

HICSS-40 SCHEDULE OF PAPER PRESENTATIONS January 4-6, 2007

Minitracks are alphabetized within Tracks (also alphabetized).

COLLABORATION SYSTEMS AND TECHNOLOGY

Co-chairs: Robert O. Briggs and
Jay F. Nunamaker, Jr.

Advances in Teaching and Learning Technologies

Co-Chairs: Eric Santanen and David H. Spencer

CL 1 Saturday
8:00 – 9:30 Queen's 4

Distance Education: Some Differences in Course Type
Chuck Beck and William Benjamin Martz Jr.

Control Structure in Project-Based Asynchronous
Collaborative Learning
Timothy J. Ellis and William Hafner

Faculty Motivators and De-motivators for Teaching Online:
Results of Focus Group Interviews at One University
Starr Roxanne Hiltz, Eunhee Kim, and Peter Shea

CL 2 Saturday
10:00 – 11:30 Queen's 4

Delivering Chalk Talks on the Internet
Satoshi Ichimura

Do Mobile Device Applications Affect Learning?
*Doug Vogel, David Kennedy, Kevin Kuan, Ron Kwok,
and Jean Lai*

✦ An Abstract Transcript Notation for Analyzing
Interactional Construction of Meaning in Online Learning
*Daniel Suthers, Nathan Dwyer, Ravi Vatrapu, and Richard
Medina*

CL 3 Saturday
1:00 – 2:30 Queen's 4

Teacher Bridge: Creating a Community of Teacher
Developers
*Mary Beth Rosson, Daniel R. Dunlap, Philip
Isenhour, and John M. Carroll*

TXT-2-LRN: Improving Students' Learning Experience in
the Classroom through Interactive SMS
Eusebio Scornavacca and Stephen Marshall

Design Experiences with the Learning Objects Board
System
*Patricia Castanheira Dinis Duarte Silva and Alberto
Rodrigues da Silva*

✦ Best Paper Nomination

Collaboration Issues in Cross-Organizational and Cross-Border IS/IT

Co-chairs: Nicholas C. Romano, Jr.,
James B. Pick, and Narcyz Roztocki

CL 4 Friday
10:00 – 11:30 Waikoloa 3

Creating Strategic Value from Supply Chain Visibility –
The Dynamic Capabilities View
Hsiao-Lan Wei and Eric T.G. Wang

An Interoperability Framework for Pan-European
E-Government Services (PEGS)
*Arnold van Overeem, Johan Witters, and Vassilios
Peristeras*

Information Technology and Diversification: How Their
Relationship Affects Firm Performance
Namchul Shin

Collaboration Support for Joint Modeling
Co-chairs: Jaco Appleman, Vlatka Hlupic, and Alan
Serrano

CL 5 Friday
1:00 – 2:30 Waikoloa 3

Joint Reference Modeling: Collaboration Support through
Version Management
Oliver Thomas

Information Losses Within the Collaborative Integration of
Different Process Models – BPML as a XML-Based
Interchange Format for BPMN Business Process Models
Florian Johannsen, Susanne Leist, and Gregor Zellner

Framework for Establishing Enterprise Modeling in the
Context of Collaborative Enterprises
*Thomas Knothe, Timo Kahl, Dieter Boell, and Kristof
Schneider*

Some Considerations of Cognitive Modeling for Collective
Decision Support
Gilles Coppin, Frederic Cadier, and Philippe Lenca

Cultural Issues in Collaboration Technology

Co-chairs: Dongsong Zhang, Doug Vogel,
and Paul Benjamin Lowry

CL 6 Friday
8:00 – 9:30 Waikoloa 3

The Impact of National Culture and Social Presence on Trust and Communication Quality within Collaborative Groups
Paul Benjamin Lowry, Dongsong Zhang, Lina Zhou, and Xiaolan Fu

Immigrants and the Job Search: Comparing the Internet to Other Paths to Jobs
Arent Greve, Janet W. Salaff, and Elic Chan

Does Culture Interact with Media Richness? The Effects of Audio vs. Video Conferencing on Chinese and American Dyads
Leslie D. Setlock, Pablo-Alejandro Quinones, Susan R. Fussell

Designing Collaboration Processes and Systems

Co-chairs: Gert-Jan de Vreede, Robert O. Briggs, and
Gwendolyn Kolfshoten

CL 7 Friday
3:00 – 4:30 Queen's 6

Case studies in Collaboration Engineering

Collaboration Engineering for Incident Response Planning: Process Development and Validation
Mehurz Kamal, Alanah J. Davis, Josephine Nabukenya, Terrance V. Schoonover, Leah R. Pietron, and Gert-Jan de Vreede

How to Increase GSS Transition? A Case Study at a Dutch Police Force
Marielle den Hengst, Lis Weimar, and Stephan O. den Hengst

Designing and Evaluating Collaborative Processes for Requirements Elicitation and Validation
Ann Fruhling, Lucas Steinhauser, Gregory Hoff, and Christopher Dunbar

CL 8 Saturday
8:00 – 9:30 Kona 5

Conceptual and Theoretical Advances in Collaboration Engineering

A Framework For Studying Voting in Group Support Systems
Kung-E Cheng and Fadi P. Deek

✦ Bounded Ideation Theory: A New Model of the Relationship Between Idea-Quantity and Idea-Quality During Ideation
Robert O. Briggs and Bruce A. Reinig

Reconceptualizing Generate thinkLets: The Role of the Modifier
Gwendolyn L. Kolfshoten and Eric L. Santanen

CL 9 Saturday
10:00 – 11:30 Kona 5

Patterns and Work-practices in Collaboration

An Assessment Framework for Developing and Using Patterns in Virtual Project Management
Deepak Khazanchi and Ilze Zigurs

Which Collaboration Patterns Are Most Challenging: A Global Survey of Facilitators
Marielle Den Hengst and Mark Adkins

KnowFlow – A Hybrid Approach to Identifying and Visualizing Distributed Knowledge Work Practices
Markus Strohmaier and Stefanie N. Lindstaedt

CL 10 Saturday
1:00 – 2:30 Kona 5

Case Studies and Experiences in the Design of Collaboration Processes and Systems

Developing Applications and Methodologies for Electronically Facilitated Project Planning: A Coast Guard Case Study
Lionel Mew and William H. Money

Innovating Collaborative Content Creation: The Role of Altruism and Wiki Technology
Christian Wagner and Pattarawan Prasarnphanich

Participant-driven GSS: Quality of Brainstorming and Allocation of Participant Resources
Joel H. Helquist, Eric L. Santanen, and John Kruse

Reducing Group Conflict and Animosity Using Consensus Metadata: An Action Research Study
K. Niki Kunene

CL 11 Saturday
3:00 – 4:30 Kona 5
Social Computing

Perceived Benefits And Concerns of Prospective Users of SmartCampus Location-Aware Community System 'Test-Bed'
Eunhee Kim, Maria Plummer, Starr Roxanne Hiltz, and Quentin Jones

Digital Relationships in the 'MySpace' Generation: Results From a Qualitative Study
Catherine Dwyer

Implementation and Performance of a New Teleconference System by High Definition Omni-Directional Video Transmission Over IP Network
Yosuke Sato, Yuya Maita, Koji Hashimoto, and Yoshitaka Shibata

Emergency Preparedness Information Systems

Co-Chairs: Tung Bui, Murray Turoff, and Bartel Van De Walle

CL12 Friday
8:00 -9:30 King's 1

Modeling Emergency Response Systems

Chair: Murray Jennex

Hybrid Communication Infrastructure and Social Implications for Disaster Management
Raheleh B. Dilmaghani and Ramesh R. Rao

Socio-Technological Systems Integration to Support Tsunami Warning and Evacuation
Richard G. Little, William A. Wallace, Thomas A. Birkland, and Pannapa Herabat

Modeling Emergency Response Systems
Murray E. Jennex

A Tool for Training and Assistance in Emergency Response Planning
Gheorghe Tecuci, Mihai Boicu, Thomas Hajduk, Dorin Marcu, Marcel Barbulescu, Cristina Boicu, and Vu Le

CL 13 Friday
10:00 -11:30 King's 1

Shared Situational Awareness in Emergency Management Mitigation and Response
John Harrald and Theresa Jefferson

Towards a Unified Public Safety Scale
Elizabeth Avery Gomez, Linda Plotnick, Eli Rohn, Jon Kenneth Morgan, and Murray Turoff

IT for Corporate Crisis Management: Findings from a Survey in 6 different Industries on Management Attention, Intention and Actual Use
Koen Millis and Bartel Van de Walle

Community Crisis Response Teams: Leveraging Local Resources through ICT E-Readiness
Elizabeth Avery Gomez and Murray Turoff

Human-Computer Interaction (HCI)

Co-chairs: Joseph S. Valacich and John Wells

CL 14 Thursday
8:00 -9:30 Kona 3

Advice Availability and Gender Differences in Risky Decision Making: A Study of Online Retirement Planning
Clayton Arlen Looney, Robin S. Poston, and Asli Yagmur Akbulut

Fully-Automatic Generation of User Interfaces for Multiple Devices from a High-Level Model Based on Communicative Acts
Juergen Falb, Roman Popp, Thomas Röck, Helmut Jelinek, Edin Arnautovic, and Hermann Kaindl

Supporting Distributed Scientific Collaboration: Implications for Designing the Citeseer Collaboratory
Umer Farooq, Craig H. Ganoë, John Carroll, and C. Lee Giles

Agent-based Human-Computer-Interaction for Real-time Monitoring Systems in the Trucking Industry
Elfrie de Krauth, Jos van Hillegersberg, and Steef van de Velde

CL 15 Thursday
10:00 -11:30 Kona 3

✦ Music Composition Theory and Web Purchases
Younghwa Lee and Kenneth A. Kozar

Fine-Tuning the Human-Computer Interface: Verbal Versus Keyboard Input in an Idea Generation Context
J.H. Jung, Clayton Arlen Looney, and Joseph S. Valacich

Understanding the Intention of Information Contribution to Online Feedback Systems from Social Exchange and Motivation Crowding Perspectives
Yu Tong, Xinwei Wang, and Hock-Hai Teo

✦ Best Paper Nomination

Mobile Technologies and Collaboration

Co-chairs: Joseph S. Valacich and
Clayton Arlen Looney

CL 16 Friday
3:00 – 4:30 Waikoloa 3

Mobile Information and Communication Technologies in
the Context of the Pharmaceutical Sales Force Work
Chihab BenMoussa

Towards a Theoretical Framework for Studying the Effect
of MobileICT on Coordination at the Individual and
Team Levels
David Tilson

Gulliver - A Framework for Building Smart Speech-Based
Applications
*Weiner Kurschl, Stefan Mitsch, Rene Prokop, and
Johannes Schönböck*

Revisiting “Collaboration” under Conditions of “Mobility”
Sutirtha Chatterjee and Suprateek Sarker

Negotiation Support Systems

Co-chairs: Tung Bui and Melvin F. Shakun

CL 17 Friday
1:00 -2:30 King’s 1
Session Chair: Melvin Shakun

Enabling Web Services Policy Negotiation with Privacy
preserved using XACML
*Vivying S.Y. Cheng, Patrick C.K. Hung, and Dickson K. W.
Chiu*

Second-Best Combinatorial Auctions - The Case of the
Pricing-Per-Column Mechanism
*Dirk Neumann, Björn Schnizler, Ilka Weber, and Christof
Weinhardt*

A Template-Based Methodology for Large-Scale HA/DR
Involving Ephemeral Groups: A Workflow Perspective
Tung Bui and Alex Tan

CL 18 Friday
3:00 -4:30 King’s 1
Session Chair: Stony Ishikawa

Comprehensive Urban Planning: A Framework for Group
Decision
Jim Sheffield

User assessment of E-negotiation Systems
*Gregory Kersten, Jamshid Etezadi, Eva Chen, and Rudolf
Vetschera*

Effect of Gender Composition and Negotiation Support
Systems in Dyadic Setting
Zhen Wang and John Lim

Social Cognition and Knowledge Creation Using Collaborative Technologies

Co-chairs: Souren Paul and Derek L. Nazareth

CL 19 Saturday
8:00 -9:30 King’s 1

The Role of a Shared Mental Model of Collaboration
Technology in Facilitating Knowledge Work in Virtual
Teams
Dominic M. Thomas and Robert P. Bostrom

Collective Team Identification in Temporary Virtual Teams
Mary R. Lind

Collaboration Technology Support for Knowledge
Conversion in Virtual Teams: A Theoretical Perspective
Imad Samarah, Souren Paul, and Suresh Tadisina

CL 20 Saturday
10:00 -11:30 King’s 1

How up-to-date are Online Tourism Communities? An
Empirical Evaluation of Commercial and Non-commercial
Information Quality
*Marco Prestipino, Felix-Robinson Aschoff, and Gerhard
Schwabe*

✦ Helping Knowledge Cross Boundaries: Using
Knowledge Visualization to Support Cross-Community
Sensemaking
Jasminko Novak

Applying the Repgrid Technique to Resolve Cognitive
Conflicts Among Experts During Knowledge Capture
*Ananth Chiravuri, Derek Nazareth, and K.
Ramamurthy*

CL 21 Saturday
1:00 - 2:30 King’s 1

Social Decision Making with Multi-Relational Networks
and Grammar-Based Particle Swarms
Marko Rodriguez

Time Pressure and Reward Inspiration as Outcome
Controls for Information Sharing in Problem-Solving
Virtual Teams
Fang He and Souren Paul

Virtual Work, Teams, and Organizations

Co-chairs: Mary Beth Watson-Manheim,
Manju Ahuja, and France Belangery

CL 22 Thursday

8:00 -9:30 Queen's 4

Communication in vts

Session Chair: Richard Potter

✦ Organizational Assimilation of Collaborative Information Technologies: Global Comparisons
Deepinder Bajwa, L. Floyd Lewis, Graham Pervan, Vincent Lai, Bjorn E. Munkvold, and Gerhard Schwabe

Audio vs Chat: The Effects of Group Size on Media Choice
Andreas Löber, Gerhard Schwabe, and Sibylle Grimm

Effective Versus Ineffective Communication Behaviors in Virtual Teams
Daphne M. Dekker and Christel G. Rutte

CL 23 Thursday

10:00 - 11:30 Queen's 4

New Perspectives in Virtual Work

Session Chair: Priscilla Arling

Warm Fronts and High Pressure Systems: Overcoming Geographic Dispersion in a Meteorological Cyberinfrastructure Project
Katherine A. Lawrence, Thomas A. Finholt, and Il-hwan Kim

Redefining and Measuring Virtual Work in Teams: An Application of Social Network Analysis
Priscilla Arling

A Framework for Workgroup Collaboration in a Virtual Environment: Theoretical Synthesis and Empirical Exploration
Ayoung Suh, and Kyung-shik Shin

The Strength of Virtuality in Teams: Social Capital Built on 'Weak Ties'
Keith Dixon and Niki Panteli

CL 24 Thursday

1:00 -2:30 Queen's 4

Processes and Performance in Virtual work

Session Chair: Karen Sobel Lojeskii

Conflicts and Conflict Resolution Mechanisms In Remote Collaboration via Videoconferencing
Andreas Eckhardt and Tobias Keim

Ambidexterity and Global IS Project Success: A Theoretical Model
Gwanhoo Lee, William Delone, and J. Alberto Espinosa

Multi-tasking and Innovation in Virtual Teams
Karen Sobel Lojeski, Richard Reilly, and Peter Dominick

Feedback on Collaborative Skills in Remote Studio Design
Gina Turner and Michael F. Schober

DECISION TECHNOLOGIES AND SERVICE SCIENCES

Chair: Daniel R. Dolk

Agent Technology, Intelligent Systems and Software Computing in Management Support

Co-chairs: Christer Carlsson and Masoud Nikravesh

DT 1 Thursday

8:00 -9:30 King's 1

Introducing Executable Product Models for the Service Industry
Markus Kress, Joachim Melcher, and Detlef Seese

Courier Assignment in Social Networks
Jeffrey V. Nickerson and Stephan Olariu

Dynamic Supply Chain Integration through Intelligent Agents
Minhong Wang, Huaqing Wang, and Jiming Liu

DT 2 Thursday

10:00 -11:30 King's 1

✦ Mining Negotiation Knowledge for Adaptive Negotiation Agents in e-Marketplaces
Raymond Y. K. Lau and On Wang

Ontology-based Knowledge in Interactive Maintenance Guide
Seppo Nyrkkö, Lauri Carlson, Matti Keijola, Helena Ahonen-Myka, Jyrki Niemi, Jussi Piitulainen, Sirke Viitanen, Martti Meri, Lauri Seitsonen, Petri Mannonen, and Jani Juvonen

A Hybrid Knowledge and Model Approach for Reviewer Assignment
Yong-Hong Sun, Jian Ma, Zhi-Ping Fan, and Jun Wang

✦ Best Paper Nomination

DT 3 Thursday
2:00 -3:30 King's 1

Predicting Stock Prices Using a Hybrid Kohonen Self Organizing Map (SOM)
Mark O. Afolabi and Olatoyosi Olude

BDFS: A Real-Time Search Algorithm for Central Office (CO) Optimization
Sethuraman Janardhanan, Ambuj Mahanti, Debashis Saha, and Samir V. Sadhukhan

Applying Graph Search Techniques for Workflow Verification
Sinnakrishnan Perumal and Ambuj Mahanti

Business Models For Mobile Commerce
Co-chairs Matti Rossi and Virpi Kristiina Tuunainen

DT 4 Thursday
8:00 -9:30 Queen's 5

Analysis of Trust in Internet and Mobile Commerce Adoption
Dai-Yon Cho, Hyun Jung Kwon, and Hyoung-Yong Lee

Understanding Changes in Consumer Payment Habits Do Mobile Payments and Electronic Invoices Attract Consumers?
Tomi Dahlberg and Anssi Öörni

Dealing with the Barriers to Performance through Value-Adding Mobile Solutions: Case Study of the Sales Force of a Pharmaceutical Company
Chihab BenMoussa

DT 5 Thursday
10:00 -11:30 Queen's 5

✦ Making Sense of Stories: The Development of a New Mobile Computer Game
Patrick Stacey, Andrew Brown, and Joe Nandhakumar

Mobile TV - To Live or Die by Content
Christer Carlsson and Pirkko Walden

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

DT 6 Friday
8:00 -9:30 Kona 3

Mining Fuzzy Weighted Association Rules
David L. Olson and Yanhong Li

A Cluster-based Approach to Filtering Spam Under Skewed Class Distributions
Wen-Feng Hsiao, Te-Min Chang, and Guo-Hsin Hu

✦ Visualizing Attribute Interdependencies Using Mutual Information, Hierarchical Clustering, Multidimensional Scaling, and Self-organizing Maps
Derek L. Nazareth, Ehsan S. Soofi and Huimin Zhao

DT 7 Friday
10:00 -11:30 Kona 3

Outsourcing Resource Selection: A Rough Set Approach
Dan Zhu, Qiang Meng, and J. Leon Zhao

Patent Mining - Discovery of Business Value from Patent Repositories
Kas Kasravi and Maria Risov

Knowledge Management in Decision Making: Instance-Based Cognitive Mapping
Natalie M. Steiger and David M. Steiger

Intelligent Decision Support for Logistics and Supply Chain Management

Co-chairs: Andreas Fink, Hans-Jürgen Sebastian, and Stefan Voß

DT 8 Saturday
8:00 -9:30 Waikoloa 2

✦ Decision Tools for Reducing Congestion at Locks on the Upper Mississippi River
James F. Campbell, L. Douglas Smith, Donald C. Sweeney II, Ray Mundy, and Robert M. Nauss

A Simulation Model to Evaluate Decision Rules for Lock Operations on the Upper Mississippi River
L. Douglas Smith, Donald C. Sweeney II, and James F. Campbell

Synergies of Data Mining and Operations Research
Stephan Meisel and Dirk Chr. Mattfeld

DT 9 Saturday
10:00 - 11:30 Waikoloa 2

A Convolution Algorithm for Evaluating Supply Chain
Delivery Performance
Alfred Guiffrida, Robert Rzepka, and Mohamad Jaber

The Impact Of Information Technology On The
Temporal Optimization Of Supply Chain Performance
Ken Dozier and David Chang

Using Classifiers to Solve Warehouse Location Problems
Kurt DeMaagd and Scott Moore

**Mobile Value Services: Mobile Technology
Applications and Value-Added
Products and Services**

Co-chairs: Christer Carlsson, Pirkko Walden,
and Masoud Nikraves

DT 10 Thursday
4:00 -5:30 King's 1

The Internet of Things – Context-based Device
Federations
Andreas Heil, Mirko Knoll, and Torben Weis

Offering Mobile Security as a Service
Aki Lassila

✦ An Empirical Assessment of Factors that Influence the
Effectiveness of SMS Advertising
Dimitris Drossos, George M. Giaglis, and George Lekakos

Software Agents and Semantic Web Technologies

Co-chairs: Mark T. Elmore and Thomas E. Potok

DT 11 Saturday
8:00 -9:30 Waikoloa 3

✦ A Methodology to Evaluate Agent Oriented
Software Engineering Techniques
*Chia-En Lin, Krishna M. Kavi, Frederick T. Sheldon, Kris
M. Daley and Robert K. Abercrombie*

Towards Context-Sensitive Domain Ontology Extraction
*Raymond Y.K. Lau, Jin Xing Hao, Maolin Tang, and
Xujuan Zhou*

Ontology Revision on the Semantic Web: Integration of
Belief Revision Theory
Seung Hwan Kang and Sim Kim Lau

Towards the Service Oriented Enterprise

Co-chairs: Haluk Demirkan, Michael Goul,
and George W. Brown

DT 12 Saturday
10:00 -11:30 Waikoloa 3

✦ Value-at-Risk in IT Services Contracts
Rob J. Kauffman and Ryan Sougstad

Formal Specification of Web Service Contracts for
Automated Contracting and Monitoring
Steffen Lamparter, Stefan Luckner, and Sibylle Mutschler

Grid Computing Infrastructures and their Value for
Risk Management
Wolfgang Hackenbroch and Matthias Henneberger

DT 13 Saturday
1:00 -2:30 Waikoloa 3

Towards a Methodology for Service Construction
Joachim Schelp and Robert Winter

iDesign: An Intelligent Design Framework for Service
Innovation
Wei-Feng Tung and Soe-Tysr Yuan

Enhancing Workflow Automation in Insurance
Underwriting Processes with Web Services and Alerts
Raymond C.M. Lee, Kai Pan Mark, and Dickson K.W. Chiu

**DIGITAL MEDIA: CONTENT
AND COMMUNICATION**

Chair: Michael Shepherd

Digital Divide

Chair: Karine Barzilai-Nahon

DM 1 Saturday
8:00 - 9:30 Queen's 6

Social Facilitators and Inhibitors to Online Fluency
Caroline Haythornthwaite

Re-Conceptualizing the Digital Divide: A
Knowledge-Based Approach
William Tibben

A History of Indonesian Telecommunication Reform
1999-2006
Susan Eick

✦ Best Paper Nomination

DM 2 Saturday
10:00 -11:30 Queen's 6

✦ Telecommunications Stakeholder Perceptions of Teledensity: A Comparison of Stakeholders in the Latin American Region to those in Sub-Saharan Africa
Victor Mbarika, Peter Meso, and Philip Musa

Overcoming the Digital Divide through Electronic Commerce: Harnessing Opportunities in IT for Development
Sajda Qureshi and Alanah Davis

Genres of Digital Documents

Co-chairs: Dmitri Roussinov, Kevin Crowston, and Carina Ihlström

DM 3 Saturday
1:00 -2:30 Kona 2

✦ Social Network and Genre Emergence in Amateur Flash Multimedia
John C. Paolillo, Jonathan Warren, and Breanne Kunz

Collection of U.S. Extremist Online Forums: A Web Mining Approach
Yilu Zhou, Jialun Qin, Guanpi Lai, and Hsinchun Chen

DM 4 Saturday
3:00 - 4:30 Kona 2

Characterizing Genres of Web Pages: Genre Hybridism and Individualization
Marina Santini

Information Retrieval and Digital Library Applications

Co-chairs: Ray R. Larson and Fredric C. Gey

DM 5 Friday
3:00 -4:30 Kona 2

✦ Automatic Web Page Categorization using Principal Component Analysis
Richong Zhang, Michael Shepherd, Jack Duffy, and Carolyn Watters

Text Categorization for Aligning Educational Standards
Ozgur Yilmazel, Niranjan Balasubramanian, Sarah C. Harwell, Jennifer Bailey, Anne Diekema, and Elizabeth D. Liddy

Essential Dimensions of Latent Semantic Indexing (LSI)
April Kontostathis

Predicting Query Performance in Domain-Specific Corpora
Surendra Sarnikar, Zhu Zhang, and Leon Zhao

Persistent Conversation:

Co-chairs: Thomas Erickson and Susan C. Herring

DM 6 Thursday
8:00 -9:30 Kona 4

Conversing Through Images

Visual Conversation Styles in Web Communities
David W. McDonald

Colin Mochrie vs. Jesus H. Christ: Messages about Masculinities and Fame in Online Video Conversations
Lori Kendall

Interactive Community Bulletin Boards as Conversational Hubs and Sites for Playful Visual Repartee
Elizabeth F. Churchill and Les Nelson

DM 7 Thursday
10:00 -11:30 Kona 4

Conversation at Work

Juggling Work Among Multiple Projects and Partners
Peter Scupelli, Susan R. Fussell, Sara Kiesler, Pablo Quinones, and Gail Kusbit

Multiplex Conversations Afforded by Technology
Therese Örnberg Berglund

Conversational Coherence in Instant Messaging and Getting Work Done
Stephanie L. Woerner, JoAnne Yates, and Wanda J. Orlikowski

DM 8 Thursday
2:00 -3:30 Kona 4

Visualizing Collaborative Talk

✦ Talk Before You Type: Coordination in Wikipedia
Fernanda Viégas, Martin Wattenberg, Jesse Kriss, and Frank van Ham

Bridging and Persistence in Sustained, Collaborative Problem Solving Online
Johann Sarmiento and Gerry Stahl

Conversation Clock: Visualizing Audio Patterns in Co-Located Groups
Tony Bergstrom and Karrie Karahalios

✦ Best Paper Nomination
40th Hawaii International Conference on System Sciences

DM 9 Thursday
4:00 -5:30 Kona 4

Learning (From) Conversations

Learning Conversations in World of Warcraft
Bonnie A. Nardi, Stella Ly, and Justin Harris

Using Foreign Forums
Yuri Takhteyev

Open Discussion: *Tom Erickson (moderator)*

DM 10 Friday
8:00 -9:30 Kona 4

Blog Talk

✦ Language Networks on LiveJournal
Susan C. Herring, John C. Paolillo, Irene Ramos-Vielba, Inna Kouper, Elijah Wright, Sharon Stoerger, Lois Ann Scheidt, and Benjamin Clark

Corporate Blogging: Building Community through Persistent Digital Talk
Anne Jackson, JoAnne Yates, and Wanda Orlikowski

Search Effectiveness, User Perspectives

Co-chairs: Carolyn Watters and Amanda Spink

DM 11 Friday
1:00 -2:30 Kona 2

Evaluating Usability of a Long Query Meta Search Engine
Isak Taksa and Amanda Spink

User-Based Evaluations of Search Engines: Hygiene Factors and Motivation Factor
Ya-Lan Chuang and Ling-Ling Wu

Knowledge and Choice Uncertainty Affect Consumer Search and Buying Behavior
Theresa Lauraeus-Niinivaara, Timo Saarinen, and Anssi Öörni

Assigned tasks Are Not the Same as Self-Chosen Web Search Tasks
Daniel M. Russell and Carrie Grimes

Using Information: New Technologies, Ways and Means

Co-chairs: Daniel M. Russell and Jonathan Grudin

DM 12 Friday
10:00 -11:30 Kona 4

✦ The Visual Side of Wikipedia
Fernanda B. Viégas

The Social Structure of Tagging Internet Video on del.icio.us
John C. Paolillo and Shashikant Penumarthy

Discovering Web Communities in the Blogspace
Ying Zhou and Joseph Davis

✦ Best Paper Nomination

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DM 13 Friday
1:00 - 2:30 Kona 4

Crossing Boundaries: A Case Study of Employee Blogging
Lilia Efimova and Jonathan Grudin

Exploring the Adoption, Utility, and Social Influences of Social Bookmarking in a Corporate Environment
Laurie E. Damianos, Donna Cuomo, John Griffith, David M. Hirst, and James Smallwood

Web Mash-ups and Patchwork Prototyping: User Driven Technological Innovation with Web 2.0 and Open Source Software
Ingbert R. Floyd, M. Cameron Jones, Dinesh Rathi, and Michael B. Twidale

DM 14 Friday
3:00 - 4:30 Kona 4

Leveraging Social Networks to Motivate Individuals to Reduce their Ecological Footprints
Jennifer Mankoff, Deanna Matthews, Susan R. Fussell, and Michael Johnson

Facilitating Mobile Music Sharing and Social Interaction with Push!Music
Maria Håkansson, Mattias Rost, Mattias Jacobsson, and Lars Erik Holmquist

Personality Matters: Incorporating Detailed User Attributes and Preferences into the Matchmaking Process
Jens Riegelsberger, Scott Counts, Shelly O. Franham, and Bruce C. Philips

ELECTRIC POWER SYSTEMS RESTRUCTURING: ENGINEERING, ECONOMICS AND POLICY

Chair: Robert J. Thomas

Engineering and Economics Interactions

Chair: Shmuel Oren Session Chair: Tim Mount

EP 1 Thursday
8:00 - 9:30 Kohala 2

✦ Identification and Congestion Analysis of Transmission Corridors of the Eastern Interconnection
Aleksandr Rudkevich, Kaan Egilmez, Minghai Liu, Prashant Murti, Poonsaeng Visudhiphan, Richard Tabors, and Thomas J. Overbye

Modeling the Economic Cost of Transmission Bottlenecks
Timothy D. Mount and Jaeuk Ju

A Real Time Price Signal for FACTS Devices to Reduce Transmission Congestion
Judith Cardell

**Electric Power System Monitoring and Control:
Advanced Real-time Measurements**

Chair: Peter W. Sauer
Session Chair: Joe Eto

EP 2 Thursday
10:00 - 11:30 Kohala 2

Electric System-Wide Measurements: North American
Directions
S. E. Widergren, Z. Huang and J. E. Dagle

EIPP Data Management Task Team Architecture
Paul Myrda, Erich Gunther, Mel Gehrs and Jerry Melcher

✦ Advances in the SuperCalibrator Concept - Practical
Implementations
*A.P. Sakis Meliopoulos, George J. Cokkinides, Floyd
Galvan,
Bruce Fardanesh, and Paul Myrda*

Visualization and Characterization of Stability Swings via
GPS-Synchronized Data
*George J. Cokkinides, A.P. Sakis Meliopoulos, George
Stefopoulos, Ramiz Alaileh and Apurva Mohan*

Complex Interacting Infrastructure Systems

Minitrack Chair: Ian Dobson
Session Chair: Ian Dobson

EP 3 Thursday
2:00 - 3:30 Kohala 2

Analyzing Cross-Sector Interdependencies
James P. Peerenboom and Ronald E. Fisher

Optimizing Investment for Recovery in Interdependent
Infrastructures
*Ningxiong Xu, Linda K. Nozick, Mark A. Turnquist and
Dean A. Jones*

Interdependent Risk in Interacting Infrastructure Systems
*B. A. Carreras, D. E. Newman, Paul Gradney, V. E.
Lynch and I. Dobson*

Stochastic Model for Power Grid Dynamics
Marian Anghel, Kenneth A. Werley, Adison E. Motter

**Engineering and Economics Interactions:
Market Design and Reliability**

Mini-track Chair: Schmuel Oren
Session Chair: Richard Tabors

EP 4 Thursday
4:00 - 5:30 Kohala 2

A Probabilistic Graphical Approach to Computing
Electricity Price Duration Curves under Price and Quantity
Competition
Pascal Michailat and Schmuel Oren

Delta Hedging Energy Portfolios: an Exploratory Study
*Richard Goldberg, James Read, Art Altman, and Rémi
Audouin*

Generators' Bidding Behavior in the NYISO
Day-Ahead Wholesale Electricity Market
Ning Zhang, Timothy Mount, and Richard Boisvert

Elementary Analysis of Energy Options for Resource
Adequacy
Robert Entriken

**Electric Power System Monitoring and Control:
Communication and Sensor Networks**

Minitrack Chair: Peter W. Sauer
Session Chair: Mladen Kezunovic

EP 5 Friday
8:00 - 9:30 Kohala 2

The Next Generation of Monitoring and Control Systems
Using Synchronized Sampling Technology and
Multifunctional IEDs
Mladen Kezunovic

On the Communication Architecture for Wide-Area
Real-Time Monitoring in Power Networks
*Shrut Kirti, Zhifang Wang, Anna Scaglione, Robert
Thomas*

Benefits of Synchronized-Measurement Technology
for Power-Grid Applications
*Damir Novosel Khoi Vu, Virgilio Centeno, Srdjan Skok,
and Miroslav Begovic*

**Engineering and Economics Interactions:
The Restructuring Process**

Chair: Shmuel Oren
Session Chairs: Hugh Outhred and Phil Fedora

EP 6 Friday
10:00 - 11:30 Kohala 2
Session Chair: Tim Mount

New England's Wholesale Electricity Market, Six Years
Later
Carrie Conaway and Philip A. Fedora

Colombia Firm Energy Market
Peter Cramton and Steven Stoft

Electricity Industry Restructuring in Australia: Underlying
Principles and Experience to Date
Hugh Outhred

Cyber and Physical Security

Minitrack Chair: Carl Hauser
Session Chair: Carl Hauser

EP 7 Friday
1:00 - 2:30 Kohala 2
Session Chair: Tim Mount

Addressing IT Security for Critical Control Systems
Martin Naedele

✦ United Architecture for Large-Scale Attested Metering
*Micheal LeMay, George Gross, Carl Gunter, and Sanjam
Garg*

Leveraging Computational Grid Technologies for Building
a Secure and Manageable Power Grid
*Himanshu Khurana, Mohammad Maifi Hasan Khan, and
Von Welch*

**Electric Power System Monitoring and
Control: EMS Applications**

Minitrack Chair: Peter W. Sauer
Session Chair: Tom Overbye

EP 8 Friday
3:00 - 4:30 Kohala 2

✦ Towards Reliable Computation of Large-Scale
Market-Based Optimal Power Flow
Hongye Wang and Robert J. Thomas

✦ Adaptive Influence Distance Algorithm for Contouring
Bus-Based Power System Data
David O. Savageau and Thomas J. Overbye

Analog and Hybrid Computation Approaches for Static
Power Flow
Aaron St. Leger and Chika O. Nwankpa

E-GOVERNMENT

Chair: Hans J. (Jochen) Scholl
Electronic Democracy
Co-chairs: Suzanne Beaumaster, Anne Macintosh,
and Eric Welch

EG 1 Thursday
2:00 – 3:30 Kohala 1

A Framework for Assessing eParticipation Projects and
Tools
*Efthimios Tambouris, Naoum Liotas, and Konstantinos
Tarabanis*

Smartocracy: Social Networks for Collective Decision
Making
*Marko A. Rodriguez, Daniel J. Steinbock, Jennifer H.
Watkins, Carlos Gershenson, Johan Bollen, Victor
Grey, and Brad deGraf*

✦ An Observational Study of Voters on the Internet
Scott A. Robertson, Christine E. Wania, and S. Joon Park

E-Government Emerging Topics

Co-chairs: Theresa A. Pardo, Jeremy Millard,
and Hans J. Scholl

EG 2 Thursday
8:00 – 9:30 Kohala 1

The Indicator Browser: A Web-Based Interface for
Visualizing UrbanSim Simulation Results
Yael Schwartzman and Alan Borning

E-Government in Transition Countries: Prospects and
Challenges
Mysore Ramaswamy and Audrey N. Selian

✦ Towards Ubiquitous Government Services through
Adaptations with Context and Views in Three-tier
Architecture
*Dickson K. W. Chiu, Dan Hong, S. C. Cheung, and
Eleanna Kafeza*

✦ **Best Paper Nomination**

EG 3 Thursday
10:00 – 11:30 Kohala 1

Similarities and Differences of E-Commerce and E-Government: Insights from a Pilot Study
Karine Barzilai-Nahon and Hans J. Scholl

Examining the Impacts of Institutional Framework on E-Government Infrastructures: A Study of Hong Kong Experiences
Chun Yu and Paul Jen-Hwa Hu

Using the Structured-Case Approach to Build Theory in E-Government
René Riedl, Friedrich Roithmayr, and Bernhard Schenkenfelder

Implementation of Internet Technology for Local Government Website: Design Guidelines
Hyung Nam Kim, Andreas Kavanaugh, and Tonya L. Smith-Jackson

E-Government Information and Knowledge Management

Co-chairs: Maria A. Wimmer, Michael Goul, and Jing Zhang

EG 4 Friday
8:00 – 9:30 Kohala 1

✦ WSMO-PA: Formal Specification of Public Administration Service Model on Semantic Web Service Ontology
Xia Wang, Tomas Vitvar, Vassilios Peristeras, Adrian Mocan, Sotirios K. Goudos, and Konstantinos Tarabanis

Does Visualization Affect Perceptions of Ethically Complex Policy Decisions: An Experimental Study
Deirdre Hahn, Rick Shangraw, Mark Keith, and David Coursey

Managing Citizen Relationships in Disasters: Hurricane Wilma, 311 and Miami-Dade County
Alexander Schellong and Thomas Langenberg

E-Government Information Security

Co-chairs: Gregory White and Stephen Jones

EG 5 Saturday
8:00 – 9:30 Kohala 1

Barriers to Adoption of e-Government
Wm. Art Conklin

Organizational Impacts of Cyber Security Provisions: A Sociotechnical Framework
Anthony Creswell and Shahidul Hassan

Understanding Socio-Technical Environments for Acceptance of Inter-Agency Anti/Counter-Terrorism Information Sharing Systems
Jinkyu Lee, and H. Raghav Rao

✦ **Best Paper Nomination**
40th Hawaii International Conference on System Sciences

EG 6 Saturday
10:00 – 11:30 Kohala 1

✦ Analysis of Payload Based Application Level Network Anomaly Detection
Like Zhang and Gregory White

The Community Cyber Security Maturity Model
Gregory White

An Action Research Program to Improve Information Systems Security Compliance Across Government Agencies
Stephen Smith, Rodger Jamieson, and Donald Winchester

E-Government Infrastructure and Interoperability

Co-chairs: Marijn Janssen, Ralf Klischewski, and Haluk Demirkany

EG 7 Thursday
4:00 – 5:30 Kohala 1

Effective e-Government Process Monitoring and Interoperation: A Case Study on the Removal of Unauthorized Building Works in Hong Kong
Jenny Y.Y. Wong, Dickson K.W. Chiu, and Kai Pan Mark

Cross - Border Public Services: Analysis and Modeling
Vassilios Peristeras, Konstantinos Tarabanis, and Nikos Loutas

✦ Government-Enterprise Ecosystem Gateway (G-EEG) for Seamless e-Government
Elsa Estevez and Tomasz Janowski

E-Government Organization and Management

Co-chairs: Sharon S. Dawes, Christine Leitner, and Thomas A. Horan

EG 8 Friday
1:00 – 2:30 Kohala 1

The Armed Forces Casualty Assistance Readiness Enhancement System (CARES) – A Case Study in Rapid Prototyping and Design for Flexibility
Ernest Wong, William Bland, and Simon R. Goerger

Successful Broadband Projects in the Public Sector – A Service Innovation Perspective
Bendik Bygstad, Gjermund Lanestedt, and Jyoti Choudrie

Issues of Adopting Benefits Management Practices of IT Investments in Municipalities: A Delphi Study in Norway
Tero Päivarinta, Willy Dertz, and Leif Skiftenes Flak

EG 9 Friday
3:00 – 4:30 Kohala 1

E-Government Evaluation: Reflections on Three Organisational Case Studies
Stephen Jones, Zahir Irani, and Amir Sharif

✦ IT Outsourcing for E-Government: Lessons from IT Outsourcing Projects Initiated by Agricultural Organizations of the Korean Government
Junghoon Moon, Gu-Hyun Jung, Miri Chung, and Young Chan Choe

Understanding Context through a Comprehensive Prototyping Experience: A Testbed Research Strategy for Emerging Technologies
J. Ramon Gil-Garcia, Theresa A. Pardo and Andrea Baker

✦ Building a Research-Practice Partnership: Lessons from a Government IT Workforce Study
Sharon S. Dawes and Natalie Helbig

EG 10 Saturday
3:00 – 4:30 Kohala 1

Discussion: Planning Track content for HICSS-41/2008.

E-Government Services and Information

Co-chairs: Anthony M. Cresswell, Kristin R. Eschenfelder, and Kim Viborg Andersen

EG 11 Saturday
1:00 – 2:30 Kohala 1

Investigating Factors Affecting the Adoption of Electronic Toll Collection: A Transaction Cost Economics Perspective
Chun-Der Chen, Yi-Wen Fan, and Cheng-Kiang Farn

Why People e-File (or Don't e-File) Their Income Taxes
Linda M. Gallant, Mary J. Culnan, and Patrick Mcloughlin

✦ Multiple Measures of Website Effectiveness and Their Association with Service Quality in Health and Human Service Agencies
Eric W. Welch and Sanjay Pandey

E-Policy, Law, and Governance

Co-chairs: Robert Krimmer, Keith A. Schildt, and Pirkko Walden

EG 12 Friday
10:00 – 11:30 Kohala 1

Scenario Building for E-Government in 2020: Consolidating the Results from Regional Workshops
Marijn Janssen, Patrick van der Duin, Rene W. Wagenaar, Melanie Bicking, Maria A. Wimmer, Sharon Dawes, and Rimantas Petrauskas

✦ Information Privacy and Trust in Government: A Citizen-Based Perspective from New Zealand
Rowena Cullen and Patrick Reilly

Broadband and E-Government Diffusion
Enrico Ferro, Daniele De Leonardis, and Lucy Dadayan

INFORMATION TECHNOLOGY IN HEALTH CARE

Track Chair: William G. Chismar

Advanced Data Management Tools for Biomedical Informatics

Co-chairs: Hesham H. Ali and Simon Sherman

HC 1 Friday
3:00 – 4:30 Waikoloa 2

Protein Homology Modeling with Heuristic Search for Sequence Alignment
Shing-Hwang Doong

✦ AffyMiner – A Tool for Significant Gene Mining in Affymetrix GeneChip Microarray Data
Guoqing Lu, The Nguyen, Yuannan Xia, Zhaoyi Wang, and Mike Fromm

Virtual CGH: Prediction of Novel Regions of Chromosomal Alterations in Tumor from Gene Expression Profiling
Huimin Geng, Javeed Iqbal, Xutao Deng, Wing C. Chan, and Hesham Ali

A Comparison of Statistical Approaches for Genetic Anticipation with Application to Pancreatic Cancer
Gleb R. Haynatzki, Vera R. Haynatzka, Randall E. Brand, Henry T. Lynch, and Simon A. Sherman

✦ **Best Paper Nomination**

Clinical Process and Data Integration and Evolution

Co-chairs: Jeff Sutherland and
Willem-Jan van den Heuvel

HC 2 Saturday
8:00 – 9:30 Kona 2

Protecting the Exchange of Medical Images in Healthcare
Process Integration with Web Services
*Dickson K. W. Chiu, Patrick C. K. Hung, Vivying
S. Y. Cheng and Eleanna Kafeza*

Using Computer Simulation in Operating Room
Management: Impacts on Process Engineering and
Performance
*Andre Baumgart, Anja Zoeller, Christof Denz,
Hans-Joachim Bender, Armin Heinzl, and
Essameddin Badreddin*

Modular Integration through Aspects: Making Cents of
Legacy Systems
*Celina Gibbs, Daniel Lohmann, Robin Liu,
and Yvonne Coady*

Consumer Health Informatics, Patient Safety and Quality of Practice

Co-chairs: Cynthia LeRouge, Gordana Culjak,
and Thomas A. Horan

HC 3 Friday
8:00 – 9:30 Waikoloa 2

A Multi-Agent Collaborative Framework for Mobile
E-Health
Victor Chan, Pradeep Ray, and Nandan Parameswaran

✦ A Classifier to Evaluate Language Specificity of Medical
Documents
*Trudi Miller, Gondy Leroy, Samir Chatterjee, Jie Fan, and
Brian Thoms*

Balancing Supply and Demand of an Electronic Health
Record in the Netherlands; Not Too Open Systems for
Not Too Open Users
Ton A.M. Spil and Christiaan P. Katsma

Data and Knowledge Management in Health Care

Co-chairs: Donald J. Berndt, Santosh Krishna,
and James Studnicki

HC 4 Thursday
8:00 – 9:30 Waikoloa 2

Challenges in Health Informatics
Michael Shepherd

Ontology Driven CPG Authoring and Execution via a
Semantic Web Framework
Sajjad Hussain and Syed Sibte Raza Abidi

Arricldes: An Architecture Integrating Clinical Decision
Support Models
Kris Verlaenen, Wouter Joosen, and Pierre Verbaeten

✦ **Best Paper Nomination**
40th Hawaii International Conference on System Sciences

HC 5 Thursday
10:00 – 11:30 Waikoloa 2

✦ Exploring the Clinical Notes of Pathology Ordering by
Australian General Practitioners: A Text Mining
Perspective
*Zoe Yan Zhuang, Rasika Amarasiri, Leonid Churilov,
Damminda Alahakoon, and Ken Sikaris*

Decision Support in Health Care via Root Evidence
Sampling
Benjamin Perry and Eli Faulkner

Optimizing Regional Aid During Public Health
Emergencies: An Autonomic Resource
Allocation Approach
Hina Arora, T. S. Raghu, and Ajay Vinze

HCI Issues in Healthcare IT

Chairs: Ann Fruhling and E. Vance Wilson

HC 6 Thursday
2:00 – 3:30 Kona 3

✦ Trajectories in Multiple Group Coordination: A
Field Study of Hospital Operating Suites
*Yuqing Ren, Sara Kiesler, Susan Fussell, and
Peter Scupelli*

An Experiment on the Effects of Interruptions on Individual
Work Trajectories and Performance in Critical
Environments
Suzanne P. Weisband, Kelly J. Fadel, and Elisa Mattarelli

Privacy Policy Representation in Web-based Healthcare
Julia B. Earp, Matthew Vail, and Annie Anton

HC 7 Thursday
4:00 – 5:30 Kona 3

Usability Evaluation of a Mobile Medical Information
System for Military Physicians
*Shengnan Han, Franck Tétard, Ville Harkke, and Mikael
Collan*

Human Computer Interaction in the Pre-Hospital Setting
Mark Gaynor, Dan Myung, Raj Patel, and Steven Moulton

Pediatric Electronic Health Record Interface Design: The
PedOne System
Mark Ginsburg

IT Adoption, Implementation, Use and Evaluation in Health Care

Co-chairs: Ton AM Spil, Ken Trimmer,
Cynthia LeRouge, and Carla Wiggins

HC 8 Friday

10:00 – 11:30 Waikoloa 2

Identifying the User in Healthcare Information Systems Research

Alexander J. Mcleod, Jr. and Jan Guynes Clark

Physicians' Resistance toward Healthcare Information Technologies: A Dual-Factor Model

Anol Bhattacharjee and Neset Hikmet

An Investigation of Factors Affecting Technology Acceptance and Use Decisions by Australian Allied Health Therapists

Louise K. Schaper and Graham P. Pervan

HC 9 Friday

1:00 – 2:30 Waikoloa 2

Process, Knowledge, Touchpoints in Mental Health Communities of Practice

Ivor F. Perry

✦ Paper versus Electronic. Challenges Associated with Physicians' Usage of Electronic Medical Records
Virginia Ilie, James F. Courtney, and Craig Van Slyke

How Do Doctors Perceive the Organizing Vision for Electronic Medical Records? Preliminary Findings from a Study of EMR Adoption in Independent Physician Practices

John Lee Reardon and Elizabeth Davidson

HC 10 Saturday

10:00 – 11:30 Kona 2

Information Technology in Health Care Track Planning Meeting

INTERNET AND THE DIGITAL ECONOMY

Track Co-chairs: David R. King and Alan Dennis

Business-to-Business Electronic Commerce

Co-chairs: Fu-ren Lin, Judith Gebauer,
and Michael J.P. Shaw

IN 1 Saturday

3:00 – 4:30 Waikoloa 3

A Survey of B2B Methodologies and Technologies: From Business Models towards Deployment Artifacts

Jürgen Dorn, Christoph Grün, Hannes Werthner, and Marco Zapletal

Tendering Process Model (TPM) Implementation for B2B Integration In a Web Services Environment

Lick Lun Nick Ng, Dickson K. W. Chiu and Patrick C. K. Hung

B-to-B E-Commerce: Assessing the Impacts of RFID Technology in a Five Layer Supply Chain

Ygal Bendavid, Elisabeth Lefebvre, Louis A. Lefebvre and Samuel Fosso Wamba

Cyber-Threats and Emerging Risks

Co-chairs: Eliot Rich, Jose Gonzales, and Guido Schryen

IN 2 Thursday

8:00 – 9:30 King's 2

On the Development of an Internet-Centric Defense to Internet Worms

Scott E. Coull and Boleslaw K. Szymanski

The Use of Attack and Protection Trees to Analyze Security for an Online Banking System

Kenneth Edge, Richard Raines, Michael Grimaila, Rusty Baldwin, Robert Bennington, and Christopher Reuter

Armed for the Spam Battle: A Technological and Organizational Infrastructure Framework

Guido Schryen

IN 3 Thursday

10:00 – 11:30 King's 2

Emergent Vulnerability in Integrated Operations: A Proactive Simulation Study of Risk and Organizational Learning

Eliot Rich, Finn Olav Sveen, Ying Qian, Stefanie A. Hillen, Jazair Radianti, and Jose J. Gonzalez

User Security Behavior on Wireless Networks: An Empirical Study

Tim Chenoweth, Robert Minch, and Sharon Tabor

An Outcome-Based Learning Model to Identify Emerging Threats: Experimental and Simulation Results

Ignacio J. Martinez-Moyano, Stephen H. Conrad, and David F. Andersen

✦ Best Paper Nomination

Delivering Online Service

Co-chairs: Mary Tate and Beverley Hope

IN 4 Friday

1:00 – 2:30 Kohala 3

Identifying Barriers to Using Business-To-Employee (B2E) Portals: Some Lessons Learned From an Australian University
Md Mahbubur Rahim

Perceived Service Quality in a University Web Portal: Revising the E-Qual Instrument
Mary Tate, Joerg Evermann, Beverley Hope and Stuart Barnes

What Motivates Engagement in Collaborative Information Systems
James B. Freedman

IN 5 Friday

4:00 – 5:30 Kohala 3

Managing eBusiness Continuity: Formulating an Appropriate Strategy to Manage System Scalability
Roman M. Wong, Cretson L. Dalmadge, and Anne M. Fiedler

Discussion: Customer-Focused Processes and Applications

Electronic Customer Relationship Management

Co-chairs: Nicholas C. Romano, Jr., Jerry Fjermestad, Lutz Kolbe, and Susanne Glissman

IN 6 Saturday

8:00 – 9:30 Kohala 3

Performance Monitoring of CRM Systems
Sonja Grabner-Kraeuter, Gernot Moedritscher, Martin Waiguny, and Werner Mussnig

✦ A Study on Developing CRM Scorecard
Hyung-Su Kim and Young-Gul Kim

Voids in the Current CRM Literature: Academic Literature Review and Classification (2000- 2005)
Kristel Paulissen, Koen Milis, Malaika Brengman, Jerry Fjermestad, and Nicholas C. Romano Jr.

✦ Best Paper Nomination

40th Hawaii International Conference on System Sciences

IN 7 Saturday

10:00 – 11:30 Kohala 3

How New Network Markets Emerge: A Comparative Analysis of the Mobile Internet in Japan and Europe
Michael Haas

The Effects of Mobile Customer Relationship Management on Customer Loyalty: Brand Image Does Matter
Ja-Shen Chen and Russell K.H. Ching

A Study of Intention to Continuous Use of Online Financial Services: The Mediated Effects of Website Trust
Shih-Ming Pi, Shih-Hua Li, Tsang-Yao Chen and Hui-Min Chen

Electronic Marketing

Co-chairs: Bruce D. Weinberg, Ajit Kambil, Arnold Kamis, and Marios Koufaris

IN 8 Saturday

1:00 – 2:30 Kohala 3

Product Heterogeneity: Moderating Effect on Online Consumer Behavior
Young Chan Choe, Deok-Ran Hwang, Miyoung Kim, and Junghoon Moon

✦ The Impact of Additional Electronic Word-of-Mouth on Sales of Micro-products over Time: A Longitudinal Analysis of Amazon Shorts
Naveen Amblee and Tung Bui

Stay Out of My Forum! Evaluating Firm Involvement in Online Ratings Communities
Neveen Farang Awad and Jian Zhang

IN 9 Saturday

3:00 – 4:30 Kohala 3

The Influence of Online Brand Community Characteristics on Community Commitment and Brand Loyalty
H. Y. Jang, I. S. Ko and J. Koh

Cognition, Emotion, Satisfaction, and Post-Adoption Behaviors of E-service Customers
Sopheha Chea and Margaret Meiling Luo

Ethical, Legal and Economic Issues in the Digital Economy

Co-chairs: Alok Gupta and Ramnath Chellappa

IN 10 Thursday

8:00 – 9:30 Waikoloa 3

An Empirical Analysis of Fraud Detection in Online Auction: Credit Card Phantom Transaction
Myungsin Chae, Seonyoung Shim, Hyungjun Cho, and Byungtae Lee

The Social Efficiency of Fairness: An Information Economics Approach to Innovation
Gavin Clarkson and Marshall Van Alstyne

Information Systems Security

Co-chairs: Gurpreet Dhillon, Raj Sharman,
and Mikko T. Siponen

IN 11 Friday
8:00 – 9:30 King's 2

Security Ontologies: Improving Quantitative Risk Analysis
*Andreas Ekelhart, Stefan Fenz, Markus Klemen,
and Edgar Weippl*

Employees' Behavior towards IS Security
Policy Compliance
Seppo Pahlila, Mikko Siponen, and Adam Mahmood

Understanding Hidden Information Security Threats:
The Vulnerability Black Market
Jaziar Radianti and Jose J. Gonzalez

IN 12 Friday
10:00 – 11:30 King's 2

A Trust Based Information Dissemination Model for
Evaluating the Effect of Deceptive Data
Yi Hu, Zhichun Xiao, and Brajendra Panda

Identifying Governance Dimensions to Evaluate
Information Systems Security in Organizations
Gurpreet Dhillon, Gurvirender Tejay, and Weiyin Hong

IN 13 Friday
1:00 – 2:30 King's 2

Development of a Conceptual Framework for Managing
Identity Fraud
Rodger Jamieson, Donald Winchester, and Stephen Smith

Insuring Big Losses Due to Security Breaches
Through Insurance: A Business Model
*Arunabha Mukhopadhyay, Samir Chatterjee, Rahul Roy,
Debashis Saha, Ambuj Mahanti, and Samir K. Sathukhan*

E-risk Management through Self Insurance: An Option
Model
*Arunabha Mukhopadhyay, Binay Bhushan
Chakrabarti, Debashis Saha, and Ambuj Mahanti*

Interactive Digital Entertainment, Social Computing and Lifestyle Computing

Co-chairs Paul Benjamin Lowry and Scott McCoy

IN 14 Friday
3:00 – 4:30 Queen's 4

The Interactive Digital Entertainment (IDE) Unification
Framework: Creating a Taxonomy of IDE and Lifestyle
Computing
Greg Moody, Taylor Wells, and Paul Benjamin Lowry

Simulating Indirect Network Effects in the Video Game
Market
*Jochen Strube, Sven Schade, Patrick Schmidt, and
Peter Buxmann*

A Longitudinal Study of Game Perceptions from the
Perspective of Yin-Yang Theory
Eui Jun Jeong and Dan J. Kim

✦ The Effects of Users' Motivation on their Perception
to Trading Systems of Digital Content Accessories:
Focusing on Trading Items in Online Games
*Boreum Choi, Inseong Lee, Kiho Lee, Seungki Jung, Sunju Park, and
Jinwoo Kim*

Internet Security – Intrusion Detection and Prevention in Mobile Systems

Co-chairs: Joseph Tront and Randy Marchany

IN 15 Saturday
1:00 – 2:30 Queen's 6

Towards a Taxonomy of Vulnerabilities
Anil Bazaz and James D. Arthur

✦ Battery-Sensing Intrusion Protection for Wireless
Handheld Computers using a Dynamic Threshold
Calculation Algorithm for Attack Detection
*Timothy K. Buennemeyer, Faiz Munshi, Randy
Marchany, and Joseph G. Tront*

A Survey of Location Privacy and an Approach for
Solitary Users
Calvert L. Bowen III and Thomas L. Martin

Screening Mobile Devices to Examine Network Health
*Grant A. Jacoby, J. Scot Ransbottom, Thadeus
Hickman, and Maxwell Potasznik*

Open Source Software Development
Co-chairs: Kevin Crowston and Hala Annabi

IN 16 Thursday
4:00 – 5:30 Queen's 4

Sampling in Open Source Software Development: The Case for Using the Debian GNU/Linux Distribution
Sebastian Spaeth, Matthias Stuermer, Stefan Haefliger, and Georg von Krogh

Analysis of Activity in the Open Source Software Development Community
Scott Christley and Gred Madey

Patch Review Processes in Open Source Software Development Communities: A Comparative Case Study
Jai Asundi and Rajiv Jayant

Recommender Systems

Co-chairs: Hannes Werthner, Hans Robert Hansen, and Francesco Ricci

IN 17 Saturday
3:00 – 4:30 Waikoloa 2

Recommender Systems based on an Active Data Warehouse with Text Documents
Carsten Felden and Peter Chamoni

Context-Based Recommender Systems in Conventional Grocery – An Economic Analysis
Daniel Ch. Buser

Consumers' Interest in Personalized Recommendations: The Role of Product-Involvement and Opinion Seeking
Nicolas Knotzer and Maria Madlberger

Extending the Applicability of Recommender Systems: A Multilayer Framework for Matching Human Resources
Tobias Keim

Standards and Standardization

Co-chairs: Joel West and Kalle Lyytinen

IN 18 Thursday
2:00 – 3:30 Water's Edge Boardroom

The Emergence of Standards: A Meta-Analysis
Geerten van de Kaa, Henk Jan de Vries, Eric van Heck and Jan van den Ende

Organizational Assimilation of Vertical Standards: An Integrative Model
Ruben A. Mendoza and T. Ravichandran

Software Platforms – How to Win the Peace
Tim Romberg

Technology and Strategies for Realizing Service-Oriented Architectures with Web Services

Co-chairs: William Dave Haseman, Marc N. Haines, and Frank Armour

IN 19 Saturday
8:00 – 9:30 Kona 4

A Service-Oriented Data Integration and Analysis Environment for In Silico Experiments and Bioinformatics Research

Xiaorong Xiang, Gregory Madey, and Jeanne Romero-Severson

✦ Does SOA Improve the Supply Chain? An Empirical Analysis of Impact of SOA Adoption on Electronic Supply Chain Performance
Sanjeev Kumar, Vijay Dakshinamoorthy, and M.S. Krishnan

Binding Now or Binding Later: The Performance of UDDI Registries

M. Brian Blake, Amy Lynn Sliva, Michael zur Muehlen, and Jeffrey V. Nickerson

IN 20 Saturday
10:00 – 11:30 Kona 4

Towards Co-Design of Business Processes and Information Systems Using Web Services
Karthikeyan Umamathy

The impact of Service-Oriented Application Development on Software Development Methodology
Marc N. Haines

Service-Oriented Software Reengineering: SoSR
Sam Chung, Joseph Byung Chul An, and Sergio Davalos

Value Webs in the Digital Economy

Co-chairs: Helmut A.O. Krcmar, Kalle Lyytinen,
and Jan Marco Leimeister

IN 21 Saturday
1:00 – 2:30 Waikoloa 2

Bridging Business Value Models and Process Models in
Aviation Value Webs via Possession Rights
Vincent Pijpers and Jaap Gordijn

The Impact of Value on Alliance Governance Decisions
for IT-based Alliances: Evidence from a Joint Venture in
the Wireless Networks Industry
Adamantia G. Pateli and George M. Giaglis

Strategic Analysis Using Value Modeling – The c3-Value
Approach
*Hans Weigand, Paul Johannesson, Birger Andersson,
Maria Bergholtz, Ananda Edirisuriya, and Tharaka
Ilayperuma*

Value Capture and Value Networks in Open Source
Vendor Strategies
Joel West

Virtual Communities

Chair: Karine Barzilai-Nahon
IN 22 Friday
8:00 – 9:30 Queen's 4

A System Dynamics Approach to Study Virtual
Communities
Yan Mao, Julita Vassileva, and Winfried Grassman

False Information in Internet Auction Communities
Oliver Hinz

An Empirical Study of Web-Based Knowledge
Community Success
*Hui Lin, Weiguo Fan, Linda Wallace, and
Zhongju Zhang*

IN 23 Friday
10:00 – 11:30 Queen's 4

✦ Connected Giving: Ordinary People Coordinating
Disaster Relief on the Internet
*Cristen Torrey, Moira Burke, Matthew Lee, Anind Dey,
Susan Fussell, and Sara Kiesler*

An On-Line Community as a New Tribalism: the World of
Warcraft
Thomas W. Brignall III and Thomas L. Van Valey

The Effect of Individual Needs, Trust and Identification in
Explaining Participation Intentions in Virtual Communities
Juan Juan Han, Raymond Jun Zheng, and Yunjie Xu

IN 24 Friday
1:00 – 2:30 Queen's 4

The Future of Work: What Does Online Community Have
to Do with It?
Dejin Zhao, Mary Beth Rosson, and Sandeep Purao

It's All News to Me: The Effect of Instruments
on Ratings Provision
Cliff Lampe and R. Kelly Garrett

KNOWLEDGE MANAGEMENT SYSTEMS

Track Co-Chairs: Murray Jennex
and Dave Crossdell

Ethical and Philosophy in KM

Co-chairs: Robert Mason and Jim Sheffield

KM 1 Thursday
10:00 – 11:30 Waikoloa 3

A Look into the Relationship between Knowledge
Management and the Knowledge Hierarchies
Judith Carlisle

Surfacing the Philosophical Assumptions of KM
Frameworks
Jim Sheffield and Edward Lau

Discussion: Lack of Ethics in KM
Moderator: Robert Mason

**Knowledge Management for Multi- and
Cross- Disciplinary Research Projects**
Co-chairs: Pieter J. Beers and Pieter W.G. Bots

KM 2 Friday
8:00 – 9:30 Kohala 3

Build Up Organizational Innovativeness: An Integrated
View
Mohamed Khalifa, Angela Yan Yu, and Kathy Ning Shen

Antecedents to Relational and Nonrelational Source Use:
An Exploratory Investigation
J. Christopher Zimmer and Raymond M. Henry

Eliciting Conceptual Models to Support Interdisciplinary
Research
Pieter J. Beers and Pieter W.G. Bots

✦ Best Paper Nomination

**Knowledge Flows, Transfer, Sharing
and Exchange in Organizations**

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

KM 3 Saturday
8:00 – 9:30 Kohala 4

Prediction of Information Sharing Behavior in China:
Understanding the Cultural And Social Determinants
*Jessica Pu Li, Seung Kyoon Shin, and G. Lawrence
Sanders*

A Theoretical Perspective on Effective Interorganizational
Knowledge Sharing
*Nongkran Lertpittayapoom, Souren Paul, and Peter
Mykytyn Jr.*

Panel Discussion: Critical Research Issues in
Knowledge Flow, Transfer, and Exchange

KM 4 Saturday
10:00 – 11:30 Kohala 4

✦ Analyzing Knowledge Transfer Effectiveness – An
Agent-Oriented Modeling Approach
*Markus Strohmaier, Eric Yu, Jennifer Horkoff, Jorge
Aranda, and Steve Easterbrook*

The Dimensions of Tacit and Explicit Knowledge: A
Description and Measure
Michael A. Chilton and James Bloodgood

Inter-Organizational Knowledge Transfer in the
Buyer-Supplier Relationships: A Buyer's Perspective
Sung-Byung Yang and Young-Gul Kim

KM 5 Saturday
1:00 – 2:30 Kohala 4

Building a Learning Organization: Three Phases of
Communities of Practice in a Software Consulting
Company
*Aase Mestad, Rune Myrdal, Torgeir Dingsøy, and
Tore Dybå*

A Conceptual Framework for Knowledge Integration in
Distributed Networks of Practice
Eli Hustad

Path to “Stardom” in Globally Distributed Teams: An
Examination of a Knowledge-Centered Perspective
Using Social Network Analysis
*Soanee Sarker, Sarah Kirbey, and Suranjan
Chakraborty*

KM 6 Saturday
3:00 – 4:30 Kohala 4

How Good is the Advice You Receive? The Influence of
Social Value Orientation and Knowledge Asymmetry on
the Formulation of Advice
Samantha P.L. Lee and Marcus O'Connor

Neither Here Nor There: Knowledge Sharing and Transfer
with Proactive Structuration
Terri L. Griffith, Mark A. Fuller, and Gregory B. Northcraft

Organizational Metacognition: the Importance of Knowing
the Knowledge Network
John P. Looney and Mark E. Nissen

**Knowledge Management / Organizational Memory:
Success and Performance Measurements**

Co-chairs: Murray Jennex, Stefan Smolnik,
and Dave Croasdell

KM 7 Thursday
8:00 – 9:30 Kohala 4

Modeling Enablers for Successful KM Implementation
Vittal S. Anantatmula and Shivraj Kanungo

Measuring Knowledge Management Projects: Fitting the
Mosaic Pieces Together
Alton YK Chua and Dion Goh

Influence of System, Environment, and Procedures on
Knowledge Submission Frequency
Alexandra Durcikova and Susan A. Brown

KM 8 Thursday
10:00 – 11:30 Kohala 4

An Empirical Investigation of the Customer Knowledge
Creation Impact on NPD Performance
Nassim Belbaly, Hind Benbya, and Régis Meissonier

✦ Group Invariance: Culture, KM & IT Capabilitiy
Perceptions
Ronald Freeze

Towards Defining Knowledge Management Success
Murray Jennex, Stefan Smolnik, and David Croasdell

KM 9 Thursday
2:00 – 3:30 Kohala 4

The Influence of Information Linkage on User Acceptance of a Knowledge Management System (KMS) in Small to Mid-Size Enterprises (SME)
Robert Judge

Supporting Knowledge and Expertise Finding within Australia's Defence Science and Technology Organisation
Paul Prekop

The Mediating Roles of Knowledge Management in Translating the Firm's Learning Orientation and Market Orientation to Business Performance
David Di Zhang, Subramanian Sivaramakrishnan, Marjorie Delbaere, and Edward K. Bruning

KM 10 Thursday
4:00 – 5:30 Kohala 4

Converting Project Team Experience to Organizational Learning: A Case Study
Lynne P. Cooper

Discussion

Modeling Knowledge Intensive Processes

Co-chairs: Balasubramaniam Ramesh and Lan Cao

KM 11 Friday
8:00 – 9:30 Kohala 4

Effectively Complying with Sarbanes-Oxley in Dynamic Business Environments: A Knowledge Traceability Approach
Anthony Vance

Network Subnetting: An Instance of Technical Problem Solving in Kolb's Experiential Learning Cycle
Arnold Kamis and Heikki Topi

✦ Pruning Bio-Ontologies
Jong Woo Kim, Jordi Conesa Caralt, and Julia K. Hilliard

Reuse of Process Knowledge in Enterprise Systems Development
Eunhee Park and Han G. Woo

KM 12 Friday
10:00 – 11:30 Kohala 4

Facilitating Interdisciplinary Modelling of Complex Problems
Igor Nikolic, Pieter J. Beers, and Gerard P.J. Dijkema

Ontology Driven Requirements Query
Jordi Conesa Caralt and Jong Woo Kim

Using Systems Dynamics to Explore Effects of Counterterrorism Policy
Tara Leweling and Otto Sieber

✦ Best Paper Nomination

Social and Distributed Cognition in Knowledge Management Systems

Co-chairs: Susan Gasson and James Waters

KM 13 Friday
10:00 – 11:30 Kohala 3

✦ Leveraging and Limiting Practical Drift in Emergency Response Planning
Steven R. Haynes, Wendy A. Schafer, and John M. Carroll

Embedding New IT Artifacts into Design Practice for Knowledge Creation
Ryan Baxter and Nicholas Berente

Distributed Knowledge Construction in an Online Community of Inquiry
James Waters and Susan Gasson

Potentials of Social Networks for Knowledge Management with Regard to the Development of Stable Competences and Dynamic Capabilities – Conceptualization and Case Study Results
Harald F.O. Vonkortzfleisch, Ines Mergel, and Christian Proll

Technological Aspects of KM

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

KM 14 Friday
1:00 – 2:30 Kohala 4

The Co-Evolution of Design and User Requirements in Knowledge Management Systems: The Case of Patent Management Systems
Tony Briggs, Bala Iyer, and Paul Carlile

A Multi-Agent Model to Develop Knowledge Management Systems
Aurora Vizcaíno, Juan Pablo Soto, Javier Portillo, and Mario Piattini

✦ Assessing User Acceptance of a Knowledge Management System in a Global Bank: Process Analysis and Concept Development
Cristof Bals, Stefan Smolnik, and Natalie M. Steiger

KM 15 Friday
3:00 – 4:30 Kohala 4

Decision Support as Knowledge Creation: An Information System Design Theory
David M. Steiger and Natalie M. Steiger

Knowledge Management: Using Topic Maps in Organizational Memory
Les Miller, Sree Nilakanta, Yunan Song, Lei Zhu, and Ming Hua

Supporting Knowledge Transfer through Decomposable Reasoning Artifacts
William Pike, Richard May, and Alan Turner

ORGANIZATIONAL SYSTEMS AND TECHNOLOGY

Tack Chair: Hugh J. Watson

Benefits Management

Co-chairs: Pieter Ribbers, Koen Milis, and Stijn Viaene

OS 1a Thursday
2:00 – 3.30 Waikoloa 3

Keynote: John Ward, Cranfield University

Managing Benefits from IS/IT Investments: an Empirical Investigation into Current Practice

John Ward, Steven De Hertogh, and Stijn Viaene

Investing in Networkability to improve Supply Chain Performance

Wim Huisman and Martin Smits

OS 1b Thursday
4:00 – 5:30 Waikoloa 3

Benefits Management and Strategic Alignment in an Outsourcing Context

Joost van Lier and Ton Dohmen

From ERP to Advanced Resource Planning: Improving Operational Performance by Getting the Inputs Right

Inneke Van Nieuwenhuysse, Liesje De Boeck, Nico Vandaele, and Marc Lambrecht

Discussion

Competitive Strategy, Economics and IS

Co-chairs: Robert J. Kauffman, Eric K. Clemons, and Rajiv M. Dewan

OS 2 Thursday
8:00 – 9:30 Kohala 3

Technology Investment and Competitive Strategy

Software as a Service: Implications for Investment in Software Development

Vidyanand Choudhary

Competing in the Era of Emergent Architecture: The Case of Packaged Software Industry

Bala Iyer, Chi-Hyon Lee, and David Dreyfus

Modeling Network Decisions under Uncertainty: Countervailing Externalities and Embedded Options

Robert J. Kauffman and Ajay Kumar

OS 3 Thursday
9:00 – 11:30 Kohala 3

Economics and Electronic Commerce

Using Online Competitor's Inventory Information for Pricing

Rajiv Dewan, Marshall Freimer, and Yabing Jiang

✦ Analyzing Online Information Privacy Concerns: An Information Processing Theory Approach
Il-Horn Hann, Kai-Lung Hui, Sang-Yong Tom Lee, and Ivan P.L. Png

OS 4 Thursday
2:00 – 3:30 Kohala 3

Strategies of Outsourcing, IT Alignment and Producer-Consumer Collaboration

Proximity and Software Programming: IT Outsourcing and the Local Market

Ashish Arora and Chris Forman

Business & IT Alignment in Theory and Practice

A.J. Gilbert Silvius

Digital Consumer Networks and Producer-Consumer Collaboration: Innovation in the Digital Entertainment Industry

Reina Y. Arakji and Karl R. Lang

OS 5 Thursday
4:00 – 5:30 Kohala 3

Economics and Transformational Business Processes

✦ Exploring Virtual Integration as an Alternative Governance Mechanism to Supply Chain Integration
Jeffrey C.F. Tai and Eric T.G. Wang

buySAFE: Creating and Profiting from the Bonded Seller Advantage

Eric K. Clemons, Jeff Grass, and Steve Woda

A Retrospective on Information, Strategy, and Economics: After 20 Years at HICSS, What Have We Learned about IT and Strategy?

Eric K. Clemons

Looking Ahead: A Contributor's Perspective on the Next-Stage Advances in Competitive Strategy, Economics and Information Systems Research

Robert J. Kauffman

Data Warehousing and Business Intelligence

Co-chairs: Barbara Wixom and Hugh J. Watson

OS 6 Friday
1:00 – 2:30 Kona 3

Individual Privacy and Organizational Privacy in Business Analytics
Siu Man Lui and Ling Qiu

Architecting a Dimensional Document Warehouse
Greg Schymik, Karen Corral, David Schuff, and Robert St. Louis

The next stage of Operational Business Intelligence: Creating New Challenges for Business Process Management
Olivera Marjanovic

OS 7 Friday
3:00 – 4:30 Kona 3

✦ Organizational Forms of Data Warehousing: An Explorative Analysis
Mario Klesse and Robert Winter

Coordination Network Analysis: A Research Framework for Studying the Organizational Impacts of Service-Oriented Business Intelligence
Mark Keith, Haluk Demirkan, and Michael Goul

Enterprise Architecting: Challenges and Implementations

C-chairs: Frank Armour, Stephen Kaisler, and Jeff Bitner

OS 8 Saturday
8:00 – 9:30 King's 3

Analyzing Enterprise Architecture in National Governments: The Cases of Denmark and the Netherlands
Marijn Janssen and Kristian Hjort-Madsen

✦ Experience Report: Assessing a Global Financial Services Company on its Enterprise Architecture Effectiveness using NAOMI
Bas van der Raadt, Raymond Slot, and Hans van Vliet

The Integrated Enterprise: Enterprise Architecture, Investment Process and System Development
Christopher Emery, Stephanie M. Faison, Jonathan Houk, and John S. Kirk

OS 9 Saturday

10:00 – 11:30 King's 3

Enterprise Information Architecture (EIA): An Assessment of Current Practices in Malaysian Organizations
Rafidah Abd Razak, Zulkhairi Md Dahalin, Rohaya Dahari, Siti Sakira Kamaruddin, and Sahadah Abdullah

Mastering the Integration Chaos Following Frequent M & As: IS Integration with SOA Technology
Stefan Henningsson, Claes Svensson, and Linus Vallén

Enterprise Architecture and IT Governance - A Risk Based Approach
Jim R. Getter

ERP / EAI System Issues and Answers

Co-chairs: Gail Corbitt, Marino Themistocleous, and Zahir Irani

OS 10 Friday
10:00 – 11:30 Queen's 5

How Do Investments in Enterprise Application Integration Drive Stock Prices?
Narczyz Roztocky and Heinz Roland Weistroffer

Strategic Value of IS Integration in M&A – the Relation Between IS Integration and M&A as a Tool for Corporate Strategy
Stefan Henningsson

Leveraging Integrated IS for Competitive Advantage
Vincenzo Morabito and Marinos Themistocleous

Process Compliance and Enterprise Systems Implementation
Nicholas Berente, Danail Ivanov, and Betty Vandenbosch

Implementation and Usage of Radio Frequency Identification (RFID)

Co-chairs: Fredrick J. Riggins and Bill Hardgrave

OS 11 Saturday
10:00 – 11:30 King's 2

Data-on-Network vs. Data-on-Tag: Managing Data in Complex RFID Environments
Thomas Diekmann, Adam Melski, and Matthias Schumann

RFID Assimilation Hierarchy
Bill C. Hardgrave, Deborah J. Armstrong, and Cynthia K. Riemenschneider

✦ Strategic and Institutional Perspectives in the Adoption and Early Integration of RFID
Aditya Sharma, Alex Citurs, and Benn Konsynski

✦ Best Paper Nomination

Information Technology for Development

Co-chairs: Sajda Qureshi, Maung K. Sein,
and Peter Wolcott

OS 12 Saturday
1:00 – 2:30 Queen's 5

Scale and Scope Externalities in Growth of IT Industries
in India: An Agglomeration Perspective
Robert J. Kauffman and Ajay Kumar

Open Source Software Adoption in ASEAN Member
Countries
Joshua L. Mindel, Lik Mui, and Sameer Verma

Knowledge Networking for Development: Building Bridges
across the Digital Divide
Sajda Qureshi, Peter Keen, and Mehruz Kamal

Innovation and Innovation Management

Co-chairs: Desai Narasimhalu, Gina Poole,
and Marko Torkkeli

OS 13 Saturday
10:00 – 11:30 Kohala 2

Case Studies in Innovation Session Chair: Gina Poole

The Case of Honda: A Dialectical Yet Coherent Firm
W. David Holford and Mehran Ebrahimi

✦ Innovation Patterns in KIBS Organizations: A Case
Study of Finnish Technical Engineering Industry
Ville Ojanen, Pekka Salmi, and Marko Torkkeli

Innovation in Large-Grained Software Reuse: A Case
from Banking
Paul D. Witman and Terry Ryan

OS 14 Saturday
1:00 – 2:30 Kohala 2

Innovation Management I Session Chair: Dianne Fodell

The Length of the Product Generation Life Cycle as a
Moderator of Innovation Strategy: A Comparative
Cross-Industry Study of Ten Leading Technology-Based
Companies
Frances T.J.M. Fortuin and Simon W.F. Omta

Networked Innovation Management: A Framework and
Case Application
Jouni Koivuniemi and Jan Edelmann

Managing a New Computer Device Development in a
Creative ISO 9001 Certified Company: A Case Study
Wolfgang Molnar and Joe Nandhakumar

OS 15 Saturday
3:00 – 4:30 Kohala 2

Innovation Management II Session Chair: Marko Torkkeli

Case Study in Mobile Internet Innovation: Does
Advertising or Acquaintances Communication Decide
Taiwan's Mobile Internet Diffusion?
Hui-Chih Wang, Yi-Cheng Ku, and Her-Sen Doong

A New Way to Plan for the Future
*Ray Strong, Joseph Ryan, Douglas McDavid, Ying Leung,
Ruoyi Zhou, Eric Strauss, John Bosma, Tony Sabbadini,
David Jarvis, Sonia Sachs, Peter Bishop, and Cody Clark*

Looking for the Locus of Innovation in New Service
Development
Iris Ginzburg, Allen Higgins, and Yossi Lichtenstein

IT and Project Management

Co-chairs: Joseph Weiss, Sue Newell, and Jacky Swan

OS 16 Saturday
8:00 – 9:30 King's 2

Mediating Organizational Innovation: A Study of
Implementation of Digital Technologies in TV News
Tsui-Chuan Lin and Elizabeth Davidson

Communication Patterns over the Project Life Cycle –
Evidence from a Virtual Project Exercise
Antti Nurmi, Pentti Marttiin, and Matti Rossi

Socio-Technical Self-Description as a Means for Projects
of Introducing Computer Supported Cooperation
Thomas Herrmann, Gabriele Kunau, and Kai-Uwe Loser

IT Governance and its Mechanisms

Chair: Wim Van Grembergen

OS 17 Thursday
8:00 – 9:30 Queen's 6

IT Governance in the Light of Paradox – A Social Systems
Theory Perspective
*U Ask, H Björnsson, M. Johansson, J. Magnusson and
A. Nilsson*

The Influence of Alignment on the Post-Implementation
Success of a Core Banking Information System: An
Embedded Case Study
*Daniel Beimborn, Jochen Franke, Heinz-Theo Wagner,
and Tim Weitzel*

Examining the Relationship between IT Governance
Software and Business Value of IT: Evidence from Four
Case Studies
Hauke Heier, Hans P. Borgman, and Mervyn G. Maistry

OS 18 Thursday
10:00 – 11:30 Queen's 6

Prioritising and Linking Business and IT Goals in the Financial Sector
Wim Van Grembergen, Steven De Haes, and Hilde Van Brempt

Aligning IT Strategy with Business Strategy through the Balanced Scorecard in a Multinational Pharmaceutical Company
Richard Bricknall, Gunilla Darrell, Hans Nilsson and Kalevi Pessi

A Metrics Generation Model for Measuring the Control Objectives of Information Systems Audit
Mathew Nicho and Brian Cusack

OS 19 Thursday
2:00 – 3:30 Queen's 6

IT Governance Maturity and IT Outsourcing Degree: An Exploratory Study
Tomi Dahlberg and Pirkko Lahdelma

Control in Outsourcing Relationships: Governance in Action
Erik Beulen and Pieter Ribbers

Outsourcing Relationships: The Contract as IT Governance Tool
Cornelia Gellings

OS 20 Thursday
4:00 – 5:30 Queen's 6

Understanding CIO Role Effectiveness: The Antecedents and Consequents
Daniel O. Chen and David S. Preston

Shaping the Post-Merger Information Systems Integration Strategy
Maria Alaranta and Stefan Hennigsson

Outsourcing of Information Systems

Co-chairs: Benoit Aubert and Suzanne Rivard

OS 21 Thursday
2:00 – 3:30 Waikoloa 2

✦ Contract as a Source of Trust - Commitment in Successful IT Outsourcing Relationship: An Empirical Study
Jahyun Goo and Kichan Nam

Does Interpersonal Trust Also Matter? Exploring the Role of Trust in Successful IT Outsourcing
Qi Cong and Patrick Y.K. Chau

Managing the Outsourcing Marriage to Achieve Success
Hugo Gong, Mary Tate, and Shawn Alborz

OS 22 Thursday
4:00 – 5:30 Waikoloa 2

Is Transaction Cost Economics Theory Able to Explain Contracts Used for and Success of Firm-Wide IT-Infrastructure Outsourcing
Mari Nyrhinen and Tomi Dahlberg

The Formation and Management of a Software Outsourcing Partnership Process
Marianne Kinnula, Vieikko Seppanen, Juhani Warsta, and Sari Vilminko

An Empirical Exploration of How Process Standardization Reduces Outsourcing Risks
Kim Wüllenweber and Tim Weitzel

Research Methods and Applications

Co-chairs: Sajda Qureshi, Doug Vogel, and Kerry Ward

OS 23 Thursday
2:00 – 3:30 King's 2

Articulation Work Supporting Information Infrastructure Design: Coordination, Categorization, and Assessment in Practice
Karen Baker and Florence Millerand

Rescuing Small and Medium-Sized Enterprises from Inefficient Information Systems – a Multi-Disciplinary Method for ERP System Requirements Engineering
Inka Vilpola, Ilkka Kouri, and Kaisa Väänänen-Vainio-Mattila

Enriching Literature Reviews with Computer-Assisted Research Mining. Case: Profiling Group Support Systems Research
Johanna Bragge, Sami Relander, Anne Sunikka, and Petri Mannonen

Presentation Only: Measurement Invariance Assessment in Cross-National Marketing Research: A Status-Quo Analysis of its Application
Yi He, Michael Merz, and Dana Alden

OS 24 Saturday
10:00 – 11:30 Queen's 5

The Significance of Member Validation in Qualitative Analysis: Experiences From a Longitudinal Case Study
Bendik Bygstad and Bjørn Erik Munkvold

Validation in Internet Survey Research: Reviews and Future Suggestions
Hui-Chih Wang and Her-Sen Doong

Qualitative Research Genres in the IS Literature: Emerging Issues and Potential Implications
Suprateek Sarker

✦ Best Paper Nomination

Social Issues in Organizations

Co-chairs: Donald Amoroso and Michael Knight

OS 25 Friday

8:00 – 9:30 Queen's 6

Groups

The Impact of Negative Relations on Performance and Satisfaction in Group Work

Ling Xia, N. Sadat Shami, Y. Connie Yuan, and Geri Gay

Information Security and Task Interdependence: An Exploratory Investigation

Kenneth J. Knapp and Thomas E. Marshall

Exploring Trust among Globally Distributed Work Teams

Susan Newell, Gary David and Donald Chand

OS 26 Friday

10:00 – 11:30 Queen's 6

Ethics

The Influence of Media Factors on Ethical Behavior

Wm. Benjamin Martz Jr. and Morgan Shepherd

Identifying Employee Internet Abuse

Jeffrey J. Johnson and Kenneth W. Chalmers

E-Quality and E-Service Equality

Prina Shachaf and Shannon M. Oltmann

OS 27 Friday

1:00 – 2:30 Queen's 6

Change Management

Organizational Storytelling and Technology Innovation

Maureen Macleod and Elizabeth Davidson

Re-Examining IT Enabled Change with a New Model of the Information Field: The Tiger Creek Case

Xiaozhong Liu, Robert Benjamin, and Ping Zhang

✦ Managing Resistance to Organizational Change: How GSS Can Reveal Role Related Resistance Behaviors

Sajda Qureshi and Alanah Davis

Theoretical Approaches to IS Research

Co-chairs: Scott L. Schneberger and Michael Wade

OS 28 Friday

3:00 – 4:30 King's 2

✦ The Ability – Motivation – Opportunity Framework for Behavior Research in IS

Jerald Hughes

The Efficacy of "Little t" Theories

Scott L. Schneberger, Hugh J. Watson, and Carol E. Pollard

Theorizing in Information Systems Research: Some Preliminary Findings

Brent Furneaux, Michael Wade, and Hossam Ali-Hassan

Fit Perspectives and Theory Building in Information Systems

Victoria Mitchell, Hasan Mohammad, Tracey Stock, and Xueqi Wei

Topics in Organizational Systems & Technology

Co-chairs: Kelly Rainer and Mark Frolick

OS 29 Thursday

8:00 – 9:30 Kona 2

A Program of Study of the Use of Stories in DSS

David B. Paradise

Building Environmental Information Systems: Myths and Interdisciplinary Lessons

Karen S. Baker and Karen I. Stocks

Wikipedia as Rational Discourse: An Illustration of the Emancipatory Potential of Information Systems

Sean Hansen, Nicholas Berente, and Kalle Lyytinen

OS 30 Thursday

10:00 – 11:30 Kona 2

Collaborative Culture and Perceived Issues with University-to-Industry Knowledge Transfer

Karen J. Sorensen

Nested Difference Tests for Examining Effects of Dependability on Enterprise Applications Success in E-Business

Jung-Yu Lai and Chun-Chieh Yang

✦ **Best Paper Nomination**

40th Hawaii International Conference on System Sciences

SOFTWARE TECHNOLOGY

Co-chairs: Gul Agha and Rick Kazman

Adaptive and Evolvable Software Systems: Techniques, Tools, and Application

Co-chairs: Yvonne Coady, Raymond Klefstad, and Jeff Gray

ST 1 Saturday
1:00 – 2:30 Kona 3

Driving Component Composition from Early Stages Using Aspect-Oriented Techniques

Pedro J. Clemente, Juan Hernández, and Fernando Sánchez

Building a Coordination Framework to Support Behavior-based Adaptive Checkpointing for Open Distributed Embedded Systems
Nianen Chen and Shangping Ren

A Constrained Executable Model of Dynamic System Reconfiguration
D'Arcy Walsh, Francis Bordeleau, and Bran Selic

ST 2 Saturday
3:00 – 4:30 Kona 3

Multi-level Architectural Evolution Management
Tien Nguyen

RiverInk – An Extensible Framework for Multimodal Interoperable Ink
Jonathan Neddenriep and William G. Griswold

Composable Language Extensions for Computational Geometry: A Case Study
Eric Van Wyk and Eric Johnson

Adaptive Systems Require Adaptive Support - When Tools Attack!
Jennifer Baldwin and Yvonne Coady

Automated Software Testing and Analysis: Techniques, Practices and Tools

Co-chairs: Zhi Quan (George) Zhou, Bernhard Scholz, and Giovanni Denaro

ST 3 Saturday
8:00 – 9:30 Kona 3

Reconciling Manual and Automated Testing: The Auto Test Experience
Andreas Leitner, Ilinca Ciupa, Bertrand Meyer, and Mark Howard

A Multipurpose Code Coverage Tool for Java
Raghu Lingampally, Atul Gupta, and Pankaj Jalote

A Runtime and Analysis Framework Support for Unit Component Testing in Distributed Systems
Jun Li and Keith Moore

✦ Best Paper Nomination

ST 4 Saturday
10:00 – 11:30 Kona 3

An Innovative Approach to Tackling the Boundary Effect in Adaptive Random Testing
T.Y. Chen, De Hao Huang, T.H. Tse, and Zongyuan Yuang

Stochastic Formal Methods: An Application to Accuracy of Numeric Software
Marc Daumas and David Lester

Digital Forensics

Co-chairs: Rayford Vaughn and David Dampier

ST 5 Thursday
8:00 – 9:30 King's 3

Online Education in Computer and Digital Forensics: A Case Study
Gary C. Kessler

Master's Degree in Digital Forensics
Philip Craiger, Lucille Ponte, Carrie Whitcomb, Mark Pollitt, and Ronald Eaglin

Graduate Digital Forensics Education at the Air Force Institute of Technology
G. L. Peterson, R. A. Raines and R. O. Baldwin

ST 6 Thursday
10:00 – 11:30 King's 3

"Out of the Box" Forensics Labs
Ronald C. Dodge Jr. and Dave Cook

Promoting Digital Forensics Awareness through the University of Alaska Fairbanks ASSERT Center
Kara Nance, Brian Hay, and Christopher Hecker

The Development of a University-Based Forensics Training Center as a Regional Outreach and Service Activity
Rayford B. Vaughn and David A. Dampier

ST 7 Thursday
2:00 – 3:30 King's 3

Digital Forensics: Validation and Verification in a Dynamic Work Environment
Jason Beckett and Jill Slay

Is the Open Way a Better Way? Digital Forensics Using Open Source Tools
Dan Manson, Anna Carlin, Alain Gyger, Matt Kaufman, Steve Ramos, and Jeremy Treichelt

Wireless Forensic Analysis Tools for Use in the Electronic Evidence Collection Process
Benjamin Turnbull and Jill Slay

ST 8 Thursday
4:00 – 5:30 King's 3

Support for Computer Forensics Examination Planning with Domain Modeling: A Report of One Experiment Trial
Alfred C. Bogen, David A. Dampier and Jeffrey C. Carver

iPod Forensics: Forensically Sound Investigation of An Apple iPod
Jill Slay and Andrew Przibilla

✦ Hardware-Assisted Scanning for Signature Patterns in Image File Fragments
Yoginder S. Dandass

Information Security Education and Foundational Research

Co-chairs: Melissa Dark and Linda Morales

ST 9 Friday
8:00 – 9:30 King's 3

Authentication in Wireless Networks
G V S Raju and Rehan Akbani

Computing Cross Associations for Attack Graphs and Other Applications
M. H. Heydari, L. Morales, C. O. Shields Jr. and I. H. Sudborough

Phishing the Phisher: Using Web Bugs and Honeypots to Investigate the Source of Phishing Attacks
Craig M. McRae and Rayford B. Vaughn

Breaking Down Stereotypes: A Call for an Ontological Model
Russell D. Rosco, Marcus K. Rogers, and Samuel Liles

ST 10 Friday
10:00 – 11:30 King's 3

The Impact of the NSA Cyber Defense Exercise on the Curriculum at the Air Force Institute of Technology
Barry E. Mullins, Timothy H. Lacey, Robert F. Mills, Joseph M. Trechter and Samuel D. Bass

Building Tomorrow's Information Assurance Workforce through Experiential Learning
David Dellacca and Connie Justice

Secure Software Engineering: A New Paradigm
Wm. Art Conklin and Glenn Dietrich

Incorporating Lean Development Practices into Agile Software Development

Co-chairs: Jeff Sutherland and Jean Tabaka

ST 11 Friday
8:00 – 9:30 Kona 2

Distributed Scrum: Agile Project Management with Outsourced Development Teams
Jeff Sutherland, Anton Viktorov, Jack Blount, and Nikolai Puntikov

Experiences of Using Pair Programming in an Agile Project
Jari Vanhanen and Harri Korpi

The Impact of Scaling on Planning Activities in an Agile Software Development Context
Hubert Smits

ST 12 Friday
10:00 – 11:30 Kona 2

Implementing a Professional Services Organization Using Type C Scrum
Brent Barton and Evan Campbell

Using Agile Practices to Spark Innovation in a Small to Medium Sized Business
Ken H. Judy and Ilio Krumins-Beens

✦ **Presentation only:** Effects of Agile Methods on Electronic Commerce: Do They Improve Website Quality?
David F. Rico

Next-Generation Software Engineering

Co-chairs: Alan R. Hevner, Richard C. Linger, and Gwendolyn H. Walton

ST 13 Thursday
2:00 – 3:30 Kona 2

Next-Generation Software Engineering: Function Extraction for Computation of Software Behavior
Richard C. Linger, Mark G. Pleszkoch, Luanne Burns, Alan R. Hevner and Gwendolyn H. Walton

A Semantic Recognizer Infrastructure for Computing Loop Behavior
Ali Mili, Tim Daly, Mark Pleszkoch, and Stacy Prowell

✦ Automated Testing of Generic Computational Science Libraries
Kirk Sayre and Jesse Poore

ST 14 Thursday
4:00 – 5:30 Kona 2

Implementation-Oriented Secure Architectures
Daniel Conte deLeon, Jim Alves-Foss, and Paul W. Oman

Capabilities Engineering: Constructing Change-Tolerant Systems
Ramya Ravichandar, James D. Arthur, and Shawn A. Bohner

Measuring Reliability of Applications Composed of Web Services
Hangjung Zo, Derek L. Nazareth, and Hemant K. Jain

Secure Software Architecture, Design, Implementation and Assurance

Co-chairs: Robert C. Seacord, Sven Dietrich, and Daniel Plakosh

ST 15 Friday
1:00 – 2:30 King's 3

Value Driven Security Threat Modeling Based on Attacking Path Analysis
Yue Chen, Barry Boehm, and Luke Sheppard

✦ Web Application Scanners: Definitions and Functions
Elizabeth Fong and Vadim Okun

Fine-Grained and Scalable Approaches for Message Integrity
Joon Park and Ganesh Devarajan

ST 16 Friday
3:00 – 4:30 King's 3

Towards an Engineering Discipline of Computational Security
Ali Mili, Alex Vinokurov, Lamia Labeled Jilani, Frederick Sheldon, and Rahma Ben Ayed

Open Forum: "Software Security: Tooling vs. Training"

Thomas Plum; Plum Hall, Inc.

Software Engineering Decision Support
Co-chairs: Guenther Ruhe and Shari Lawrence Pfeeger

ST 17 Saturday
8:00 – 9:30 Queen's 5

A Process-Centric Approach for Coordinating Product Configuration Decisions
Marcilio Mendonca, Donald Cowan, and Toacy Oliveira

Interactive Decision Support for Multiobjective COTS Selection
Thomas Neubauer and Christian Stummer

Formalizing Informal Stakeholder Decisions – A Hybrid Method Approach
Hasan Kitapci and Barry W. Boehm

Open Forum: "Decision Support in IT - What Can Software Engineers Learn From Other Disciplines?"

Tools for Model Driven Development
Co-chairs: Liming Zhu, Ian Gorton and Ihor Kuz

ST 18 Friday
1:00 – 2:30 Queen's 5

Automated Software Product Line Engineering and Product Derivation
Hassan Gomaa and Michael Shin

Towards Model Transformation Generation By-Example
Manuel Wimmer, Michael Strommer, Horst Kargl, and Gerhard Kramler

✦ Model Driven Design and Implementation of Statistical Surveys
Chul Hwee Kim, John Hosking, and John Grundy

Model Driven Development with NORMA
Matthew Curland and Terry Halpin

ST 19 Friday
3:00 – 4:30 Queen's 5

A Model-Based Approach for Platform-Independent Binary Components with Precise Timing and Fine-Grained Concurrency
Tim Schattkowsky, Gregor Engels, and Alexander Förster

Using Software Component Models and Services in Embedded Real-Time Systems
Frank Lüders, Shoaib Ahmad, Faisal Khizer, and Gurjodh Singh-Dhillon

Performance Analysis of a Middleware Demultiplexing Pattern
U. Praphamontripong, S. Gokhale, Aniruddha Gokhale and Jeff Gray

Model-Driven HMI Development: Can Meta-CASE Tools do the Job?
Carsten Bock

✦ **Best Paper Nomination**

40th Hawaii International Conference on System Sciences

Visual Interactions in Software Technology

Co-chairs: Kang Zhang and Guido Wirt

ST 20 Thursday
2:00 – 3:30 Queen's 5

A Visualization Framework for Task-Oriented Modeling using UML
Christian F.J. Lange, Martijn A.M. Wijns, and Michel R.V. Chaudron

CMP: A UML Context Modeling Profile for Mobile Distributed Systems
Christof Simons

POSAML: A Visual Modeling Framework for Middleware Provisioning
Dimple Kaul, Arundhati Kogekar, Aniruddha Gokhale, Jeff Gray, and Swapna Gokhale

ST 21 Thursday
4:00 – 5:30 Queen's 5

Design Pattern Evolution and Verification Using Graph Transformation
Chunying Zhao, Jun Kong, and Kang Zhang

Ambiguities in Sketch-Based Interfaces
Danilo Avola, Maria Chiara Caschera, Fernando Ferri, and Patrizia Grifoni

Wireless Sensor Networks and Applications

Co-chairs: Edoardo Biagioni and Stephan Olariu

ST 22 Saturday
1:00 – 2:30 Kona 4

An Adaptable Energy-Efficient Medium Access Control Protocol for Wireless Sensor Networks
Justin T. Kautz, Barry E. Mullins, Rusty O. Baldwin, and Scott R. Graham

Dynamic Address Allocation for Management and Control in Wireless Sensor Networks
Zheng Yao and Falko Dressler

Assembling Sensor Networks
Jeffrey V. Nickerson

ST 23 Saturday
3:00 – 4:30 Kona 4

Incentive-Compatible, Energy-Optimal, and Efficient Ad Hoc Networking in a Selfish Milieu
Stephan Eidenbenz, Luzi Anderegg, and Roger Wattenhofer

A Comparison of Optimized Link State Routing with Traditional Routing Protocols in Marine Wireless Ad-hoc and Sensor Networks
Pore Ghee Lye and John C. McEachen

Connectivity in Sensor Networks
Patrick Vincent, Murali Tummala, and John McEachen