methods: Hard Data for Initial Product Design
*Christopher N. Chapman, Edwin Love, and James L. Alford*

Some Implications of Comparing Brain and Computer Processing
*Brian Whitworth*

HCI Research Tutorial
*Joseph S. Valacich and John D. Wells*

**Measuring Collaborative Technologies and Processes**
*Co-Chairs: Bruce Reinig, John Murphy, and Alanah Davis*

Effective Use of Collaborative IT Tools: Nature, Antecedents, and Consequences
*Paul A. Pavlou, Angelika Dimoka, and Thomas J. Housel*

Exploring the Concept of Para Social Presence in Virtual Project Teams
*Eric T.K. Lim and Yu-Ting Caisy Hung*

An Interview Protocol for Discovering and Assessing Collaboration Engineering Opportunities
*Robert O. Briggs, Alanah J. Davis, and John D. Murphy*
Mobile Technologies and Collaboration
Co-Chairs: Joseph S. Valacich and Clayton A. Looney

CL 14 Wednesday; Kona 3; 8:00 – 9:30

A Mobile System and Application for Facilitating Emotional Awareness in Knowledge Work Teams
Timo Saari, Kari Kallinen, Mikko Salminen, Niklas Ravaja, and Kliment Yanev

Technology’s Transformative Effects on When, Where and How Individuals Work: A Grounded-Narrative Approach
David J. Pauleen and Brian M. Harmer

M-Fieldwork for Information Systems Students
Laurel Evelyn Dyson, Elaine Lawrence, Andrew Litchfield, and Agnieszka Zmijewska

CL 15 Wednesday; Kona 3; 10:00 – 11:30

Place as Adoption Moderating Factor—Usage Implications for Mobile Data Services
Homer Papadopoulos

Mobile Advertising in Different Stages of Development: A Cross-Country Comparison of Consumer Attitudes
Parissa Haghirian, Maria Madlberger, and Akihiro Inoue

Smartphones Enabling Mobile Collaboration
Bettina Beurer-Zuellig and Miriam Meckel

Negotiation Support Systems
Co-Chairs: Tung X. Bui and Melvin F. Shakun

CL 16 Thursday; Kona 4; 10:00 – 11:30

Bidder Valuation of Bundles in Combinatorial Auctions
Soumyakanti Chakraborty, Anup Kumar Sen, and Amitava Bagchi

Situated Decision Support for Managing Service Level Agreement Negotiations
Rustam Vahidov and Dirk Neumann

Preparing a Negotiated R&D Portfolio with a Prediction Market
Cédric Gaspoz and Yves Pigneur

CL 17 Thursday; Kona 4; 1:00 – 2:30
What Happened to Cross-Cultural Dyadic E-Negotiation?
Hsiangchu Lai, Wan-Jung Lin, and Juin-Yi Lin

The Impact of Cognitive Styles on Users’ Future Intention to Use E-Negotiation Systems
Her-Sen Doong and Hui-Chih Wang

Social Networks and Collaboration
Co-Chairs: Harri Oinas-Kukkonen, Andrew B. Hargadon, and Donald F. Steiny

CL 18 Wednesday; Queen’s 4; 1:00 – 2:30

How Does Collaborative Group Technology Influence Social Network Structure?
Mark Keith, Haluk Demirkan, and Michael Goul

Distributed Innovation in Classes of Networks
Youngjin Yoo, Kalle Lyytinen, and Richard J. Boland Jr.

Cooperation and Coordination in Decentralized Communication Networks
Devan Rosen

CL 19 Wednesday; Queen’s 4; 3:00 – 4:30

Social Network Analysis as a Tool to Evaluate the Effectiveness of EC Funded Networks of Excellence: The Case of DEMO-net
Kathy Buckner and Peter Cruickshank

The Effect of Internet Usage on Interpersonal Relationships: A Case Study
Susan Bastani and Maryam Fazel-Zarandi
Decision Technologies and Service Sciences Track
Chair: Daniel R. Dolk

Agent Technology, Intelligent Systems and Soft Computing in Management Systems
Chair: Christer Carlsson

DT 1  Wednesday; Waikoloa 3; 2:00 – 3:30

A Cyc-Based Multi-agent System
Jingwen He, Hokyin Lai, and Huaiqing Wang

A Genetic Algorithm for the Two Machine Flow Shop Problem
Kumar Adusumilli, Doina Bein, and Wolfgang Bein

Urban Traffic Signal Control Based on Distributed Constraint Satisfaction
Kazunori Mizuno, Yukio Fukui, and Seiichi Nishihara

Intelligent Decision Support for Logistics and Supply Chain Management
Co-Chairs: Andreas Fink, Hans-Jürgen Sebastian, and Stefan Voß

DT 2  Wednesday; King’s 3; 8:00 – 9:30

A Two-Level Parallel Genetic Algorithm for the Uncapacitated Warehouse Location Problem
Jörg Homberger and Hermann Gehring

The Economic Production Quantity Problem with a Finite Production Rate and Fuzzy Cycle Time
Kaj-Mikael Björk

An Optimal Decision Making Model for Supplier and Buyer’s Win-Win Strategy in a Two Echelon Supply Chain
Geon Cho, Soon-Hoo So, Jae Jon Kim, Yi Sook Park, Hyong Ho Park, Kyung Ho Jung, and Choon-Sup Noh

DT 3  Wednesday; King’s 3; 10:00 – 11:30

Consensual Dynamics in Group Decision Making with Triangular Fuzzy Numbers
Mario Fedrizzi, Michele Fedrizzi, Ricardo Alberto Marques Pereira, and Matteo Brunelli

Decision-Guidance Management Systems (DGMS): Seamless Integration of Data Acquisition, Learning, Prediction and Optimization
Alexander Brodsky and X. Sean Wang
Development and Evaluation of an Intelligent Fleet Management System for City Logistics
Vasileios Zeimpekis, George M. Giaglis, and Ioannis Minis

DT 4 Wednesday; King’s 3; 2:00 – 3:30

Combining RFID Technology and Business Intelligence for Supply Chain Optimization—Scenarios for Retail Logistics
Henning Baars, Hans-Georg Kemper, Heiner Lasi, and Marc Siegel

Service Composition Language to Unify Simulation and Optimization of Supply Chains
Alexander Brodsky, Malak Al-Nory, and Hadon Nash

Knowledge Discovery for Managerial Decision Support
Co-Chairs: Dursun Delen and David L. Olson

DT 5 Tuesday; Waikoloa 3; 8:00 – 9:30

Intelligence Database Creation and Analysis: Network-Based Text Analysis versus Human Cognition
John M. Graham, Kathleen M. Carley, and Drew Cukor

Organization-Ontology Based Framework for Implementing the Business Understanding Phase of Data Mining Projects
Sumana Sharma and Kweku-Muata Osei-Bryson

A Case Study of Core Vector Machines in Corporate Data Mining
Stefan Lessmann, Ning Li, and Stefan Voss

DT 6 Tuesday; Waikoloa 3; 10:00 – 11:30

Toward a Comprehensive Model in Internet Auction Fraud Detection
Bin Zhang, Yi Zhou, and Christos Faloutsos

Exploration of Feature Selection and Advanced Classification Models for High-Stakes Deception Detection
Christie M. Fuller, David P. Biros, and Dursun Delen
**Mobile Commerce and Value Services**

*Co-Chairs: Christer Carlsson, Matti Rossi, Virpi Kristiina Tuunainen, and Pirkko Walden*

**DT 7**    **Tuesday; Kona 3; 2:00 – 3:30**

- Investigation of Factors That Have Impacts on Usage Increase and Decrease of Mobile Data Service
  *Sang Hoon Lee, Bongsik Shin, and Ho Geun Lee*

Lost Opportunity—Why Has Dominant Design Failed to Emerge for the Mobile Payment Services Market in Finland?
*Tomi Dahlberg, Milla Huurros, and Antti Ainamo*

Are Mobile Payment and Banking the Killer Apps for Mobile Commerce?
*Xianpei Hu, Wenli Li, and Qing Hu*

**DT 8**    **Tuesday; Kona 3; 4:00 – 5:30**

Emergent Distributed Narratives in Spatiotemporal Mobility: An Exploratory Study on Mobile 2.0 Services
*Youngjin Yoo, Iis P. Tussyadiah, Daniel R. Fesenmaier, Timo Saari, and Ingvar Tjøstheim*

Making the Fun of Fishing Legal with Mobile Value Services
*Christer Carlsson, Arild Havnen, and Pirkko Walden*

**Operations Research Approaches to Service Sciences, Management and Engineering**

*Co-Chairs: Hans-Jürgen Sebastian and Dan Dolk*

**DT 9**    **Thursday; King’s 3; 8:00 – 9:30**

Global Optimization of Water Distribution Systems
*Kaj-Mikael Björk and Lazaros G. Papageorgiou*

- Optimizing the Supplier Selection and Service Portfolio of a SOA Service Integrator
  *Jan Christian Lang, Thomas Widjaja, Peter Buxmann, Wolfgang Domschke, and Thomas Hess*

Online Grocery Order Fulfillment Tradeoffs
*Judy E. Scott and Carlton H. Scott*

**DT 10**    **Thursday; King’s 3; 10:00 – 11:30**
Supply Chain Coordination Using Returns Policy with Sales Rebate and Penalty under Effort and Price Dependent Demand
Yong He, Lindu Zhao, and Ju He

Risk-Constrained Generation Asset Scheduling for Price-Takers in the Electricity Markets
Jianhui Wang

A Real-Options Approach to Modeling Investments in Competitive, Dynamic Retail Markets
Baabak Ashuri, William B. Rouse, and Douglas Bodner

Service Oriented Enterprise
Co-Chairs: Haluk Demirkan, Michael Goul, and Douglas Morse

DT 11 Tuesday; King’s 2; 8:00 – 9:30

A Semantic Web Services-Based Architecture for Model Management Systems
Amit V. Deokar and Omar F. El-Gayar

Integration Testing of Composite Applications
Liam Peyton, Bernard Stepień, and Pierre Seguin

Using k-Pricing for Penalty Calculation in Grid Market
Michael Becker, Nikolay Borrisov, Vikas Deora, Omer F. Rana, and Dirk Neumann

DT 12 Tuesday; King’s 2; 10:00 – 11:30

Business Process Modeling: A Service-Oriented Approach
Corine Cauvet and Gwladys Guzelian

Business-Oriented Development Methodology for IT Service Management
Kevin Jin and Pradeep Ray

Exploring Barriers to Innovation Diffusion in Health Care Service Organizations: An Issue for Effective Integration of Service Architecture and Information Technologies
Tugrul U. Daim, R. Tarcan Tarman, and Nuri Basoglu

DT 13 Tuesday; King’s 2; 2:00 – 3:30

Exploring the Service-Oriented Enterprise: Drawing Lessons from a Case Study
Marijn Janssen

Formal Foundation of Workflow Hyperpaths and a Graph Search Algorithm for Workflow Hyperpath Generation
Sinnakkrishnan Perumal and Ambuj Mahanti
Service Science Management and Engineering
Co-Chairs: Michael J. Shaw, Paul P. Maglio, and Fu-ren Lin

DT 14      Tuesday; King’s 1; 8:00 – 9:30

The Service System Is the Basic Abstraction of Service Science
Jim Spohrer, Stephen L. Vargo, Nathan Caswell, and Paul P. Maglio

Reference Models and Modeling Languages for Product-Service Systems—Status-Quo
and Perspectives for Further Research
Jörg Becker, Daniel Beverungen, and Ralf Knackstedt

Bridging the “Front Stage” and “Back Stage” in Service System Design
Robert J. Glushko and Lindsay Tabas

Toward a Ubiquitous Personalized Daily-Life Activity Recommendation Service with
Contextual Information: A Services Science Perspective
Chen-Ya Wang, Yueh-Hsun Wu, and Seng-Choo T. Chou

DT 15      Tuesday; King’s 1; 10:00 – 11:30

The Design of an Accountability Framework for Service Engineering
Kwei-Jay Lin

Using Process Models for the Design of Service-Oriented Architectures: Methodology
and E-Commerce Case Study
Oliver Thomas, Katrina Leyking, and Florian Dreifus

Towards a Framework for Evaluating Immersive Business Models: Evaluating Service
Innovations in Second Life
Henry M. Kim, Kelly Lyons, and Mary Ann Cunningham

DT 16      Tuesday; King’s 1; 2:00 – 3:30

The Critical Issues about Deploying RFID in Healthcare Industry by Service Perspective
Ching-Huan Kuo and Houn-Gee Chen

Collaborative Continuous Service Engineering: A Case Study in a Financial Service
Environment
Ryan Riordan, Benjamin Blau, Dirk Neumann, and Christof Weinhardt

A Lifecycle Approach towards Business Rules Management
Matthew L. Nelson, Robert L. Rariden, and Ravi Sen

Towards Service Engineering: Service Orientation and Business-IT Alignment
Hong-Mei Chen
DT 17	Tuesday; King’s 1; 4:00 – 5:30

Service-Oriented Resource Management
Jürgen Dorn and Hannes Werthner

Design of Service Systems under Variability: Research Issues
P.K. Kannan and João F. Proença

Service Systems as Customer-Intensive Systems and Its Implications for Service Science and Engineering
Claudio Pinhanez

Software Agents and Semantic Web Technologies
Co-Chairs: Thomas E. Potok, Mark T. Elmore, and Yu Jiao

DT 18	Wednesday; Waikoloa 3; 10:00 – 11:30

Evolution and Maintenance of SOA-Based Systems at SAS
Mira Kajko-Mattsson, Grace A. Lewis, and Dennis B. Smith

Formalizing the Role of Goals in the Development of Domain-Specific Ontological Frameworks
Faezeh Ensan and Weichang Du

Web-Based Service Exchange System for Agents and Humans Alike
Evens Jean, Machigar Ongtang, and Ali R. Hurson
**Digital Media: Content and Communication Track**

*Chair: Michael Shepherd*

**Digital Divide**

*Co-Chairs: Karine Barzilai-Nahon and Narcyz Roztocki*

**DM 1**  
*Tuesday; King’s 3; 2:00 – 3:30*

Transcending the Digital Divide: A Framing Analysis of Information and Communication Technologies News in Native American Tribal Newspapers  
*Sajda Qureshi and Teresa Trumbly-Lamsam*

Digital Usage Behavior: A Sense Making Perspective  
*James B. Freedman and John C. Henderson*

Factors Influencing Users’ Intentions to Make the Web Accessible to People with Disabilities  
*Karine Barzilai-Nahon, Izak Benbasat, and Nancy Lou*

**DM 2**  
*Tuesday; King’s 3; 4:00 – 5:30*

Understanding the Factors Influencing the Attitude Toward and the Use of Mobile Technology in Developing Countries: A Model of Cellular Phone Use in Guinea  
*Bangaly Kaba, Koffi N’Da, and Victor Mbarika*

Connecting Communities of Need with Public Health: Can SMS Text-Messaging Improve Outreach Communication?  
*Elizabeth Avery Gomez*

Rethinking the Digital Divide: Towards a Path of Digital Effectiveness  
*Corlane Barclay and Evan W. Duggan*

**Genres in Communication and Digital Documents**

*Co-Chairs: Kevin Crowston, Carina Ihlström Eriksson, and Tero Päivärinta*

**DM 3**  
*Tuesday; Kona 2; 10:00 – 11:30*

Using Visual Features for Fine-Grained Genre Classification of Web Pages  
*Ryan Levering, Michal Cutler, and Lei Yu*

Examining Variations of Prominent Features in Genre Classification  
*Yunhyong Kim and Seamus Ross*

*An Examination of Genre Attributes for Web Page Classification  
*Lei Dong, Carolyn Watters, Jack Duffy, and Michael Shepherd*
Information Retrieval and Search Effectiveness: Exploring New Perspectives
Co-Chairs: Ray Larson and Carolyn Watters

DM 4 Thursday; King’s 1; 8:00 – 9:30

Cross-Language Information Retrieval by Domain Restriction Using Web Directory Structure
Fuminori Kimura, Akira Maeda, Kenji Hatano, Jun Miyazaki, and Shunsuke Uemura

An Evaluation of How Search Engines Respond to Greek Language Queries
Efthimis N. Efthimiadis, Nicos Malevris, Apostolos Kousaridas, Alexandra Lepeniotou, and Nikos Loutas

Document Retrieval Using Proximity-Based Phrase Searching
Kathryn Patterson, Carolyn Watters, and Michael Shepherd

DM 5 Thursday; King’s 1; 10:00 – 11:30

Relationship between Uncertainty and Patterns of Pre-purchase Consumer Search in Electronic Markets
Theresa Lauraeus-Niinivaara, Timo Saarinen, Anne Sunikka, and Anssi Öörni

Video Content Description Using Fuzzy Spatio-temporal Relations
Archana M. Rajurkar, R.C. Joshi, and Santanu Chaudhary

Automatic New Topic Identification in Search Engine Transaction Logs Using Multiple Linear Regression
Seda Ozmutlu, H. Cenk Ozmutlu, and Amanda Spink

Knowledge Discovery
Chair: Mark T. Elmore

DM 6 Tuesday; Waikoloa 3; 4:00 – 5:30

A Context-Aware Approach Enhancing XML Semantics Integration
Dershing Luo and Ching-Cha Hsieh

On Structural Analysis of Large Networks
Nurcan Yuruk, Xiaowei Xu, and Thomas A. J. Schweiger
Persistent Conversation 9: Design and Analysis of CMC Systems
Co-Chairs: Thomas Erickson and Susan C. Herring

DM 7 Tuesday; Kona 4; 8:00 – 9:30

Television-Mediated Conversation: Coherence in Italian iTV SMS Chat
Asta Zelenkaukaite and Susan C. Herring

Cues to Deception in Online Chinese Groups
Lina Zhou and Yu-wei Sung

Communicators’ Perceptions of Social Presence as a Function of Avatar Realism in Small Display Mobile Communication Devices
Sin-Hwa Kang, James H.. Watt, and Sasi Kanth Ala

DM 8 Tuesday; Kona 4; 10:00 – 11:30

Social Exchange Online: Public Conversations in the Blogosphere
Michael A. Stefanone and Chyng-Yang Jang

Exploring the Corporate Blogosphere: A Taxonomy for Research and Practice
Nicholas S. Lockwood and Alan R. Dennis

Online Gestures: Icon Use by Fan Communities on LiveJournal
Claudia Rebaza

DM 9 Tuesday; Kona 4; 2:00 – 3:30

Venice, California and World of Warcraft: Persistence and Ephemerality in Playful Spaces
Silvia Lindtner and Bonnie Nardi

Forum and Open Discussion

Social Spaces: Production and Consumption of Goods in Digital Collectives
Co-Chairs: Fernanda B. Viégas and Karrie Karahalios

DM 10 Thursday; Kohala 4; 8:00 – 9:30

Mobile Social Networking: An Information Grounds Perspective
Scott Counts and Karen E. Fisher

Prototyping a Community-Generated, Mobile Device-Enabled Database of Environmental Impact Reviews of Consumer Products
Bill Tomlinson

Smarter Blogroll: An Exploration of Social Topic Extraction for Manageable Blogrolls
Structure and Network in the YouTube Core
John C. Paolillo

Scaling Consensus: Increasing Decentralization in Wikipedia Governance
Andrea Forte and Amy Bruckman

Information Sharing and Patterns of Social Interaction in an Enterprise Social Bookmarking Service
Ying Xin Pan and David R. Millen

Harry Potter and the Meat-Filled Freezer: A Case Study of Spontaneous Usage of Visualization Tools
Fernanda B. Viégas, Martin Wattenberg, Matt McKeon, Frank van Ham, and Jesse Kriss

Tag Clouds: Data Analysis Tool or Social Signaller?
Marti A. Hearst and Daniela Rosner
Electric Power Systems Restructuring: Engineering, Economics and Policy Track
Chair: Robert J. Thomas

Electric Power System Monitoring and Control
Chair: Peter W. Sauer

EP 1       Wednesday; Kohala 2; 10:00 – 11:30

Advanced Real-Time Measurements
Distributed State Estimator—Advances and Demonstration
A. P. Sakis Meliopoulos, George J. Cokkinides, Floyd Galvan, and Bruce Fardanesh

Issues Related to the Implementation of Synchrophasor Measurements
Miroslav Begovic, Damir Novosel, and Branislav Djokic

North American SynchroPhasor Initiative
J. E. Dagle

EP 2       Wednesday; Kohala 2; 4:00 – 5:30

EMS Applications
Advanced Sensitivity Analysis for Long-Range Transmission Expansion Planning
Scott R. Dahman, Donald J. Morrow, Keith Tynes, and James D. Weber

Smart Action: A Tool to Help Power System Restoration
Jorge Figueiredo, Jacques Sauvé, Pedro Nicolletti, Eloi Rocha, Sérgio Araújo, Fructuoso Amorim, Anderson Feitosa, Ronaldo Agra, and Willames Ribeiro

Contouring for Power Systems Using Graphical Processing Units
Joseph Euzebe Tate and Thomas J. Overbye

EP 3       Wednesday; Kohala 2; 8:00 – 9:30

Sensor Networks and Data Integration
Temporal and Spatial Requirements for Optimized Fault Location
Mladen Kezunovic and Maja Knezev

Fast Algorithms for Detecting Circular VAR Flows in Large Power-Flow Models
Yonghong Chen, Xing Liu, and Vaithianathan Venkatasubramanian

Reference Values for Dynamic Calibration of PMUs
Gerard Stenbakken, Tom Nelson, Ming Zhou, and Virgilio Centeno
Engineering and Economic Interactions
Chair: Richard Schuler

EP 4 Wednesday; Kohala 2; 2:00 – 3:30

Alternative Technologies
A Market Mechanism for Energy Allocation in Micro-CHP Grids
Carsten Block, Dirk Neumann, and Christof Weinhardt

Agent-Based Electricity Balancing with Distributed Energy Resources, A Multiperspective Case Study
Koen Kok, Zsófia Derzsi, Jaap Gordijn, Maarten Hommelberg, Cor Warmer, René Kamphuis, and Hans Akkermans

An Integrated Architecture for Demand Response Communications and Control
Michael LeMay, Rajesh Nelli, George Gross, and Carl A. Gunter

EP 5 Tuesday; Kohala 2; 4:00 – 5:30

Markets and Reliability of Supply
Testing the Performance of a Forward Capacity Market with Barriers to Entry
Timothy D. Mount and Surin Maneevitjit

A Leader-Follower Computational Learning Approach to the Study of Restructured Electricity Markets: Investigating Price Caps
Kurian Tharakunnel and Siddhartha Bhattacharyya

Spatial Arbitrage to Reduce “Seams” across Electricity System Control Areas: An Experimental Analysis
Richard E. Schuler

EP 6 Tuesday; Kohala 2; 8:00 – 9:30

Sustainability: Renewables, Carbon and Nuclear
Reducing the Variability of Wind Power Generation for Participation in Day Ahead Electricity Markets
C. Lindsay Anderson and Judith B. Cardell

Electricity Load and Carbon Dioxide Emissions: Effects of a Carbon Price in the Short Term
Adam Newcomer, Seth Blumsack, Jay Apt, Lester B. Lave, and M. Granger Morgan

Valuation of Reserve Services
Pablo A. Ruiz and Peter W. Sauer
Electric Power Reliability and Security
Chair: Jeffery E. Dagle

EP 7  Tuesday; Kohala 2; 10:00 – 11:30

Advanced Communication/Control for Reliability
Evaluating the Effect of Upgrade, Control and Development Strategies on Robustness and Failure Risk of the Power Transmission Grid

Generating Random Topology Power Grids
Zhifang Wang, Robert J. Thomas, and Anna Scaglione

Power System Extreme Event Detection: The Vulnerability Frontier
Bernard C. Lesieutre, Ali Pinar, and Sandip Roy

EP 8  Tuesday; Kohala 2; 2:00 – 3:30

Control System Cyber Security
🌟 A Centrality Measure for Electrical Networks
Paul Hines and Seth Blumsack

Monitoring of Power System Dynamic Behavior Using Characteristic Ellipsoid Method
Yuri V. Makarov, Carl H. Miller, and Tony B. Nguyen

A Kalman-Based Coordination for Hierarchical State Estimation: Algorithm and Analysis
Saman A. Zonouz and William H. Sanders
Electronic Government Track
Chair: Hans Jochen Scholl

E-Democracy
Co-Chairs: Eric W. Welch, Suzanne Beaumaster, and David Wolber

EG 1  Tuesday; Kohala 1; 2:00 – 3:30

Drop-Down Democracy: Internet Portal Design Influences Voters’ Search Strategies
Scott P. Robertson, Christine E. Wania, George Abraham, and S. Joon Park

Engaging and Informing Citizens with Household Indicators
Janet Davis

E-Government Architecture, Infrastructure, and Integration
Co-Chairs: Ralf Klischewski, Haluk Demirkan, and Marijn Janssen

EG 2  Thursday; Kohala 1; 1:00 – 2:30

Conceiving Interoperability between Public Authorities—A Methodical Framework
Jörg Ziemann, Thomas Matheis, and Dirk Werth

Fanco Pirri, Michela Paolucci, Davide Chini, Maria Chiara Pettenati, and Samuele Innocenti

Interoperability Registries in eGovernment: Developing a Semantically Rich Repository for Electronic Services and Documents of the New Public Administration
Yannis Charalabidis and Dimitris Askounis

E-Government Emerging Topics
Co-Chairs: Theresa Pardo, Lawrence Brandt, and Maddalena Sorrentino

EG 3  Tuesday; Kohala 1; 8:00 – 9:30

Causal Structure, Endogeneity, and the Missing Data Problem in Modeling the Impact of Information and Communication Technology (E-Government) Use: Theoretical and Methodological Challenges
Hun Myoung Park

✉ Current Practices in Field Force Automation: Decision Support and Information Management for the Field Force
Gwen Trentham and Hans J. Scholl

Learning Object Development and Repository Design for Digital Government Instruction
Nathan Botts, Benjamin Schooley, and Thomas A. Horan
**EG 4**  
*Tuesday; Kohala 1; 10:00 – 11:30*

High-Level Factors Affecting Global Availability of Online Government Services  
*Kathleen M. Boyer-Wright and Jeffrey E. Kottemann*

Tools for Rules: Technology Transfer and Electronic Rulemaking  
*Stuart W. Shulman, Namhee Kwon, Eduard Hovy, and Emily Huisman*

An Exploratory Framework for Future E-Government Research Investments  
*Sharon S. Dawes*

**E-Government Information Security**  
*Co-Chairs: Gregory B. White and Wm. Arthur Conklin*

**EG 5**  
*Thursday; Kohala 1; 9:00 – 9:30*

Cyber Security and Government Fusion Centers  
*Natalie Granado and Gregory White*

**EG 6**  
*Thursday; Kohala 1; 10:00 – 11:30*

[*A Comprehensive Fuzzy Logic Model for Feature Performance Assessment against Network Attacks*](#)  
*Iosif-Viorel Onut and Ali A. Ghorbani*

Internet Privacy in E-Commerce: Framework, Review, and Opportunities for Future Research  
*J. Efrim Boritz, Won Gyun No, and R.P. Sundarraj*

Pandemic Influenza, Worker Absenteeism and Impacts on Freight Transportation  
*Dean A. Jones, Linda K. Nozick, Mark A. Turnquist, and William J. Sawaya*

**E-Government/Organization and Management**  
*Co-Chairs: Helmut Krcmar, Christine Leitner, and Anthony M. Cresswell*

**EG 7**  
*Wednesday; Kohala 1; 8:00 – 9:30*

[*An Empirical Examination of Open Standards Development*](#)  
*Rajiv Shah and Jay P. Kesan*

An Exploratory Approach for Benefits Management in e-Government: Insights from 48 Norwegian Government Funded Projects  
*Leif Skiftenes Flak, Tom Roar Eikebrokk, and Willy Dertz*

Governance Structures in Cross-Boundary Information Sharing: Lessons from State and Local Criminal Justice Initiatives
Theresa A. Pardo, J. Ramon Gil-Garcia, and G. Brian Burke

EG 8  Wednesday; Kohala 1; 10:00 – 11:30
Management of Technochange in an Interorganizational E-government Project
Andreas Nilsson

Performance Monitoring and Accountability through Technology: E-government in Greece
Dimitra I. Petrakaki, Niall Hayes, and Lucas D. Introna

Research on Constraints in Anti-Money Laundering (AML) Business Process in China Based on Theory of Constraints
Xuan Liu and Pengzhu Zhang

E-Government Services and Information
Co-Chairs: Maria Wimmer, Enrico Ferro, and Sara Eriksen

EG 9  Wednesday; Kohala 1; 2:00 – 3:30

An Activity-Based Approach towards Development and Use of E-Government Service Ontologies
Ralf Klischewski and Stefan Ukena

Antecedents to E-File Adoption: The U.S. Perspective
Lemuria Carter, Ludwig Schaupp, and Allison Evans

Building Citizen Trust towards E-Government Services: Do High Quality Websites Matter?
Chee Wee Tan, Izak Benbasat, and Ronald T. Cenfetelli

EG 10  Wednesday; Kohala 1; 4:00 – 5:30

Measuring Factors that Influence the Success of E-Government Initiatives
Ronnie Park

Needs Driven Design for eGovernment Value Webs
Petra Wolf and Helmut Krcmar

The Futures of EU-Based eGovernment: A Scenario-Based Exploration
Patrick van der Duin and Noor Huijboom

EG 11  Thursday; Kohala 1; 8:00 – 9:00

The Use of the UTAUT Model in the Adoption of E-Government Services in Kuwait
Suha AlAwadhi and Anne Morris
Panel Discussion

**E-Policy, Law, and Governance**

*Chair: Keith Schildt, Sharon S. Dawes, and Stuart Shulman*

**EG 12**  
*Tuesday; Kohala 1; 4:00 – 5:30*

Future e-Government Research: 13 Research Themes Identified in the eGovRTD2020 Project  
*Maria Wimmer, Cristiano Codagnone, and Marijn Janssen*

An Analysis of Korean National Information Strategy of IT839  
*Dong-Hee Shin and Won-Yong Kim*

🌟 Citizens’ Concerns about the Privacy of Personal Information Held by Government: A Comparative Study, Japan and New Zealand  
*Rowena Cullen*
Information Technology in Health Care Track
Chair: William G. Chismar

Advanced Bioinformatics Tools for Translational Research
Co-Chairs: Hesham H. Ali and Simon Sherman

HC 1   Tuesday; Waikoloa 2; 8:00 – 9:00

- The Impact of Directionality in Predications on Text Mining
  Gondy Leroy, Marcelo Fiszman, and Thomas C. Rindflesch

- RFLP-WAVE Analysis for Rapid Identification of Medically Important Fungi
  Dhundy R. Bastola, Sarfraz H. Chandio, Peter C. Iwen, Steven H. Hinrichs, and Hesham Ali

- Tree Mining in Mental Health Domain
  Maja Hadzic, Fedja Hadzic, and Tharam Dillon

Consumer Health Informatics
Co-Chairs: Cynthia LeRouge, Gordana Culjak, and Thomas A. Horan

HC 2   Wednesday; Waikoloa 2; 2:00 – 3:30

- Stratified Modelling and Analysis of Confidentiality Requirements
  Adeniyi Onabajo and Jens H. Weber-Jahnke

- Prospective Personal Health Record Use Among Different User Groups: Results of a Multi-wave Study
  Deborah Beranek Lafky and Thomas A. Horan

- Consumer-Centric and Privacy-Preserving Identity Management for Distributed E-Health Systems
  Richard Au and Peter Croll

HCI Issues in Healthcare IT
Co-Chairs: Ann Fruhling, E. Vance Wilson, and Nina McGarry

HC 3   Wednesday; Waikoloa 2; 8:00 – 9:30

- An Investigation on the Use of Computerized Patient Care Documentation: Preliminary Results
  Kenneth M. Cam, Efthimis N. Efthimiadis, and Kenric W. Hammond

- Human-Centered Design of Persuasive Appointment Reminders
  Muhammad F. Walfji and Jiajie Zhang
Interoperability and Standards in Health Care IT  
*Co-Chairs: Mark Gaynor, Steve Moulton, and James Rawn*

**HC 4**  
Tuesday; Waikoloa 2; 10:00 – 11:30

Evaluating Ontologies Based on the Naturalness of Their Preferred Terms  
*Soon Ae Chun and James Geller*

A Qualitative Study of Physicians, Surgeons, Nurses, Clinicians, and Administrators Perception of Training to Learn Mandated Healthcare Informatics Tool Conducted at DC Veterans Affair Hospital  
*Nina McGarry and Gordana Culjak*

Interoperability of Medical Applications and Devices  
*Mark Gaynor, Dan Myung, Amar Gupta, James Rawn, and Steve Moulton*

**IT Adoption and Evaluation in Healthcare**  
*Co-Chairs: Ton Spill, Ken Trimmer, Cynthia LeRouge, and Carla Wiggins*

**HC 5**  
Wednesday; Queen’s 5; 8:00 – 9:30

- Prioritizing Clinical Information System Project Risk Factors: A Delphi Study  
  *Guy Paré, Claude Sicotte, Mirou Jaana, and David Girouard*

- The Internal Value of Mobile Computing in Emergency Medical Services: An Australian Case Study  
  *Liz Burley, Helana Scheepers, and Libby Owen*

- A TeleMedicine Transfer Model for Sub-Saharan Africa  
  *Mengistu Kifle, Victor W. A. Mbarika, Clive Tsuma, Derkirra Wilkerson, and Joseph Tan*

**HC 6**  
Wednesday; Queen’s 5; 10:00 – 11:30

- From Adoption to Diffusion of a Telehealth Innovation  
  *Sunyoung Cho, Lars Mathiassen, and Mike Gallivan*

- Soft Innovation as Data-Driven Process Improvement Exploited via Integrated Hospital Information Systems  
  *Jim Ryan, Barbara Doster, Sandra Daily, and Marty Heslin*

- Taking Charge of Your Health: The Drivers of Enrollment and Continued Participation in Online Health Intervention Programs  
  *Jie Mein Goh and Ritu Agarwal*

**HC 7**  
Wednesday; Queen’s 5; 2:00 – 3:30
Electronic Medical Records: A Review Comparing the Challenges in Developed and Developing Countries
Sanjay P. Sood, Stacie N. Nwabueze, Victor W. A. Mbarika, Nupur Prakash, Samir Chatterjee, Pradeep Ray, and Saroj Mishra

Electronic Medical Records Use—An Examination of Resident Physician Intentions
Ken Trimmer, John Beachboard, Carla Wiggins, and William Woodhouse

**IT Applications in Healthcare Environments**
*Co-Chairs: Radmila Juric, Jasna Kuljis, and Patricia Obendorf*

**HC 8**  
*Thursday; Queen’s 4; 8:00 – 9:30*

A Light-Weight Component for Adding Decision Support to Electronic Medical Records
Jens H. Weber-Jahnke and Glen McCallum

Building a Customizable Knowledge Management Environment to Support Public Health Practice: Design Strategies
Debra Revere and Sherrilynne Fuller

Implementation of Ontology for Intelligent Hospital Wards
Pavandeep Kataria, Radmila Juric, Shamimabí Paurobally, and Kambíz Madani

**HC 9**  
*Thursday; Queen’s 4; 10:00 – 11:30*

Integrated Solutions for Information Sharing In Health Care Applications
Saverio Da Ronco, Guillermo Diez-Andino Sancho, Lorenzo Dini, Elisabetta Ronchieri, and Matteo Selmi

Pseudonymization for improving the Privacy in E-Health Applications
Bernhard Riedl, Veronika Grascher, Stefan Fenz, and Thomas Neubauer

A Proposed Solution for Managing Doctor’s Smart Cards in Hospitals Using a Single Sign-On Central Architecture
Christian Mauro, Ali Sunyaev, Jan Marco Leimeister, Andreas Schweiger, and Helmut Krcmar

Value Propositions for Information Systems in Healthcare
Daron Green and Terry Young
**Internet and the Digital Economy Track**

*Co-Chairs: Dave King and Alan Dennis*

**Community Wireless Networks for Development**

*Co-Chairs: Hesham H. Ali and Abdelnasser Abdelaal*

*IN 1 Thursday; Waikoloa 3; 10:00 – 11:30*

- Discursive Deployments: Mobilizing Support for Municipal and Community Wireless Networks in the U.S.
  *Rosío Alvarez and Juana María Rodríguez*

- Analysis of the Development of Kutztown Community Network
  *Dong-Hee Shin and Murali Venkatesh*

**Cyber Threats, Emerging Risks, and Systemic Concerns**

*Co-Chairs: Guido Schryen, Jose J. Gonzales, and Eliot Rich*

*IN 2 Thursday; Queen’s 5; 8:00 – 9:30*

- Improvements in Security Alert Analysis with a Truth Maintenance System
  *Albert Tang, Pradeep Ray, and Lundy Lewis*

- A Flexible, High Performance Service-Oriented Architecture for Detecting Cyber Attacks
  *Adam Wynne, Ian Gorton, Justin Almquist, Jack Chatterton, and Dave Thurman*

- Towards a Methodology for Profiling Cyber Criminals
  *Leonard Kwan, Pradeep Ray, and Greg Stephens*

*IN 3 Thursday; Queen’s 5; 10:00 – 11:30*

- Systems Theory Model for Information Security
  *W. Arthur Conklin and Glenn Dietrich*

- Software Piracy: Original Insights from a Criminological Perspective
  *Robert Willison and Mikko Siponen*

- Toward a Generic Model of Security in an Organizational Context: Exploring Insider Threats to Information Infrastructure
  *Ignacio J. Martinez-Moyano, Michael E. Samsa, James F. Burke, and Bahadir K. Akcam*
Delivering Online Service Quality: The Role of IT  
Co-Chairs: Beverley Hope, Mary Tate, and Brian Corbitt

IN 4   Tuesday; Queen’s 6; 8:00 – 9:30

Understanding the Blog Service Switching in Hong Kong: An Empirical Investigation  
Kem Z.K. Zhang, Christy M.K. Cheung, Matthew K.O. Lee, and Huaping Chen

Trust in Online Shopping: The Korean Student Experience  
Ji-Seok Yoo, Jae-Nam Lee, and Julian Hoffmann

Virtual Experiential Marketing on Online Customer Intentions and Loyalty  
Jashen Chen, Russell K.H. Ching, Margaret Meiling Luo, and Chu-Chi Liu

An Investigation into the Determinants of Repurchase Loyalty in the E-Marketplace  
Hui-Chih Wang, Her-Sen Doong, Hui-Chin Shih, John Pallister, and Gordon Foxall

Electronic Customer Relationship Management  
Co-Chairs: Susanne Glissmann, Nicholas C. Romano Jr., Lutz M. Kolbe, and Jerry Fjermestad

IN 5   Tuesday; Kona 2; 2:00 – 3:30

A Cognitive Map of People’s Online Risk Perceptions and Attitudes: An Empirical Study  
Isaac J. Gabriel and Easwar Nyshadham

Internet Users’ Beliefs about Government Surveillance—The Role of Social Awareness and Internet Literacy  
Tamara Dinev

CRM and Customer Portfolio Management for E-Tailers  
Dennis Kundisch, Stefan Sackmann, and Markus Ruch

IN 6   Tuesday; Kona 2; 4:00 – 5:30

The Business Value of CRM Systems: A Resource-Based Perspective  
Shutao Dong and Kevin Zhu

Beyond CRM: A System to Bridge the Gap between the Customer and the Global Manufacturing Supply Chain  
Charalampos Makatsoris and Yoon Seok Chang
Electronic Marketing

Co-Chairs: Ajit Kambil, Marios Koufaris, Arnold Kamis, and Bruce Weinberg

IN 7 Tuesday; Queen’s 6; 10:00 – 11:30

An Exploration of the Hygiene and Motivator Aspects of WebQual Constructs in Predicting Website Reuse

Ben Q. Liu and Dale L. Goodhue

Marketing Using Web 2.0

Salvatore Parise and Patricia J. Guinan

Simulation of Online Selling with Posted-Price and Auctions: Comparison of Dual Channel’s Performance under Different Auction Mechanisms

Hila Etzion and Scott Moore

IN 8 Tuesday; Queen’s 6; 2:00 – 3:30

What, Who and Where: Insights into Personalization

Anne Sunikka and Johanna Bragge

Web Accessibility for the Blind: Corporate Social Responsibility or Litigation Avoidance?

Jonathan Frank

A Taxonomy of Service Failures in Electronic Retailing

Nelson Massad and John Beachboard

IN 9 Tuesday; Queen’s 6; 4:00 – 5:30

Examining the Perceived Credibility of Online Opinions: Information Adoption in the Online Environment

Neil Rabjohn, Christy M.K. Cheung, and Matthew K.O. Lee

Integrating Conflicting Reviews: Attributional Hypotheses of Consumer Response to Information Uncertainty depending on Prior Brand Attitude

Do-Hyung Park and Ingoo Han

Interactive Digital Entertainment, Social Computing, and Lifestyle Computing

Co-Chairs: Paul Benjamin Lowry and Ian MacInnes

IN 10 Wednesday; Waikoloa 2; 10:00 – 11:30

Chaos Theory as a Model for Interpreting Weblog Traffic

Xitong Guo, Doug Vogel, Zhongyun Zhou, Xi Zhang, and Huaping Chen
Morality in Cyberspace: A Comparison of Chinese and U.S. Youth’s Beliefs about Acceptable Online Behavior
Linda A. Jackson, Yong Zhao, Wei Qiu, Anothony Kolenic III, Hiram E. Fitzgerald, Rena Harold, and Alexander von Eye

Social Network Analysis of Video Bloggers’ Community
John Warmbrodt, Hong Sheng, and Richard Hall

Understanding Development and Usage of Social Networking Sites: The Social Software Performance Model
Catherine Dwyer, Starr Roxanne Hiltz, and George Widmeyer

**Internet Security: Intrusion Detection and Prevention in Mobile Systems**
*Co-Chairs: Joe Tront and Randy Marchany*

**IN 11**  
Tuesday; Kona 2; 8:00 – 9:30

Frameworks for Securing Limited-Device Applications  
*Timothy Lindquist, Aarthi Ramamurthy, and Ramon Anguamea*

Integrated OTP-Based User Authentication Scheme Using Smart Cards in Home Networks  
*Jongpil Jeong, Min Young Chung, and Hyunseung Choo*

Location Privacy for Users of Wireless Devices through Cloaking  
*Calvert L. Bowen III, David R. Raymond, and Thomas L. Martin*

Mobile Device Profiling and Intrusion Detection Using Smart Batteries  
*Timothy K. Buennemeyer, Theresa M. Nelson, Lee M. Clagett, John P. Dunning, Randy C. Marchany, and Joseph G. Tront*

**Market Structures and Business Models for Web-Based Information Goods**
*Co-Chairs: Axel Hochstein, Jie Wang, and Alexander Schwinn*

**IN 12**  
Thursday; Queen’s 6; 8:00 – 9:30

Can a P2P File-Sharing Network Become an e-Marketplace?  
*Fu-ren Lin, Hau-ming Lo, and Cong-ren Wang*

Free-Riding and Competition in Network Markets for Digital Goods  
*Andreas U. Schmidt*

Pricing Product Lines of Digital Content: A Model Using Online Choice Experiment  
*P.K. Kannan, Barbara Kline Pope, and Ai-Mei Chang*

**IN 12**  
Thursday; Queen’s 6; 10:00 – 11:30
E-Business Tools for Active Credit Risk Management—A Market Analysis
Simone Westerfeld and Hans-Dieter Zimmermann

Critical Assumptions in Superdistribution Based Business Models—Empirical Evidence from the User Perspective
Sophie Ahrens, Thomas Hess, Tanja Pfister, and Behrend Freese

Open Movements: Open Source Software and Open Content
Co-Chairs: Kevin Crowston and Hala Annabi

IN 14 Thursday; Waikoloa 3; 8:00 – 9:30

On the Inequality of Contributions to Wikipedia
Felipe Ortega, Jesus M. Gonzalez-Barahona, and Gregorio Robles

An Exploratory Study on the Evolution of OSS Developer Communities
Kawin Ngamkajornwiwat, Dongsong Zhang, A. Güneş Koru, Lina Zhou, and Robert Nolker

Shared Mental Models among Open Source Software Developers
Barbara Scozzi, Kevin Crowston, U. Yeliz Eseryel, and Qing Li

Standards and Standardization
Co-Chairs: Joel West, Kalle Lyytinen, and Tim Weitzel

IN 15 Tuesday; Queen’s 5; 4:00 – 5:30

Exploring the Suitability of IS Security Management Standards for SMEs
Yves Barlette and Vladislav V. Fomin

The Impact of Direct and Indirect Network Effects on the Diffusion of Communication Standards
Roman Beck and Daniel Beimborn

Do Firm R&D Investments Drive Decisions to Join? On the Value of Standard-Setting Organizations in the Consumer Electronics Industry
Alok Gupta, Robert J. Kauffman, and Amy Ping Wu
Technology and Strategies for Service-Oriented Architectures
Co-Chairs: William Haseman, Marc N. Haines, and Frank Armour

IN 16 Wednesday; King’s 2; 2:00 – 3:30

An Operational Framework for Service Oriented Architecture Network Security
Robert Bunge, Sam Chung, Barbara Endicott-Popovsky, and Don McLane

Semantic Web Services Monitoring: An OWL-S Based Approach
Roman Vaculin and Katia Sycara

Where to Start with SOA: Criteria for Selecting SOA Projects
Thorsten Hau, Nico Ebert, Axel Hochstein, and Walter Brenner

IN 17 Wednesday; King’s 2; 4:00 – 5:30

Service Oriented Architecture: Challenges for Business and Academia
Amelia Maurizio, James Sager, Peter Jones, Gail Corbitt, and Louis Girolami

Software Architectural Reuse Issues in Service-Oriented Architectures
Julie Street and Hassan Gomaa

Value Webs in the Service Economy
Co-Chairs: Helmut Krcmar, Kalle Lyytinen, and Jan Marco Leimeister

IN 18 Tuesday; Waikoloa 2; 2:00 – 3:30

e3service: An Ontological Approach for Deriving Multi-supplier IT-Service Bundles from Consumer Needs
Sybren de Kinderen and Jaap Gordijn

The 8C Framework as a Reference Model for Collaborative Value Webs in the Context of Web 2.0
T. Andrew Yang, Dan J. Kim, Vishal Dhalwani, and Tri K. Vu

The Role and Emerging Landscape of Data Pools in the Retail and Consumer Goods Industries
Jan Schemm and Christine Legner
**Virtual Communities**  
*Co-Chairs: Karine Barzilai-Nahon and Caroline Haythornthwaite*

**IN 19 Wednesday; Kona 2; 2:00 – 3:30**

Leveraging a Wiki to Enhance Virtual Collaboration in the Emergency Domain  
*Connie White, Linda Plotnick, Ronja Addams-Moring, Murray Turoff, and Starr Roxanne Hiltz*

Social Network Structure as a Critical Success Condition for Virtual Communities  
*David Hinds and Ronald M. Lee*

Virtual Teams and Development: A Language Games Perspective  
*Sajda Qureshi and Anne-Laure Fayard*

Influence of Sense of Presence on Intention to Participate in a Virtual Community  
*Yoonhyuk Jung*
Knowledge Management Systems Track

Co-Chairs: Murray Jennex and Dave Croasdell

Knowledge Management Implementation and Other Issues

Co-Chairs: Dave Croasdell and Peter Baloh

**KM 1** Tuesday; Kohala 3; 8:00 – 9:30

A Proposal for Examining Factors Leading to Knowledge Equity
Dave Croasdell, Vicki McKinney, Mike Allen, and Nancy Burrell

Knowledge Management for Healthcare Organizations: Comparing Strategies with Technical Support
Biswaadip Ghosh and Judy E. Scott

Managing Mathematical Texts with OWL and Their Graphical Representation
Sabina Jeschke, Marc Wilke, Nicole Natho, and Olivier Pfeiffer

**KM 2** Tuesday; Kohala 3; 10:00 – 11:30

Relative Importance of Knowledge Portal Functionalities: A Contingent Approach on Knowledge Portal Design for R&D Teams
Hong Joo Lee, Jong Woo Kim, Joon Koh, and Yunhee Lee

Knowledge Management in Renewing Software Development Processes
Marianne Kukko, Nina Helander, and Pasi Virtanen

Gathering Experience Knowledge from Iterative Software Development Processes
Jouni K. Kokkoneni

Knowledge Flows: Knowledge Transfer, Sharing and Exchange in Organizations

Co-Chairs: K.D. Joshi, Mark E. Nissen, and Saonee Sarker

**KM 3** Thursday; Kohala 3; 8:00 – 9:30

ICT Perceptions and Meanings: Implications for Knowledge Transfer
Anne P. Massey and Taylor M. Wells

Systems Theory and Knowledge Management Systems: The Case of Pratt-Whitney Rocketdyne
Mark Chun, Kiho Sohn, Priscilla Arling, and Nelson F. Granados

Formal Boundary Spanning and Informal Boundary Spanning in Cross-Border Knowledge Sharing: A Case Study
Yongsuk Kim and Sirkka L. Jarvenpaa

**KM 4** Thursday; Kohala 3; 10:00 – 11:30
Individual Learning and Performance in Communities of Practice
Zeying Wan, Yulin Fang, and Derrick J. Neufeld

Viewing Boundary “Objects” as Boundary Constructions
W. David Holford, Mehran Ebrahimi, Omar Aktouf, and Laurent Simon

An Empirical Investigation of Knowledge Creation in Electronic Networks of Practice: Social Capital and Theory of Planned Behavior (TPB)
Shih-Wei Chou and Yu-Chieh Chang

KM 5 Thursday; Kohala 3; 1:00 – 2:30
Work Design in Knowledge-Based Network Organizations: Facilitating Supply Chain Knowledge Flows via Network Entrepreneurship
Xun Li and Clyde W. Holsapple

An Exploratory Examination of Knowledge Sharing Behaviors: Voluntary vs. Solicited
Seokwoo Song and James T.C. Teng

Adaption-Innovation Theory and Cognitive Diversity: The Impact on Knowledge Use within Organizations
Michael A. Chilton and James M. Bloodgood

KM 6 Thursday; Kohala 3; 3:00 – 4:30
Knowledge Conversion in GSS-Aided Virtual Teams: An Empirical Study
Imad Samarah, Souren Paul, and Suresh Tadisina

The Value of Weak vs. Strong Ties between Individuals and Projects for New Product Review
Lynne P. Cooper

Using Agent Based Simulation and Game Theory Analysis to Study Information Sharing in Organizations—The InfoScape
Richard Jolly and Wayne Wakeland

Knowledge Management for Creativity and Innovation
Co-Chairs: Hind Benbya, Lynne P. Cooper, and Nassim Belbaly

KM 7 Tuesday; Kohala 3; 2:00 – 3:30
A Framework for the Co-design of Business and IT Systems
Susan Gasson

How IT Supports Knowledge Discovery and Learning Processes on the Web
Tracy A. Jenkin
N2 Heads Are Better than One: Collaborative Learning, Utilizing an Integrated Knowledge Repository, Facilitated through a Massively Multiplayer Online Gaming (MMOG) Paradigm
*David J. Lubliner and George Widmeyer*

**KM 8** Tuesday; Kohala 3; 4:00 – 5:30

- Supporting Strategic Innovativeness: Scenario Planning for Driving Organizational Knowledge Sharing
  *Kalle Piirainen, Hannu Kivijärvi, and Markku Tuominen*

- The Impact of Virtual Technologies on Organizational Knowledge Creation: An Empirical Study
  *A. Vaccaro, F. Veloso, and S. Brusoni*

**Knowledge Management/Organizational Memory Success and Performance Measurements**
*Co-Chairs: Stefan Smolnik and Murray E. Jennex*

**KM 9** Wednesday; Kohala 3; 8:00 – 9:30

- How Knowledge Map and Personalization Affect Effectiveness of KMS in High-Tech Firms
  *Jung-Yu Lai, Chao-Te Wang, and Chun-Yi Chou*

- KMS Quality—Impact on Competitive Advantage
  *Nassim Belbaly*

- Exploring the Relationships among Individual Knowledge Management Outcomes
  *Shahnawaz Muhammed, William J. Doll, and Xiaodong Deng*

- Does Knowledge Management Pay Off?
  *Clyde W. Holsapple and Jiming Wu*

**KM 10** Wednesday; Kohala 3; 10:00 – 11:00

- Elaboration Likelihood in Knowledge Management: A Model and Experimental Test
  *Kelly J. Fadel, Alexandra Durcikova, and Hoon S. Cha*

- Towards Measuring Knowledge Management Success
  *Murray E. Jennex, Stefan Smolnik, and David Croasdell*
Knowledge Modeling

Co-Chairs: Jong Woo Kim, Balasubramaniam Ramesh, and Lan Cao

KM 11  Wednesday; Kohala 3; 11:00 – 11:30

A Value Network Model for Strategic Analysis
Alain Biem and Nathan Caswell

Supporting Distributed Cognition in Knowledge Management Systems

Co-Chairs: Susan Gasson and Jim Waters

KM 12  Wednesday; Kohala 3; 2:00 – 3:30

An Information Ecology Structured by a Nexus between Accreditation and Practice: Boundary Objects, Brokers and Translation across the Boundaries of Standards Compliance and Practice-Oriented Work
Jo-Anne Kelder and Paul Turner

A Collaborative Dimensions Framework: Understanding the Mediating Role of Conceptual Visualizations in Collaborative Knowledge Work
Sabrina Bresciani, Alan F. Blackwell, and Martin Eppler

A Conceptual Framework of Transactive Networks System
Sheng-cheng Lin, Yu-Min Wang, and Daniel Y. Shee

Social Network Behavior, Thought-Leaders and Knowledge Building in an Online Learning Community
Jim Waters

Technological Aspects of KM

Co-Chairs: Richard Orwig, Dianne Hall, and Jim Courtney

KM 13  Wednesday; Kohala 3; 4:00 – 5:30

Designing Multifunctional Knowledge Management Systems
Rosina Weber and Sidath Gunawardena

Knowledge Analysis with Tree Patterns
Fedja Hadzic, Tharam S. Dillon, and Elizabeth Chang
Organizational Systems and Technology Track
Chair: Hugh J. Watson

Business Processes Management (BPM)
Chair: Olivera Marjanovic

OS 1      Tuesday; Kohala 4; 8:00 – 9:30

σ Service Process Innovation: A Case Study of BPMN in Practice
Michael zur Muehlen and Danny T. Ho

Understanding Knowledge-Intensive, Practice-Oriented Business Processes
Olivera Marjanovic and Ravi Seethamraju

Organizational Readiness for Business Process Outsourcing: A Model of Determinants and Impact on Outsourcing Success
Sebastian F. Martin, Daniel Beimborn, Mihir A. Parikh, and Tim Weitzel

OS 2      Tuesday; Kohala 4; 10:00 – 11:30

Modes of Governance in Business Process Outsourcing: Executive versus Market’s Perspective
Andreas Mattig

Exploring Process-Modelling Practice: Towards a Conceptual Model
Tom R. Eikebrokk, Jon Iden, Dag H. Olsen, and Andreas L. Opdahl

Integration of an Ontological Information Security Concept in Risk Aware Business Process Management
Gernot Goluch, Andreas Ekelhart, Stefan Fenz, Stefan Jakoubi, Simon Tjoa, and Thomas Mück

OS 3      Tuesday; Kohala 4; 2:00 – 3:30

A Survey on the Flexibility Requirements Related to Business Processes and Modeling Artifacts
Selmin Nurcan

Enabling On-the-Fly Business Process Composition through an Event-Based Approach
Nancy Alexopoulou, Mara Nikolaidou, Yannis Chamodrakas, and Drakoulis Martakos

Competitive Strategy, Economics and IS
Co-Chairs: Eric K. Clemons, Rajiv M. Dewan, and Robert J. Kauffman
**OS 4  Wednesday; Kohala 4; 8:00 – 9:30**

Should Online Auctions Employ Dynamic Buyout Pricing Models?
_Roumen Vragov, Di Shang, and Karl R. Lang_

A Discriminatory Pay-as-Bid Mechanism for Efficient Scheduling in the Sun N1 Grid Engine
_Jochen Stößer, Philipp Bodenbenner, Simon See, and Dirk Neumann_

The Evolution of the Peer-to-Peer File Sharing Industry and the Security Risks for Users
_M. Eric Johnson, Dan McGuire, and Nicholas D. Willey_

**OS 5  Wednesday; Kohala 4; 10:00 – 11:30**

Resonance Marketing in the Age of the Truly Informed Consumer: Changes in Corporate Strategy Resulting from Changes in Customer Behavior
_Eric K. Clemons_

Development and Validation of Scales to Measure the Strategic Potential of IT-Enabled Resources: A Resource-Based Approach
_Saggi Nevo and Michael R. Wade_

Partnerships between Software Firms: Is There Value from Complementarities?
_Lucia S. Gao and Bala Iyer_

**OS 6  Wednesday; Kohala 4; 2:00 – 3:30**

Guidelines for Setting Organizational Policies for Data Quality
_Rajiv Dewan and Veda Storey_

- The Deterrent and Displacement Effects of Information Security Enforcement: International Evidence
_Ivan P.L. Png, Chen-Yu Wang, and Qiu-Hong Wang_

- The Emerging Role of Vertical Search Engines in Travel Distribution: A Newly-Vulnerable Electronic Markets Perspective
_Nelson F. Granados, Robert J. Kauffman, and Bradley King_

Information Technology and the Number of Suppliers in a Supply Chain: Is There a Relationship?
_Jason Dedrick, Sean Xin Xu, and Kevin Zhu_
Data Warehousing and Business Intelligence
Co-Chairs: Hugh J. Watson, Robert Winter, and Barbara H. Wixom

OS 7 Tuesday; Waikoloa 3; 2:00 – 3:30

Process Orientation of Information Logistics—An Empirical Analysis to Assess Benefits, Design Factors, and Realization Approaches
Tobias Bucher and Barbara Dinter

Measuring Data Believability: A Provenance Approach
Nicolas Prat and Stuart Madnick

From Federated Databases to a Federated Data Warehouse System
Stefan Berger and Michael Schrefl

Enterprise Architecture: Challenges and Implementations
Co-Chairs: Frank Armour, Stephen Kaisler, and Jeff Bitner

OS 8 Wednesday; King’s 2; 8:00 – 9:30

Processes for Enterprise Application Architecture Management
Martin Hafner and Robert Winter

A Consolidated Strategic Business and IT Alignment Representation: A Framework Aggregated From Literature
Norman Vargas, Leonel Plazaola, and Mathias Ekstedt

Strategic Business and IT Alignment Assessment: A Case Study Applying an Enterprise Architecture-Based Metamodel
Leonel Plazaola, Johnny Flores, Norman Vargas, and Mathias Ekstedt

OS 9 Wednesday; King’s 2; 10:00 – 11:30

Enterprise Information System Engineering: A Model-Based Approach Based on the Zachman Framework
Mara Nikolaidou and Nancy Alexopoulou

Geographically Distributed Enterprise Architecting: Towards a Theoretical Framework
J. Alberto Espinosa and Frank Armour
ERP/EAI System Issues and Answers
Co-Chairs: Gail Corbitt, Marino Themistocleous, and Zahir Irani

OS 10   Wednesday; Waikoloa 3; 8:00 – 9:30

A Methodological Proposal to Assess the Feasibility of ERP Systems Implementation Strategies
Guido Capaldo and Pierluigi Rippa

Enterprise Information Systems and Strategic Flexibility
William MacKinnon, Gerald Grant, and David Cray

Stock Price Reactions to Investments in EAI and ERP: A Comparative Event Study
Narcyz Roztocki and Heinz Roland Weistroffer

Implementation and Usage of Radio Frequency Identification (RFID)
Co-Chairs: Frederick J. Riggins and Bill C. Hardgrave

OS 11   Tuesday; Waikoloa 2; 4:00 – 5:30

A Cross-Cultural Comparison of Perceived Strategic Importance of RFID for CIOs in Germany and Italy
Stefanie Jahner, Jan Marco Leimeister, Uta Knebel, and Helmut Krcmar

Hybrid RFID-GPS Real-Time Location System for Human Resources: Development, Impacts and Perspectives
Manon G. Guillemette, Isabelle Fontaine, and Claude Caron

Aditya Sharma, Dominic Thomas, and Benn Konsynski

Information Technology for Development
Co-Chairs: Sajda Qureshi, Peter Wolcott, and Maung Sein

OS 12   Thursday; Waikoloa 2; 8:00 – 9:30

Sustainability of Information Technology Therapy on Micro-enterprise Development
Sajda Qureshi, Mehruz Kamal, and Peter Wolcott

A Growth-Theoretic Empirical Analysis of Simultaneity in Cross-National E-Commerce Development
Shu-Chun Ho, Robert J. Kauffman, and Ting-Peng Liang

E-Government Challenges and the Role of Political Leadership in Indonesia: The Case of Sragen
Bjørn Furuholt and Fathul Wahid
OS 13    Thursday; Waikoloa 2; 10:00 – 11:30

On the Company We Keep: Combined Scale-and-Scope Externalities in the Growth of IT Industry Co-agglomerations
Robert J. Kauffman and Ajay Kumar

Exploring E-Commerce Readiness in China: The Case of the Grocery Industry
Sherah Kurnia

Innovation and Innovation Management (In cooperation with ISPIM)
Co-Chairs: Desai Narasimhalu and Marko Torkkeli

OS 14    Tuesday; King’s 3; 8:00 – 9:30

Invited Presentation - Using Best Practice to Manage Innovations: The Innovation Enterprizer Toolkit
Ian Bitran and Marko Torkkeli

Innovation Position: A Quantitative Analysis to Evaluate the Efficiency of Research and Development on the Basis of Patent Data
Katsuhiro Suzuki, Junichi Sakata, and Jun Hosoya

Protecting Service Innovations against Imitation—The Case of Mobile TV
Pia Hurmelinna-Laukkanen, Paavo Ritala, Kirsimarja Blomqvist, and Kaisa Henttonen

OS 15    Tuesday; King’s 3; 10:00 – 11:30

Leveraging the Wisdom of Crowds: Designing an IT-Supported Ideas Competition for an ERP Software Company
Winfried Ebner, Marco Leimeister, Ulrich Bretschneider, and Helmut Krcmar

Communicative Incentives in Consumer Innovation Brokering
Mikko Järvilehto, Kari Leppälä, and Jouni Similä

Enterprise Adoption of ICT Innovations: Multi-disciplinary Literature Analysis and Future Research Opportunities
Rahul C. Basole
IT and Project Management
Co-Chairs: Joseph Weiss, Sue Newell, and Jacky Swan

OS 16       Wednesday; Queen’s 4; 8:00 – 9:30

The Factors that Affect the Implementation Success of IS
Shih-Wei Chou, Mong-Young He, and Pi-Yi Chen

Corporate User Representatives and the Dialectics of Enterprise Systems: A Quest for Social Actors with Political Skill
Stig Nordheim

Building Trust and Cooperation through Technology Adaptation in Virtual Teams: Empirical Field Evidence
Dominic M. Thomas and Robert P. Bostrom

OS 17       Wednesday; Queen’s 4; 10:00 – 11:30

360-Degree Strategic Leadership Team Alignment: Profile of an Intervention Program
Joseph W. Weiss and John Shenette

Deal or No Deal? Vendor Issues in Two Multi-organization Pilot Test Projects
Janis L. Gogan and Ashok Rao

IT Governance and Its Mechanisms
Chair: Wim Van Grembergen

OS 18       Thursday; Kohala 2; 8:00 – 9:30

Determinants of CIO Compensation Structure and Its Impact on Firm Performance
Ali A. Yayla and Qing Hu

Analysing the Relationship between IT Governance and Business/IT Alignment Maturity
Steven De Haes and Wim Van Grembergen

IT Business Alignment as Governance Tool for Firm-Internal Relationship Quality: A Longitudinal Case Study
Heinz-Theo Wagner and Tim Weitzel

OS 19       Thursday; Kohala 2; 10:00 – 11:30

Evasive Maneuvers and Guerilla Tactics: A Scandinavian Institutional Perspective on Chief Information Officer’s Strategies for Legitimization
Johan Magnusson and Bo Oskarsson

The IT Organization Modeling and Assessment Tool: Correlating IT Governance Maturity with the Effect of IT
Mårten Simonsson and Pontus Johnson

Decision Support Framework for the Implementation of IT-Governance

K. Fink and C. Ploder

OS 20 Thursday; Kohala 2; 1:00 – 2:30

A Study of the Causal Relationship between IT Governance Inhibitors and Its Success in Korea Enterprises
Chi-Hoon Lee, Jung-Hoon Lee, Jong-Sung Park, and Kap-Young Jeong

Business and IT Governance Alignment Simulation Essay on a Business Process and IT Service Model
Enrique Silva and Yves Chaix

Making the Most of IT Governance Software: Understanding Implementation Processes
Hauke Heier, Hans P. Borgman, and Thomas H. Hofbauer

OS 21 Thursday; Kohala 2; 3:00 – 4:30

IT Offshoring Risks and Governance Capabilities
Akemi Takeoka Chatfield and Padmaharsha Wanninayaka

Building Inter-organizational Cooperative Network for IT Collaboration
Lauri A. T. Salmivalli, Hannu Salmela, and Timo Kestilä

Relational Risk Mitigation: The Relationship Approach to Mitigating Risks in Business Process Outsourcing
Kim Wüllenweber, Stefanie Jahner, and Helmut Krcmar

Research Methods and Applications
Co-Chairs: Sajda Qureshi, Doug Vogel, and Kerry Ward

OS 22 Thursday; Waikoloa 3; 1:00 – 2:30

Exploring the Semantic Validity of Questionnaire Scales
Kai R. Larsen, Dorit Nevo, and Eliot Rich

Examining the “Urban Legend” of Common Method Bias: Nine Common Errors and Their Impact
Andrew Schwarz, Colleen Schwarz, and Tracey Rizzuto

Conducting Qualitative Research in an International and Distributed Research Team: Challenges and Lessons Learned
Rafael Prikладnicki, Roberto Evaristo, Daniela Damian, and Jorge Luis N. Audy
Social Issues in Organizations
Chair: Donald L. Amoroso and Michael Knight

OS 23  Wednesday; Kona 4; 8:00 – 9:30

“Too Many Cooks Spoiling a Soup”? Making Sense of a Distributed, Multi-party IS Project
Riitta Hekkala, Netta Iivari, and Raija Halonen

The Impact of Conflict and Conflict Management Style on Deadbeats and Deserters in Virtual Teams
Kimberly Furumo

Understanding the Relationship between Justice and Team Goal Commitment in Virtual Project Teams: An Empirical Investigation
Eric T. K. Lim and Yu-Ting Caisy Hung

OS 24  Wednesday; Kona 4; 10:00 – 11:30

Information Technology Adoption by Small Businesses in Minority and Ethnic Communities
Sajda Qureshi and Anne S. York

Personality and Technology Acceptance: Personal Innovativeness in IT, Openness and Resistance to Change
Oded Nov and Chen Ye

The Influence of Instant Messaging Usage Behavior on Organizational Communication Satisfaction
Shih-Ming Pi, Yi-Chih Liu, Tsang-Yao Chen, and Shih-Hua Li

Theoretical Approaches to IS Research
Co-Chairs: Scott L. Schneberger and Michael R. Wade

OS 25  Wednesday; Waikoloa 2; 4:00 – 5:30

A Meta-theory for Understanding IS in Socio-technical Systems
Dominic Thomas, Saurabh Gupta, and Robert P. Bostrom

Beyond Cognitions: A Call for Greater Consideration of Emotion in Information Systems Decision Theories
Brent Furneaux and Dorit Nevo

Information System Development: A Categorical Analysis of User Participation Approaches
Angela Mattia and Heinz Roland Weistroffer
Topics in Organizational Systems and Technology
Co-Chairs: Kelly Rainer and Mark Frolick

OS 26 Thursday; King’s 2; 8:00 – 9:30

Information Security Cultures of Four Professions: A Comparative Study
Sriraman Ramachandran, Srinivasan V. Rao, and Tim Goles

Information Technology Skill Management: A Systems Dynamics Approach
Jae Choi, Derek L. Nazareth, and Hemant K. Jain

IT-Benefits-Management in the Swiss Financial Sector
Gerhard Schwabe and Pascal Bänninger

Simplified Use Case Driven Approach (SUCADA) for Conversion of Legacy System to COTS Package
Jose D. Montero, YongSeog Kim, and Jeff Johnson
Software Technology Track

Co-Chairs: Rick Kazman and Gul Agha

Agile Software Development: Lean, Distributed, and Scalable
Co-Chairs: Jeff Sutherland and Hubert Smits

ST 1
Thursday; Kona 3; 8:00 – 9:30

Bridge Methods: Complementary Steps Integrating Agile Development Tools and Methods with Formal Process Methodologies
Stephen J. Cohen and William H. Money

Rolling Out Agile in a Large Enterprise
Gabrielle Benefield

🌟 Great Scrums Need Great Product Owners: Unbounded Collaboration and Collective Product Ownership
Ken H. Judy and Ilio Krumins-Beens

ST 2
Thursday; Kona 3; 10:00 – 11:30

Effects of Agile Methods on Website Quality for Electronic Commerce
David F. Rico

A Case Study: Introducing eXtreme Programming in a US Government System Development Project
Ann Fruhling, Patrick McDonald, and Christopher Dunbar

Retrofitting Cyber Physical Systems for Survivability through External Coordination
Kun Xiao, Shangping Ren, and Kevin Kwiat

Scrum and CMMI Level 5: The Magic Potion for Code Warriors
Jeff Sutherland, Carsten Ruseng Jakobsen, and Kent Johnson

Algorithmic Challenges in Emerging Applications of Computing
Co-Chairs: Linda Morales and Wolfgang Bein

ST 3
Tuesday; Queen’s 4; 8:00 – 9:30

Bounding Prefix Transposition Distance for Strings and Permutations
Bhadrachalam Chitturi and I. Hal Sudborough

Finding a Minimum-Sum Dipolar Spanning Tree in R3
Steven Bitner and Ovidiu Daescu

How Many Attackers Can Selfish Defenders Catch?
Marios Mavronicolas, Burkhard Monien, and Vicky G. Papadopoulou
ST 4  Tuesday; Queen’s 4; 10:00 – 11:30

K-Trunk and Efficient Algorithms for Finding a K-Trunk on a Tree Network
Yamin Li, Shietung Peng, and Wanming Chu

On Finding Bicliques in Bipartite Graphs: A Novel Algorithm with Application to the Integration of Diverse Biological Data Types
Yun Zhang, Elissa J. Chesler, and Michael A. Langston

Towards Fast Incremental Hashing of Large Bit Vectors
Michael Wilder and Clinton Jeffery

ST 5  Tuesday; Queen’s 4; 2:00 – 3:30

Clustering and the Biclique Partition Problem

Knowledge States: A Tool for Randomized Online Algorithms
Wolfgang Bein, Lawrence L. Larmore, and Rüdiger Reischuk

Priority Approximation for Batching
Wolfgang Bein, John Noga, and Jeffrey Wiegley

CERT Software Application Security
Co-Chairs: Robert C. Seacord, Jason Rafail, and Dan Plakosh

ST 6  Wednesday; Kohala 4; 1:00 – 2:30

Building a Test Suite for Web Application Scanners
Elizabeth Fong, Romain Gaucher, Vadim Okun, Paul E. Black, and Eric Dalci

Privacy-Preserving 1-n-p Negotiation Protocol
Sumit Chakraborty, Sushil Kumar Sharma, and Asim Kumar Pal

Presentation Only  Intrusion-Tolerant Dissemination in Large-Scale Systems
Kim P. Kihlstrom, Joel Stewart, Nathaniel T. Lounsbury, Michael C. Magnusson, and Adrian Rogers

ST 7  Wednesday; Kohala 4; 3:00 – 4:30

Moderated Discussion: Software Validation and Verification
Digital Forensics—Pedagogy and Foundational Research Activity

*Co-Chairs: Rayford Vaughn and David Dampier*

**ST 8**  
*Thursday; Kona 2; 8:00 – 9:30*

- Pedagogy and Overview of a Graduate Program in Digital Investigation Management  
  *Gary C. Kessler and Don Haggerty*

- STEALing Lab Support in Digital Forensics Education  
  *Timothy M. Vidas, David A. Branch, and Alex Nicoll*

- Overcoming Impediments to Cell Phone Forensics  
  *Wayne Jansen, Aurélien Delaitre, and Ludovic Moenner*

**ST 9**  
*Thursday; Kona 2; 10:00 – 11:30*

- Skype Fingerprint  
  *Ronald C. Dodge Jr.*

- Using FPGAs to Parallelize Dictionary Attacks for Password Cracking  
  *Yoginder S. Dandass*

- E-Crime Investigative Technologies  
  *Sudhir Aggarwal, Zhenhai Duan, Leo Kermes, and Breno de Medeiros*

- Of Paper Trails and Voter Receipts  
  *Alec Yasinsac and Matt Bishop*

**Enterprise Modeling for Information Systems Development**  

*Co-Chairs: Sergio de Cesare, Mark Lycett, and Alan Serrano*

**ST 10**  
*Thursday; Kona 2; 1:00 – 2:30*

- Towards a Belief-Theoretic Model for Collaborative Conceptual Model Development  
  *Ebrahim Bagheri and Ali A. Ghorbani*

- Enterprise Modeling for Information System Development within MDA  
  *Janis Osis and Erika Asnina*

- Multi-perspective Assessment of Scalability of IT-Enabled Networked Constellations  
  *Zsófia Derzsi, Jaap Gordijn, and Koen Kok*
Wireless Sensor Networks and Applications
Co-Chairs: Edoardo Biagioni and Stephan Olariu

ST 11 Wednesday; Kona 2; 8:00 – 9:30

Distributed Medium Access Control with Flow-Based Priority for Cooperative Multi-hop Wireless Sensor Networks
T. Owens Walker III, Murali Tummala, and John McEachen

Fault-Tolerant \( k \)-Fold Pivot Routing in Wireless Sensor Networks
Doina Bein

Mickey S. Batson, John C. McEachen, and Murali Tummala

ST 12 Wednesday; Kona 2; 10:00 – 11:30

Performance of a Wireless Unattended Sensor Network in a Freshwater Environment
John C. McEachen and Juan Casias

Pruet Boonma and Junichi Suzuki

Macroprogramming Spatio-temporal Event Detection and Data Collection in Wireless Sensor Networks: An Implementation and Evaluation Study
Hiroshi Wada, Pruet Boonma, and Junichi Suzuki