The Forty-Ninth Annual Hawai‘i International Conference on System Sciences

January 5-8, 2016
Grand Hyatt Kauai
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Keynote speakers: 02
Symposia, workshops and tutorial leaders: 74
Authors in 596 accepted papers: 1,644
Reviewers: 1,551
Minitrack chairs: 331
Track chairs: 18
Conference chairs: 02
HICSS Staff, other Staff and student volunteers: 08
Conference attendees from over 40 countries, and counting: 900
Conference Co-chairs
Tung Bui | Ralph H. Sprague, Jr.

Conference Program Coordinator
Thayanan Phuaphanthong

Conference Technical Coordinator
Kaveh Abhari

Department of IT Management, Shidler College of Business
University of Hawai‘i at Manoa

Scientific Advisor
John Seely Brown

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**Collaboration Systems and Technology**
Robert Briggs, San Diego State University
Jay Nunamaker, University of Arizona

**Decision Analytics, Mobile Services and Service Science**
Christer Carlsson, Abo Akademi University, Finland
Haluk Demirkan, University of Washington-Tacoma

**Digital and Social Media**
Kevin Crowston, Syracuse University
Karine Nahon, University of Washington

**Electronic-Government**
Hans Jochen Scholl, University of Washington

**Electric Energy Systems**
Thomas Overbye, University of Illinois-Champaign
Robert Thomas, Cornell University

**Information Technology in Healthcare**
William G. Chismar, University of Hawai‘i at Manoa
Thomas Horan, Claremont Graduate University

**Internet and the Digital Economy**
Alan Dennis, Indiana University
Dave King, JDA Software Group, Inc.

**Knowledge Systems**
Murray Jennex, San Diego State University
Dave Croasdell, University of Nevada, Reno

**Organizational Systems and Technology**
Hugh J. Watson, University of Georgia

**Software Technology**
Gul Agha, University of Illinois at Urbana-Champaign
Rick Kazman, University of Hawaiʻi at Manoa
CELEBRATING 50 YEARS OF HICSS — CALL FOR PARTICIPATION

We invite submission of:

- Symposium, Workshop, and Tutorial (SWT) Proposals;
- Minitrack Proposals;
- Papers;
- Ideas for Keynote Speakers

Please check www.hicss.org or www.hicss.hawaii.edu for more information.

Important Dates

For Symposium, Workshop, and Tutorial (SWT) Proposals
February 28, 2016: Deadline for SWT proposal submission (11:59 pm HST).

For Minitrack Proposals
February 6, 2016: Submission deadline for minitrack proposal (11:59 pm HST).
February 13, 2016: Notification of Acceptance/Rejection.

For Paper Submission
June 15, 2016: Paper submission deadline (11:59 pm HST).
August 16, 2016: Notification of Acceptance/Rejection.
September 15, 2016: Deadline for authors to submit final manuscript for publication.
October 1, 2016: Deadline for at least one author of each paper to register for HICSS-50.
October 15, 2016: Papers without at least one registered author will be removed from HICSS-50 program and proceedings.
# HICSS-49 | Overall Schedule

## January 5 | Tuesday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00 – 05:00</td>
<td>Registration</td>
</tr>
<tr>
<td>09:00 – 10:15</td>
<td>Symposia, Workshops, and Tutorials</td>
</tr>
<tr>
<td>10:15 – 10:45</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45 – 12:00</td>
<td>Symposia, Workshops, and Tutorials</td>
</tr>
<tr>
<td>12:00 – 01:00</td>
<td>Lunch (on your own, but pre-order is available during the coffee break)</td>
</tr>
<tr>
<td>01:00 – 02:15</td>
<td>Symposia, Workshops, and Tutorials</td>
</tr>
<tr>
<td>02:15 – 02:45</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>02:45 – 04:00</td>
<td>Symposia, Workshops, and Tutorials</td>
</tr>
<tr>
<td>04:15 – 05:00</td>
<td>Meeting - Track Chairs and Minitrack Chairs (See pp. 12-13 for location)</td>
</tr>
<tr>
<td>05:00 – 05:30</td>
<td>Meeting - Minitrack Chairs and Authors (See pp. 12-13 for location)</td>
</tr>
<tr>
<td>06:00 – 07:00</td>
<td>Welcome Reception at Shipwreck Lagoon, Hosted bar, courtesy of the Grand Hyatt Kauai</td>
</tr>
</tbody>
</table>

## January 6 and 7 | Wednesday and Thursday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:30 – 05:00</td>
<td>Registration</td>
</tr>
<tr>
<td>08:00 – 09:30</td>
<td>Paper Sessions</td>
</tr>
<tr>
<td>09:30 – 10:00</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:00 – 11:30</td>
<td>Paper Sessions</td>
</tr>
<tr>
<td>11:30 – 12:30</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:45 – 01:50</td>
<td>Distinguished Lecture / Keynote Address</td>
</tr>
<tr>
<td>02:00 – 03:30</td>
<td>Paper Sessions</td>
</tr>
<tr>
<td>03:30 – 04:00</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>04:00 – 05:30</td>
<td>Paper Sessions</td>
</tr>
<tr>
<td>06:00 – 07:00</td>
<td>Pau Hana Happy Hour at Grand Garden</td>
</tr>
</tbody>
</table>

## January 8 | Friday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:30 – 12:00</td>
<td>Registration</td>
</tr>
<tr>
<td>08:00 – 09:30</td>
<td>Paper Sessions</td>
</tr>
<tr>
<td>09:30 – 10:00</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:00 – 11:30</td>
<td>Paper Sessions</td>
</tr>
<tr>
<td>11:30 – 12:30</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:35 – 12:55</td>
<td>Best Paper Award Ceremony</td>
</tr>
<tr>
<td>01:00 – 02:30</td>
<td>Paper Sessions</td>
</tr>
<tr>
<td>02:30 – 03:00</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>03:00 – 04:30</td>
<td>Paper Sessions</td>
</tr>
<tr>
<td>06:00 – 09:00</td>
<td>Luau at Ilima Garden</td>
</tr>
</tbody>
</table>
Event Matrices

Plenary Talks

Symposia, Workshops, and Tutorials
- Big Data
- Electronic Government
- Innovation and Sustainability
- IT and Society
- Scientific Inquiry and Research Methods
- Security
- Software Development Approach
- Software Technologies

Research Paper Presentations by Tracks
- Collaboration Systems and Technologies Track
- Decision Analytics, Mobile Services, and Service Science Track
- Digital and Social Media Track
- Electric Government Track
- Electronic Energy Systems Track
- Information Technology in Healthcare Track
- Internet and the Digital Economy Track
- Knowledge Innovation and Entrepreneurial Systems Track
- Organizational Systems and Technology Track
- Software Technology Track

Index of Authors

Floor Plan
Event Matrices
12 Tuesday January 5, 2016
14 Wednesday January 6, 2016
16 Thursday January 7, 2016
18 Friday January 8, 2016

Plenary Talks
20 Distinguished Lecture
21 Keynote Address

Symposia, Workshops, and Tutorials

Big Data
23 Big Data and Analytics
23 Big Data Engineering: Architecting for Scalability
23 Business Analytics and Big Data - Available Resources; Preparing the Next Generation of Knowledge Workers
23 Fundamentals and Applications of Visual Analytics
24 Introduction to Big Data and Its Technology
24 Text Analytics at Scale on Parallel Platforms
24 Text Mining Challenges and Solutions in Big Data

Electronic Government
24 Realizing the Promise of Social Media (in Public Sector)
25 Smart Cities Smart Government Research-Practice Consortium

Innovation and Sustainability
25 Design for Innovation and Creativity
26 Theory to Application: Comprehensive Tools for Service Innovation from ISSIP

IT and Society
26 Collective Intelligence and Crowdsourcing
26 CompleXity: Technology for Complex Urban Systems
26 Culture, Gender & Accessibility: Transforming Learning & Leadership Diversity in IT
27 Learning Health System: Designing and Generalizing the Challenge of the Learning Health System, Expanding the Community, and Maintaining Momentum
Technologies for Healthy Aging

Scientific Inquiry and Research Methods

Analyzing Social Networks with R: Description, Visualization, and Modeling
Cognitive Foreshadowing: Next Steps in Applying Neuroscience and Cognitive Science (NCS) to Information Systems Research
Introduction to Social Network Analysis
Social Media Research
Synthesizing Effect Research Groups Comprising Behavioral Scientists, Software Developers, and Computer Scientists

Security

Credibility Assessment and Screening Technologies (CAST)
Cybersecurity in Action
Cybersecurity Competitions
Knowledge Unit Workshop for Cyber Security Education

Software Development Approach

Agile and Lean Management
Software Reuse and Reusability Based on Business Processes and Requirements
Towards Strategic Usability

Software Technologies

Cognitive Computing and Cognitive Assistants for Research and Teaching

Research Paper Presentations by Tracks

Collaboration Systems and Technologies

Advances in Teaching and Learning Technologies
Communication and Information Systems Technology for Crisis and Disaster Management
Creativity in Teams and Organizations
Cross-Organizational and Cross-Border IS/IT Collaboration
Data Science for Collaboration
Decision, Negotiation, Leadership, Social Communities and Technology
Design and Innovation of Social Networking Services
Emerging Issues in Distributed Group Decision-Making: Opportunities and Challenges
Global Virtual Teams
Human-and Task-Centered Assistance Systems
Human-Computer Interaction: Information Design Utilizing Behavioral, Neurophysiological, and Design Science Methods
IT Enabled Collaboration in Developing Countries
Mobility-enhanced Social Collaborations for Value Creation
Processes and Technologies for Small and Large Team Collaboration
Serious Games, Gamification, and Innovation
Social and Psychological Perspectives in Collaboration Research
Social Media and e-Business Transformation
Technology Mediated Collaborations in e-Health

**Decision Analytics, Mobile Services, and Service Science Track**

Addressing Grand Challenges with Systems Sciences
Analytics, Information Systems and Decision Technologies for Sustainability
Big Data Analytics: Concepts, Methods, Techniques
Business Value of the Internet of Things
Data, Text and Web Mining for Business Analytics
Decision Support for Smart City and E-Society Services
Digital and ICT-Enabled Services
Digital Service Innovations based on “Open” Phenomena and Practices
Gamification: Motivations, Effects, and Analytics
Humanitarian Operations Research - Decision Analytics for Crisis and Disaster Management
Intelligent Decision Support for Logistics and Supply Chain Management
Interactive Visual Decision Analytics
Mobile Value Services
Multi-Criteria Decision Analysis and Support Systems
Service Analytics
Service Science
Smart Service Systems: Analytic, Cognition, and Innovation
Soft Computing
Streaming Data Analytics and Applications
Systemic Financial Risk Analytics
Wearables and Quantified Self

**Digital and Social Media Track**

Co-Creating Innovations
Collective Intelligence and Crowds: Structure, Roles, and Identity
Critical and Ethical Studies of Digital and Social Media
Data Analytics and Data Mining for Social Media
Materiality of Information, Documents and Work
Network Analysis of Digital and Social Media
Electronic Government Track

- Big and Linked Data (BOLD) in Government
- Cybersecurity
- Emerging Topics in Electronic Government
- Information and Communication Technologies for Development: Contributing to Human Development and Social Justice
- Inside the Insider Threat
- Open and Participatory Government
- Policies and Strategies for Digital Government
- Resilience Against Crises and Disasters
- Services and Information
- Smart Cities and Smart City Government
- Social Media in Government
- Transformational Government: Governance, Organization, and Management

Electric Energy Systems Track

- Monitoring, Control and Protection
- Resilient Networks
- Economics, Markets, and Policy
- Integrating Distributed or Renewable Generation

Information Technology in Healthcare Track

- Global Health IT Strategies
- Health Behavior Change Support Systems
- IT Adoption, Diffusion and Evaluation in Healthcare
- IT Architectures and Implementations in Healthcare Environments
- Learning Health Systems
- Mobile Applications and Emerging Technologies for Health Management and Wellness
- Technologies for Clinical Decision-Making, Interventions, and Wellness
- Technologies for Healthy Aging
- User Experience Design for Health and Wellness
Internet and the Digital Economy Track

Crowdfunding and the Wisdom of the Crowds
Electronic Marketing
Global, International, and Cross-Cultural Issues in IS
Innovative Behavioral IS Security and Privacy Research
Mining, Analyzing, and Visualizing Web Content and Usage
Online Games and Game-Like Systems
Social Shopping: The Good and not so Good
The Diffusions, Impacts, Adoption and Usage of ICTs upon Society
The Internet of Everything: Connecting People, Things, and Data
Transformation Towards Cloud Computing

Knowledge Innovation and Entrepreneurial Systems Track

Confidentiality, Integrity, and Availability of Knowledge, Innovation, and Entrepreneurial Systems
Designing and Deploying Advanced Knowledge Systems
Innovation Uncertainties and Socio-Political Legitimization
Knowledge Economics
Knowledge Flows, Transfer, Sharing and Exchange
Knowledge Management Value, Success and Performance Measurements
Knowledge Society / Knowledge Sharing and Utilization in International/Global Setting
Managing Knowledge for Innovation and Agility
Organizational Learning
Reports from the Field
The Organizational Use of IT-Mediated Crowds
Tools and Software for Knowledge Management

Organizational Systems and Technology Track

Advances in Design Research for Information Systems
Analytics and Decision Support for Ecosystems
Business and Enterprise Architecture: Processes, Approaches and Challenges
Digital Innovation
Emerging Technologies and Innovations for Development
Enterprise System Integration: Issues and Answers
Human Capital and Technology in a Global Marketplace
Impacts of Information Technologies on Consumer Activities and on Business Operations
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>63</td>
<td>Information Security and Privacy</td>
</tr>
<tr>
<td>63</td>
<td>Information Systems Procurement and Benefits Realization</td>
</tr>
<tr>
<td>63</td>
<td>IT Governance and its Mechanisms</td>
</tr>
<tr>
<td>63</td>
<td>IT and Project Management</td>
</tr>
<tr>
<td>64</td>
<td>Open Source Application Software</td>
</tr>
<tr>
<td>64</td>
<td>Organizational Issues of Business Intelligence, Business Analytics and Big Data</td>
</tr>
<tr>
<td>64</td>
<td>Practice-based IS Research</td>
</tr>
<tr>
<td>64</td>
<td>Social-Technical Issues in Organizational Information Technologies</td>
</tr>
<tr>
<td>65</td>
<td>Society, Information, Technology, and Economics</td>
</tr>
<tr>
<td>65</td>
<td>Theory and Information Systems</td>
</tr>
<tr>
<td>65</td>
<td>Topics in Organizational Systems and Technology</td>
</tr>
</tbody>
</table>

**Software Technology Track**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>66</td>
<td>Agile and Lean: Organizations, Products and Development</td>
</tr>
<tr>
<td>66</td>
<td>Big Data Engineering</td>
</tr>
<tr>
<td>67</td>
<td>Cybercrimes, Cyber-Physical Innovations, and Emerging Investigation Challenges</td>
</tr>
<tr>
<td>67</td>
<td>Cybersecurity and Software Assurance</td>
</tr>
<tr>
<td>67</td>
<td>CyberWarfare: Offensive and Defensive Software Technologies</td>
</tr>
<tr>
<td>67</td>
<td>Digital Forensics - Education, Research, and Practice</td>
</tr>
<tr>
<td>68</td>
<td>IS Risk and Decision-Making</td>
</tr>
<tr>
<td>68</td>
<td>Mobile App Development</td>
</tr>
<tr>
<td>68</td>
<td>Modern Trends in Parallel Computing</td>
</tr>
<tr>
<td>68</td>
<td>Securing the Cloud and the Internet of Things</td>
</tr>
<tr>
<td>69</td>
<td>Software Product Lines: Engineering, Services, and Management</td>
</tr>
<tr>
<td>69</td>
<td>Wireless Network</td>
</tr>
</tbody>
</table>

**Index of Authors**

**Floor Plan**
### Room Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Room</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>Garden Isle 4</td>
<td>Introduction to Big Data and Its Technology (CAST)</td>
</tr>
<tr>
<td>10:15</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>10:45</td>
<td>Grand Ballroom 1</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Grand Ballroom 3</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Grand Ballroom 4</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Kauai 1</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Kauai 2</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Grand Ballroom 5</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Kauai 3</td>
<td>Coffee Break</td>
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<tr>
<td>10:45</td>
<td>Kauai 4</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Grand Ballroom 6</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Kauai 5</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Grand Ballroom 7</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Kauai 6</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Garden Isle 2</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Garden Isle 3</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Garden Isle 4</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Garden Isle 5</td>
<td>Coffee Break</td>
</tr>
</tbody>
</table>

### Session Topics

- **Introduction to Big Data and Its Technology (CAST)**
- **Coffee Break**
- **Coffee Break**
- **Coffee Break**
- **Coffee Break**
- **Coffee Break**
- **Coffee Break**
- **Coffee Break**

### Session Details

- **9:00 - 10:15**: Credibility Assessment and Screening Technologies (CAST)
  - **Room**: Garden Isle 4
  - **Session**: Introduction to Big Data and Its Technology (CAST)

- **10:45 - 12:00**: Credibility Assessment and Screening Technologies (CAST)
  - **Room**: Garden Isle 4
  - **Session**: Introduction to Big Data and Its Technology (CAST)

- **12:00 - 1:00**: Lunch

- **1:00 - 2:15**: Credibility Assessment and Screening Technologies (CAST)
  - **Room**: Garden Isle 4
  - **Session**: Introduction to Big Data and Its Technology (CAST)

- **2:15 - 2:45**: Credibility Assessment and Screening Technologies (CAST)
  - **Room**: Garden Isle 4
  - **Session**: Introduction to Big Data and Its Technology (CAST)

- **4:15 - 5:00**: Collaboration Systems and Technologies
  - **Room**: Kauai 5
  - **Session**: Collaboration Systems and Technologies

- **9:00 - 10:15**: “600 - 5:30 Meeting - Mindcraft Chairs and Authors”
  - **Room**: Garden Isle 2
  - **Session**: Collaboration Systems and Technologies

- **10:45 - 12:00**: “600 - 5:30 Meeting - Mindcraft Chairs and Authors”
  - **Room**: Garden Isle 3
  - **Session**: Collaboration Systems and Technologies

- **12:00 - 1:00**: Lunch

- **1:00 - 2:15**: “600 - 5:30 Meeting - Mindcraft Chairs and Authors”
  - **Room**: Garden Isle 3
  - **Session**: Collaboration Systems and Technologies

- **2:15 - 2:45**: “600 - 5:30 Meeting - Mindcraft Chairs and Authors”
  - **Room**: Garden Isle 3
  - **Session**: Collaboration Systems and Technologies

- **4:15 - 5:00**: Collaboration Systems and Technologies
  - **Room**: Garden Isle 3
  - **Session**: Collaboration Systems and Technologies
<table>
<thead>
<tr>
<th>Time</th>
<th>Room</th>
<th>Lecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 - 9:00</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>9:00 - 10:30</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>10:30 - 11:30</td>
<td>Credibility Assessment and Screening Technologies (CAST)</td>
<td></td>
</tr>
<tr>
<td>11:30 - 12:30</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>12:45 - 1:30</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>1:30 - 2:30</td>
<td>Distinguished Lecture</td>
<td></td>
</tr>
<tr>
<td>2:30 - 4:00</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>4:00 - 5:30</td>
<td>Credibility Assessment and Screening Technologies (CAST)</td>
<td></td>
</tr>
<tr>
<td>5:30 - 6:30</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>6:00 - 7:00</td>
<td>Pau Hana Happy Hour at Grand Garden</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Room</td>
</tr>
<tr>
<td>----------</td>
<td>---------------------------------------------------------------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>8:00 - 8:30</td>
<td>Room 1: Multi-Criteria Decision Analysis and Support Systems</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>8:30 - 9:00</td>
<td>Room 2: Integrating Distributed or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>9:00 - 9:30</td>
<td>Room 3: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>9:30 - 10:00</td>
<td>Room 4: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>Room 5: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>10:30 - 11:00</td>
<td>Room 6: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>11:00 - 11:30</td>
<td>Room 7: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>11:30 - 12:00</td>
<td>Room 8: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>12:00 - 12:30</td>
<td>Room 9: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>12:30 - 13:00</td>
<td>Room 10: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>13:00 - 13:30</td>
<td>Room 11: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>13:30 - 14:00</td>
<td>Room 12: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>14:00 - 14:30</td>
<td>Room 13: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>14:30 - 15:00</td>
<td>Room 14: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>15:00 - 15:30</td>
<td>Room 15: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
</tr>
<tr>
<td>15:30 - 16:00</td>
<td>Room 16: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
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<td>16:00 - 16:30</td>
<td>Room 17: Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)</td>
<td>Grand Ballroom 1</td>
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**Room 1: Multi-Criteria Decision Analysis and Support Systems**
- **8:00 - 8:30**: Session 1 - Multi-Criteria Decision Analysis and Support Systems
- **8:30 - 9:00**: Session 2 - Integrating Distributed or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **9:00 - 9:30**: Session 3 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **9:30 - 10:00**: Session 4 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **10:00 - 10:30**: Session 5 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **10:30 - 11:00**: Session 6 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **11:00 - 11:30**: Session 7 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **11:30 - 12:00**: Session 8 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **12:00 - 12:30**: Session 9 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **12:30 - 13:00**: Session 10 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **13:00 - 13:30**: Session 11 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **13:30 - 14:00**: Session 12 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **14:00 - 14:30**: Session 13 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **14:30 - 15:00**: Session 14 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **15:00 - 15:30**: Session 15 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **15:30 - 16:00**: Session 16 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
- **16:00 - 16:30**: Session 17 - Collaborative or Renewable Energy (Renewable Resources, Microgrids, and Storage)
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<td>8:00 - 9:00</td>
<td>Grand Ballroom 1</td>
<td>Leadership, Social Dynamics and Innovation of Social Networking Services</td>
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<td>9:00 - 10:00</td>
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<td>Grand Ballroom 7</td>
<td>Leadership, Social Dynamics and Innovation of Social Networking Services</td>
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**Notes:**
- Coffee Breaks are scheduled at 9:30 and 10:00.
- Lunch is provided from 11:30 to 12:30.
- The Best Paper Award Ceremony is held at 12:30 and 12:55.
The advent of smart mobile devices has spurred an avalanche of wearable technologies tracking your movements, heart rate, respiration, sleep, voice stress, location, gestures and even facial expressions, with clinical applications tracking diet, blood chemistry, gait and tremors and many other features. Our physical selves have never been better quantified and tracked, with huge datasets revealing many new insights into human behaviour and motivation. With the expanding Internet of Things we can use our mobile devices to control the physical world. And some people even make calls!

The human brain is our most complex and unique organ, defining us in almost every way. Until now, a major missing piece is an ability to monitor moods, emotions and mental performance and to use mental commands directly to control our world. A few companies have started to address pieces of this problem.

At Emotiv we have developed a hardware and software ecosystem to tackle the whole problem of forming a relationship with your brain and learning to control your devices as if by magic. In addition to immediate benefits of this technology, we invite our community to help us to amass the world’s largest database of brain data collected in the real world. Our long term vision is to revolutionise the study of the human brain in real use and to make available to the research community our big data and machine learning tools to learn both how to optimise human performance and to seek out markers for mental impairments and mood disorders which afflict up to a third of the world’s population. And have a lot of fun along the way!

Dr. Geoffrey Mackellar is a Chief Scientist at Emotiv where he was instrumental to the development of algorithms that deciphered the complex electrical fluctuations that can be observed at the scalp. Dr Mackellar was co-founder and Chief Scientist of Metalaser Technologies Ltd, Visiray Ltd and Dynamic Light Ltd, in Sydney, Australia. At Polartechnics Ltd, he developed a range of innovative medical products in the field of cancer screening and diagnosis: Truscreen™ and Solarscan™.

Dr. Mackellar undertook a triple-major in Physics, Pure Mathematics and Applied Mathematics at University of New England. He received a Doctorate of Philosophy from Macquarie University in the field of Laser Physics. He has several published papers and has produced over 40 products ranging from microelectronic sensors to high-power laser systems.

Dr. Geoffrey Mackellar
Co-founder and CTO, Emotiv Inc
Far too often, technologists over-emphasize the value of a technological or scientific breakthrough in the context of engineering, while under-emphasizing the impact or importance of human factors and social design.

Over the next ten years, we can expect breakthroughs in science, engineering, biology and computer sciences. Many areas of current research may have a dramatic impact on society in the future. These include: autonomous and cognitive systems, virtual and augmented reality, brain research and direct interface design, the Internet of Things, big data, cyber security, robotics, and biotech.

How these areas of research will translate into new products and services will be highly dependent on the social and cultural acceptance of these technologies, and how they will be used in everyday life.

The importance of researching the social science and human factors in these areas cannot be understated. Mr. Louie will walk us through some potentially disruptive technologies and areas of potential research in the “soft” sciences.

Gilman Louie is a cofounder and partner of San Francisco-based Alsop Louie Partners, an early-stage technology venture capital firm founded in 2006. The firm focuses on disruptive and innovative technologies, and has made investments in the areas of cyber security, predictive analytics, education, and entertainment. Some of the companies the firm has led investments in include Twitch, Netwitness, Keyssa, Cleversafe, and Lookingglass Cyber Security.

Gilman was a founder and the first CEO of In-Q-Tel, an independent, nonprofit venture capital firm funded principally by the CIA to invest in high-tech companies to keep the CIA and other intelligence agencies abreast of the rapid pace of technological innovation and delivering technologies that will help solve some of the most pressing challenges. Under Gilman, In-Q-Tel invested in, and worked with, more than 80 companies that have had a significant impact on national security. Some of these companies include Arcsight, Keyhole (now Google Earth), Palantir, Language Weaver, Endeca, and Decru. Gilman is an early computer games pioneer and entrepreneur who founded a computer games company while still in college, took it public and sold it to Hasbro. He serves as a member of the board of directors of the Markle Foundation and various other companies and is chairman of the board of the Federation of American Scientists. Gilman has a long record of public service and has won dozens of awards.
Symposia, Workshops, & Tutorials

- Big Data
- Electronic Government
- Innovation and Sustainability
- IT and Society
- Software Technologies
- Software Development Approach
- Security
- Scientific Inquiry and Research Methods
Big Data

Big Data and Analytics
Steve Kaisler, Frank Armour, Alberto Espinosa, William Money

Grand Ballroom 1
Tuesday, 1:00 - 4:00 pm

Big data is an emerging phenomenon characterized by the three Vs: volume, velocity, and variety. As the plethora of data grows, new methods for processing and understanding this data to provide actionable information for decision-makers are required in all fields. This tutorial will discuss Big Data and Analytics including types of analytics with examples of applications. It will discuss issues and challenges associated with Big Data Analytics. One of our objectives in this tutorial is to examine the current technology and socialize the role and types of analytics applicable to big data to practitioners and students who may soon be the deciders in organization and businesses requiring this type of analysis. A half-day tutorial divided into two sessions. The primary focus will be on analytic techniques rather than technology and implementation.

Big Data Engineering: Architecting for Scalability
Hong-Mei Chen, Ian Gorton

Grand Ballroom 3
Tuesday, 1:00 - 4:00 pm

This tutorial introduces the paradigm shifts as well as the nuts and bolts concepts needed to develop a big data system that aligns with business goals and innovation desires of enterprises. This tutorial will illuminate the challenges that stem from the 5Vs (volume, velocity, variety, veracity and value) of big data and crystallizes the importance of architecture design choices and technology selection in big data system development. It will introduce the state-of-the-art big data technologies and design methods for big data. It will show how downstream processes, such as testing and operations, are affected by the architectural decisions and how one can achieve scalable big data systems in practice.

Business Analytics and Big Data - Available Resources; Preparing the Next Generation of Knowledge Workers
Timothy Paul Cronan, David E. Douglas, Lorraine Gardiner

Grand Ballroom 3
Tuesday, 9:00 am - 12:00 pm

This panel provides faculty participants with a forum to learn about, discuss and identify resources for incorporating/improving the coverage of Business Analytics and Big Data in their coursework. Perspectives from academics as well as an industry perspective will prove to be very valuable for faculty as they develop/refine the incorporation of Big Data and Analytics into their curriculum. The focus is to share available resources for faculty and student use – including systems from IBM, SAP, SAS and Teradata. Specific topics include IBM’s SPSS Modeler, Big Insights (Hadoop/Map Reduce), Cognos Insights, and Watson’s Analytics; SAP HANA and Predictive Analytics; SAS Enterprise Guide, SAS Enterprise Miner & SAS Visual Analytics via Teradata University Network; and data sources for classroom use. This panel/workshop is intended for faculty teaching in the areas of Business Intelligence, Big Data, Statistics, and Business Analytics who want to develop new skills, enhance their curricular, have access to real-world systems/data.

Fundamentals and Applications of Visual Analytics
David Ebert, Kelly Gaither, Brian Fisher

Grand Ballroom 4
Tuesday, 1:00 - 4:00 pm

The volume and complexity of available data is increasing at an unprecedented rate. However, the human ability to analyze and comprehend data remains constant. Visual Analytics is the science of analytical reasoning facilitated by interactive visual interfaces. It combines scientific investigation of information processing in human-computer cognitive systems with the design and implementation of interactive visualization that support this processing, building upon research methods and theories from computer science, management information systems, and the cognitive, perceptual, and social sciences. This tutorial will inform and guide researchers and practitioners in the practice of interdisciplinary visual analytics research and development, and to discuss the far-reaching and practical applications of visual analytics technologies.
This session will begin with a brief introduction to big data and the challenges of working at scale. The primary focus will be to present a knowledge framework and specific suggestions for curriculum development for training data scientists based on emerging efforts across the academic community in recent years. We will map the concepts of Data and Analytic Science to this framework to show how emerging concepts in big data practice can be organized into a coherent training and research program. We will describe the components of the framework and some research challenges in each component with the intent to stimulate our audience to pursue some of these challenges. This session will also survey some of the key concepts in Big Data Technology. Various big data storage and computational architectures will be presented, including, but not limited to: NoSQL databases (e.g. HBase, Cassandra etc), MongoDB, RDF triple stores, SciDB, etc. Big data approaches and mechanisms to capture and model multimedia data as opposed to structured/tabular data will also be reviewed.

Text Analytics at Scale on Parallel Platforms
Greg Bethardy

This tutorial focuses on solutions for performing text analytics at scale on parallel platforms. Examples and code will be presented for approximate word matching, word importance, sentiment analysis, and topic modeling. They begin with methods for quickly preparing text data using lexical analysis and tokenization. Machine learning algorithms and classifiers are then used to generate predictive models and visualizations. The Teradata Aster Analytics Foundation and Aster R will be used during the tutorial but the demonstrated techniques are generally applicable to text analysis. Download links for virtual machines and open-source tools to reproduce example text analytic work flows will be provided.

Realizing the Promise of Social Media (in Public Sector)
Mila Gasco, Hans Jochen Scholl, Lemuria Carter

During a half-day meeting, we will discuss issues such as the challenges social media pose to public administrations, the different social media strategies public administrations can follow, the contribution of social media to open government, the factors that influence social media adoption and use by governments, the role of social media in co-producing public services, or the reactions of citizens and users to different social media communication strategies. We will also evaluate the impact and the transformation brought about by social media, including quantitative and qualitative assessments. Theoretical approaches but also case studies of successes and failures will be presented in order to collect several learned lessons that may be useful for researchers and practitioners with an interest in this field.
The Smart Cities and Smart Government Research-Practice Consortium is a global research community focused on innovations in technology, management and policy that change the fabric of the world’s cities. Through purposeful networking and collaborative research, the Consortium members come together to share ideas, new knowledge, and research. This Consortium meeting features a keynote speech “Global Trends in Smart City Research and Practice” by Theresa Pardo, Director of the Center for Technology in Government, University at Albany, State University of New York.

**Innovation and Sustainability**

**Design for Innovation and Creativity**
Anne Massey, Mitzi Montoya

There is a growing interest in using Design Thinking as an alternative approach to traditional problem-solving. This workshop intends to walk participants through the steps of the design inquiry process. Our goal is to demystify the process of Design Thinking, introduce participants to its tools and techniques, and offer guidelines that will help one decide what kinds of challenges are best suited for Design Thinking.

**NEW TO ROUTLEDGE IN 2015!**

**Journal of Management Information Systems**
Both journals edited by Vladimir Zwass, Fairleigh Dickinson University

The Journal of Management Information Systems is a widely recognized and top-ranked forum for the presentation of research that advances the practice and understanding of organizational information systems. It serves those investigating new modes of information delivery and the changing landscape of information policy making, as well as practitioners and executives managing the information resource. A vital aim of the quarterly is to bridge the gap between theory and practice of management information systems.

To learn more, please visit: www.tandfonline.com/MMIS | Official webpage of the journal: www.jmis-web.org

**International Journal of Electronic Commerce**

The International Journal of Electronic Commerce is the leading scholarly journal devoted exclusively to advancing the understanding and practice of electronic commerce. It provides the latest and most authoritative ideas and knowledge to help advance, develop, and implement B2B, B2C, and intraorganizational e-commerce systems. To learn more, please visit: www.tandfonline.com/MJEC | Official webpage of the journal: www.ijec-web.org

For a complete list of Information Systems journals, visit www.tandfonline.com, and browse by subject.

**The Fourth Symposium on Sustainable Energy and Computing (SSEC) 2016**
Behrooz Shirazi, Kelvin Lynn, Partha Pande

Sustainable computing is an emerging crucial area of national priority. Due to the growing energy demands, there is a pressing need to build efficient and sustainable computing environments that reduce negative environmental impacts. SSEC will cover topics that include, but are not limited to:

- Power-efficient algorithms and protocols
- Power-aware software design
- Power-aware hardware and system design
- Low-power electronics and systems
- Low-power multi-core architectures
- Low-power application-specific ASICs and FPGAs
- Power-awareness in Sensing and monitoring
- Power-awareness characterization, metrics, and modeling
- Reliability, thermal behavior and control
- Power-efficient delivery and cooling
- Life-cycle analysis of computing infrastructures
- Renewable energy models and prediction
- Computing and renewable resources
- Matching energy supply and demand
- Smart grid and microgrids
- Smart transportation and manufacturing
- Smart buildings and urban development
- Energy harvesting, storage, and recycling
- Climate and ecosystem monitoring
- Using IT to reduce carbon emissions
- Carbon metering and user feedback
This half-day workshop begins with a brief review of recent research on culture, gender, and diversity in IT-related fields. It continues with smaller break out groups focused on identifying and examining best practice and research needs for combating implicit bias and fostering diversity. The final segment of the Workshop involves the small group reports and the drafting together of a consensus matrix, listing ideas discussed, needed further research and best practice as well as identifying useful resources and potential leaders.

Join us at:
www.issip.org
The symposium will be a collaborative activity, the goal of which will be the organization and design as well as solicitation of papers for a Special Issue of the International Journal of Entrepreneurship and Small Business (IJESB) devoted to explore new insights from the IS discipline which may contribute to the development of the field of International Entrepreneurship globally, across all cultures and economies. While there will be two short presentations by the symposium leaders outlining the vision and mission of this Special Issue of IJESB, the primary activity of this half-day symposium will be the collaboration of HICSS participants in the organization and design of the special issue.

Learning Health System:
Designing and Generalizing the Challenge of the Learning Health System, Expanding the Community, and Maintaining Momentum
Charles Friedman, Kevin Sullivan

The full day HICSS-49 Learning Health System Symposium will bring together scientists spanning diverse disciplines to identify specific scientific and engineering research challenges common to all learning systems, particularly as they arise and as they are being addressed in the health and healthcare sectors. The Symposium will also present and discuss promising new technical approaches to addressing these problems and evaluating proposed solutions; and continue to grow the emerging interdisciplinary scientific research community in this area.

Analyzing Social Networks with R: Description, Visualization, and Modeling
Jenine Harris, Douglas Luke

The goal of this network analysis workshop is to provide hands-on training in the methods of network description, visualization, and modeling using the R statistical platform. Participants will have the opportunity to work through a number of exercises using real-world network data. At the end of the workshop, participants will be more familiar with network analysis concepts, will have experience conducting network analysis using the R platform, will understand the basic approaches to network analysis, and will be in a better position to integrate network methods into their own work. The workshop is designed for those HICSS attendees who have taken an introductory social network analysis workshop in the past or who have some basic understanding of what social network analysis is. Participants should also have some familiarity with R, which is becoming the platform of choice for social network analysis.
Cognitive Foreshadowing: 
Next Steps in Applying Neuroscience and Cognitive Science (NCS) to Information Systems Research 
Randall Minas, Raymond Panko, Adriane Randolph

Kauai 4  
Tuesday, 9:00 am - 12:00 pm

The goal of this symposium is to advance the use of cognitive neuroscience and cognitive science, including testing of cognitive processes (e.g., attention and memory) in IS by bringing together researchers to share their work and insights. This symposium will present several insightful papers on its subject area and a panel discussion with senior scholars in the Neural IS field. Afterward, participants will attempt to develop a broader integrative depiction of the field.

Introduction to Social Network Analysis
Devan Rosen, George Barnett

Grand Ballroom 6  
Tuesday, 9:00 am - 12:00 pm

Participants will be introduced to formal concepts of social networks and the systems approach, drawing conceptual parallels to participants’ research interests and providing a basis for understanding that can catalyze collaboration. Topics covered in this tutorial include an introduction to network concepts and components, methods for measurement, tips on choosing tools for analysis and visualization, and applications of social network analysis.

Social Media Research
Jason Thatcher, Robert M. Mason, Shawn Walker, Jeff Hemsley, Anatoliy Gruzd, Cecilia Aragon, Tera Marie Greensmith, Vetria Byrd, Jim Thatcher

Security

Credibility Assessment and Screening Technologies (CAST)
Jay F. Nunamaker, Jr., Judee K. Burgoon, Matthew L. Jensen, Thomas O. Meservy, Jeffry Proudfoot

Garden Isle 4  
Tuesday and Wednesday, 9:00 am - 4:00 pm

This symposium offers a stimulating forum among academic researchers, local, state and federal law enforcement, intelligence experts and information security workers who are interested in assessing credibility and deception detection. New tools, technologies, processes and procedures will be discussed and debated concerning their efficiency, effectiveness, and usefulness for aiding in credibility assessment and deception detection.

Synthesizing Effect Research Groups Comprising Behavioral Scientists, Software Developers, and Computer Scientists
Edward Boyer, Megan Ranney, Rochelle Rosen

Kauai 4  
Tuesday, 1:00 - 4:00 pm

This Program will identify differences in research approach that characterize behavioral scientists, programmers and engineers. It will then discuss the advantages and disadvantages of those approaches and describe methods for creating highly functional research teams comprising disparate academic fields. Finally, the Program will discuss strategies for generating research protocols that heighten the chance for success with federal funding agencies.
The purpose of this symposium is to take stock of the latest developments in cybersecurity and to define an agenda for action, in particular in defining specific areas for research at future HICSS conferences. Given the extreme complexity of cybersecurity, the common goal that this symposium seeks to explore is how to minimize enterprise security risk while ensuring business continuity. Researchers with interest in cybersecurity will be invited to share their research and help sketch a HICSS agenda for research in Internet security. With a highly interdisciplinary approach to security analysis, this symposium seeks to facilitate a research framework that helps strengthen cybersecurity in action at all levels.

Cybersecurity Competitions
Gregory White

This tutorial is designed to answer the following questions: how do I choose the right competition for my program? and how do I conduct my own competition? It will cover the basics of how to develop a competition and the tools that can be used in conducting a competition. The goal is to help faculty members understand the many different types of competitions, the benefit of each type, and how to select competitions that will enhance their own classroom objectives so that they can conduct their own local competition in order to enhance their own program and the learning experiences for their students.

Software Reuse and Reusability Based on Business Processes and Requirements
Hermann Kaindl

Software reuse and reusability are often addressed at the level of code or low-level design. In contrast, this tutorial explains them based on business processes and requirements. Topics that will be discussed in this tutorial include:

- The concept of reuse and reusability based on business processes and requirements
- Trade-offs between benefits and costs of reuse and reusability
- Approaches for reuse and reusability
- A new Feature-Similarity Model
Towards Strategic Usability
Suzanne Kieffer, Jean Vanderdonckt

Increased usability has indubitably a positive impact on user efficiencies. However, the return on investment (ROI) of usability is underestimated and only a few companies employ usability science as a strategic asset. Participants will learn what exactly is meant by strategic usability; why strategic usability is so important for increasing the ROI of usability; how to detect and analyze the barriers to strategic usability; and how to implement strategic usability. They will then engage in a case-based workshop, in which they will practice concepts and examine opportunities towards strategic usability. The tutorial will enable them to assess and improve their skills in preparing and justifying strategic usability.

Software Technologies

Cognitive Computing and Cognitive Assistants for Research and Teaching
Dianne Fodell, Maureen Norton, James Spohrer, Haluk Demirkan

As the proud sponsor of HICCS-49, the IBM team invites participants to a joint exchange of ideas in the compelling new research area of Cognitive Systems for Smarter Business and Society.

Cognitive systems continuously learn from ongoing interactions with people and information, becoming more knowledgeable and helpful over time. It won’t be long before each of us has our own personal “cognitive assistant” that augments our capabilities and performance on tasks that involve vast amounts of data unthinkable a generation ago.

At HICSS-49, cognitive systems related sessions include:

- A tutorial on Cognitive Computing and Cognitive Assistants for Research and Teaching
  January 5, 9:00 am – 12:00 pm at Kauai 5

- A minitrack on Smart Service Systems: Analytic, Cognition and Innovation
  January 6, 2:00 pm – 5:30 pm at Kauai 2

- An interactive workshop on IBM Bluemix and Cognitive Watson Services
  January 7, 3:30 pm – 5:30 pm at Grand Ballroom 1

We hope to see you at any or all of these sessions!

Jim Spohrer, Director and IBM Team
IBM Global University Programs
and Cognitive Systems Institute Group
RESEARCH PAPER PRESENTATIONS BY TRACKS

Software Technology
Organizational Systems and Technology
Knowledge Innovation and Entrepreneurial Systems
Internet and the Digital Economy
Technology in Healthcare
Electronic Government
Electric Energy Systems
Digital and Social Media
Decision Analytics, Mobile Services and Service Science
Collaboration Systems
**Collaboration Systems and Technologies Track (CL)**  
Co-Chairs: Robert Briggs and Jay Nunamaker

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**Advances in Teaching and Learning Technologies**  
David Spencer, Timothy Ellis, Eric Santanen

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

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

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


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

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

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

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

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

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

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

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

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

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

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

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

**Communication and Information Systems Technology for Crisis and Disaster Management**  
Julie Dugdale, Jose J. Gonzalez, Murray Turoff

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

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

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

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

Experiences in Emergency Response at the Great East Japan Earthquake and Tsunami | Yuko Murayama, Jun Sasaki, Dai Nishioka
Insights from a Simulation Model of Disaster Response: Generalization and Action Points | Jose J. Gonzalez, Leire Labaka, Starr Roxanne Hiltz, Murray Turoff

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

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


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

Understanding Communications in Medical Emergency Situations | Lyuba Mancheva, Julie Dugdale


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

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

Semi-Automated Questions as a Cognitive Stimulus in Idea Generation | Dominik Siemon, Taras Rarog, Susanne Robra-Bissantz

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

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

Cross-Organizational and Cross-Border IS/IT Collaboration | Ilsang Ko, Daniel Beimborn


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

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

Continuance Intention to Use Social Network Game: The Philippines Case | Arceli Piguing, Ilsang Ko
Inculcating Institutional Infrastructure to Support International Collaboration | Airong Luo, Ted Hanss, Dave Malicke, Greg Doyle, Nadia Tagoe

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

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

**Best Paper Nomination**

Data Science for Collaboration
Souren Paul, Lakshmi Iyer, Lina Zhou

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

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

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

Decision, Negotiation, Leadership, Social Communities and Technology
Tung Bui, Melvin Shakun

Open Strategic Planning in Universities: A Case Study | Alireza Amrollahi, Amir Hosein Ghapnchi

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

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

**Selecting Physiological Features for Predicting Bidding Behavior in Electronic Auctions** | Marius B. Müller, Marc T. P. Adam, David J. Cornforth, Raymond Chiong, Jan Krämer, Christof Weinhardt

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

Design and Innovation of Social Networking Services
Bo Sophia Xiao, Eric Lim, Chee-wee Tan

Enrichment of Smart Home Services by Integrating Social Network Services and Big Data Analytics | Maximilian Wich, Tommi Kramer

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

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

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

Trust Development in Globally Distributed Collaboration: A Case Study in China | Xusen Cheng, Jianyue Liu, Douglas Druckemiller, Shixuan Fu

Dysfunctional Groups: An Exploratory Study | Anil Aggarwal

Remotely Piloted Aircraft Systems (RPAS) for Extreme Missions in the Arctic and the Monitoring of the Ukraine Crisis by the Organization for Security and Co-operation in Europe (OSCE) | Harri Ruoslahti, Juha S. Knuttila
Team Network Evolution while Undergoing a Lean Transformation: A Missing Success Indicator? | Jorge Colazo

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

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

**Global Virtual Teams**
Mike Hine, Derrick L. Cogburn

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

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

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

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


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


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


A Framework for Selecting and Optimizing Color Scheme in Web Design | Kevin Ferris, Xuesong (Sonya) Zhang
Human-Computer Interaction: Information Design Utilizing Behavioral, Neurophysiological, and Design Science Methods
Christoph Schneider, Joe Valacich, Angelika Dimoka

CL 20  Grand Ballroom 7  Thursday, 8:00 - 9:30 am

Understanding the Impact of Interruptions on Knowledge Work: An Exploratory Neuroimaging Study | Pankush Kalgotra, Ramesh Sharda, Roger McHaney
Reading a Newspaper on Print versus Screen: A Motivational Perspective | Dorina Rajanen, Mikko Salminen, Niklas Ravaja

CL 21  Grand Ballroom 7  Thursday, 10:00 - 11:30 am

Social Viewing, Bullet Screen, & User Experience: A First Look | Soussan Djamasi, Adrienne Hall-Phillips, Zaozao Liu, Wenting Li, Jing Bian
How to Design Interfaces for Product Recommendation Agents to Influence the Purchase of Environmentally-Friendly Products | Tian Yu, Izak Benbasat, Ronald T. Cenfetelli
Colors and Trust: The Influence of User Interface Design on Trust and Reciprocity | Florian Hawlitschek, Lars-Erik Jansen, Ewa Lux, Timm Teubner, Christof Weinhardt

CL 22  Grand Ballroom 7  Thursday, 2:00 - 3:30 pm

Visual Representation of Information as an Antecedent of Perceptive Efficiency: The Effect of Experience | Lisa Falschlunger, Othmar Lehner, Horst Treiblmaier, Christoph Eisl
Hands that Speak: An Integrated Approach to Studying Complex Human Communicative Body Movements | Nadir Weibel, So-One Hwang, Steven Rick, Erfan Sayyari, Dan Lenzen, Jim Hollan
Serious Games: An Evaluation Framework and Case Study | David W. Wilson, Jeff Jenkins, Nathan Twyman, Matthew Jensen, Joe Valacich, Norah Dunbar, Scott Wilson, Claude Miller, Bradly Adame, Yu-Hao Lee, Judee Burgoon, Jay F. Nunamaker

IT Enabled Collaboration in Developing Countries
Xusen Cheng, Xiangbin Yan, Deepinder Bajwa

CL 23  Grand Ballroom 6  Thursday, 2:00 - 3:30 pm

OpenLabs - Open Source Microfactories Enhancing the FabLab Idea | Manuel Moritz, Tobias Redlich, Sonja Buxbaum-Conradi, Sissy-Ve Basmer-Birkenfeld, Babsile Daniel Osunyomi, Jens Wulfsberg, Pascal Krenz, Susanne Heubischl
Investigating Trust Factors in Global Virtual Collaboration: A Case Study of a Manufacturing Company in China | Xusen Cheng, Jianyue Liu, Jianqing Huang, Xiangbin Yan, Yajing Han
Promoting Health Behaviors with Help of Online Social Ties: An Exploratory Study | Yumei Li, Xiangbin Yan, Yong Tan

CL 24  Grand Ballroom 6  Thursday, 4:00 - 5:30 pm

A Personality Matching-aided Approach for Supervisor Recommendation | Mingyu Zhang, Jianshan Sun, Jian Ma, Tailai Wu, Zhiying Liu
Research on Optimal Selection Strategy of Search Engine Keywords Based on Multi-armed Bandit | Juan Qin, Wei Qi, Baojian Zhou
**Diversified Recommendation Incorporating Item Content Information Based on MOEA/D | Jinkun Wang, Yezheng Liu, Jianshan Sun, Yuanchun Jiang, Chunhua Sun

Mobility-enhanced Social Collaborations for Value Creation
Stephen Choi, Kun Chang Lee

CL 25  Boardroom  Wednesday, 2:00 - 3:30 pm

Investigating the Influence of Offline Friendship on Twitter Networking Behaviors | Youngsoo Kim, Felicia Natali, Feida Zhu, Eepeng Lim
The Positive Spillover Effect of Mobile Social Games on App Literacy | Mi Hyun Lee, Sang Pil Han, Sungho Park, Wonseok Oh
## Processes and Technologies for Small and Large Team Collaboration

Doug Derrick, Imed Boughzala, Christopher B.R. Diller

### CL 26  Garden Isle 5  Wednesday, 2:00 - 3:30 pm

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

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

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

### CL 27  Garden Isle 5  Wednesday, 4:00 - 5:30 pm

Supporting Organizational Sensemaking with Collaboration Engineering | Sami Jantunen, Tapio Koivisto

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

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

## Social and Psychological Perspectives in Collaboration Research

Gert-Jande Vreede, Triparna de Vreede

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

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

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

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

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

Measurement and Outcomes of Identity Communication in Virtual Teams | Susan Brown, Sherry Thatcher, David Wilson

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

## Serious Games, Gamification and Innovation

Imed Boughzala, Hélène Michel

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

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

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

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

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

## CL 31: Social Media and e-Business Transformation

Christy Cheung, Matthew K. O. Lee, Christian Wagner

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

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

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

Moving On: Predicting Continuance Intention on Social Networking Sites through Alternative Products | Christopher Sibona, Judy Scott
Technology Mediated Collaborations in e-Health
Souren Paul, Arkalgud Ramaprasad, Nilmini Wickramasinghe


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

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

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

**Energy Points: A New Approach to Optimizing Strategic Resources by Leveraging Big Data | Nigel P. Melville, Ory Zik
Decision Model for Sustainable Electricity Procurement Using Nationwide Demand Response | Joscha Märkle-Huß, Stefan Feuerriegel, Dirk Neumann

Engaging Consumers in Ethical Consumption: The Effect of Real-time Environmental Information on Eco-friendly Consumer Choice | Laurie Giddens, Lazaros Goutas, Dorothy Leidner, Juliana Sutanto

Towards Ecological Workflow Patterns as an Instrument to Optimize Business Processes with Respect to Ecological Goals | Patrick Lübbecke, Peter Fettke, Peter Loos

Extracting Opinion Targets from Environmental Web Coverage and Social Media Streams | Albert Weichselbraun, Arno Scharl, Stefan Gindl

Big Data Analytics: Concepts, Methods, Techniques
Stephen Kaisler, Frank Armour, Alberto Espinosa

Analysis of How Underlying Topics in Financial News Affect Stock Prices Using Latent Dirichlet Allocation | Stefan Feuerriegel, Antal Ratku, Dirk Neumann

Information Processing in Securitized Real Estate Markets | Jan-Otto Jandl

How Do Investor Relations Related Disclosures on Facebook Contribute to a Company’s Information Environment? | Tawei Wang, Hsiao-Lun Lin, Ju-Chun Yen

Decision Analytics, Mobile Services, and Service Science Track (DA)
Co-Chairs: Christer Carlsson and Haluk Demirkan

Addressing Grand Challenges with Systems Sciences
Minitrack Chair: Daniel Soper

Life Coach: Using Big Data and Analytics to Facilitate the Attainment of Life Goals | Joseph A. Cazier, Jennifer A. Green
**Latticing and Device-Histories: Dynamic Customer Profiling for Mobile Advertising Campaigns** | Donald Kridel, Daniel Dolk

A Framework of Value Creation from Business Intelligence and Analytics in Competitive Sports | Olivier Caya, Adrien Bourdon

The Big Data Analytics Gold Rush: A Research Framework for Coordination and Governance | J. Alberto Espinosa, Frank Armour

**Business Value of the Internet of Things**
Fred Riggins, Samuel Fosso Wamba, Matthias Dehmer

Big Data Analytics-enabled Supply Chain Transformation: A Literature Review | Mondher Feki, Imed Boughzala, Samuel Fosso Wamba

**Data, Text and Web Mining for Business Analytics**
Minitrack Chair: Dursun Delen

**Detecting Negation Scopes for Financial News Sentiment Using Reinforcement Learning** | Nicolas Pröllochs, Stefan Feuerriegel, Dirk Neumann

Augmenting Text Mining Approaches with Social Network Analysis to Understand the Complex Relationships among Users’ Requests: A Case Study of the Android Operating System | Chan Won Lee, Sherlock A. Licorish, Bastin Tony Roy Savarimuthu, Stephen G. MacDonell

A Unified Framework for Fine-Grained Opinion Mining from Online Reviews | Hao Wang, Chen Zhang, Hongzhi Yin, Wei Wang, Jun Zhang, Fanjiang Xu

Using Semi-supervised Learning for the Creation of Medical Systematic Review: An Exploratory Analysis | Prem Timsina, Jun Liu, Omar El-Gayar, Yanyan Shang

**Enhancing Retrieval and Ranking Performance for Media Search Engine by Deep Learning** | Xugang Ye, Jingjing Li, Zijie Qi, Xiaodong He

Research on Stock Network Modeling and Risk Propagation Based on Complex Network Analysis | Xin Jin, Ying Wu, Chu Jin

Comparing European and North American IS Research Using Concept Frequency Analysis: Methods and Preliminary Findings | Daniel S. Soper, Ofir Turel

Firm Failure Timeline Prediction: Math Programming Approaches | Young U. Ryu

**Decision Support for Smart City and E-Society Services**
Wei Xu, Jian Ma

Predicting Travel Volumes for Long-Distance Coach Services through Big Data Analytics - A Case Study on German Public Viewing Events during the UEFA EURO 2016 | Corinna Fohrholz, Christian Glaschke

Person-Oriented Modeling Methodology: A Case Study on Personal Credit Scoring | Qingyuan Xu, Ningchen Wang

**Digital and ICT-Enabled Services**
Tuure Tuunanen, Tilo Boehmann, Ola Henfridsson

**From Fuzzy Exploration to Transparent Advice: Insights into Mobile Advisory Services** | Tino Comes, Gerhard Schwabe

Value Co-Creation and Co-Destruction in an IS Artifact: Contradictions of Geocaching | Tero Vartiainen, Tuure Tuunanen

A Purpose-Based Typology for Systemic Features Enabling Value Co-Creation in Consumer Information Systems | Karri Mikkonen, Jose Teixeira, Mikko Pynnönen, Kari Korpela, Jukka Hallikas
Exploring vs. Enjoying: The Choice between Hedonic IS in Post-Adoption Scenarios | Philipp Hechler, Friedrich Born, Julia Kroenung


**Digital Service Innovations based on “Open” Phenomena and Practices**
Juho Lindman, Matti Rossi, Virpi Kristiina Tuunainen

The Dynamics of Digital Platform Innovation: Apple’s Strategy to Control Modular and Architectural Innovation in iOS | Ben Eaton

**Digital Service Innovation from Open Data: Exploring the Value Proposition of an Open Data Marketplace** | Göran Smith, Hosea Ayaba Ofe, Johan Sandberg

The Evolution of a Sharing Platform into a Sustainable Business | Ioanna Constantiou, Ben Eaton, Virpi Kristiina Tuunainen

Gamification: Motivations, Effects, and Analytics
Juho Hamari, Petri Parvinen

Design Strategies for Gamified Physical Activity Applications for Older Adults | Dennis L. Kappen, Lennart E. Nacke, Kathrin M. Gerling, Lia E. Tsotsos

The Impact of Gamification-Induced Emotions on In-Car IS Adoption – The Difference between Digital Natives and Digital Immigrants | Carolin Ebermann, Everlin Piccinini, Benjamin Brauer, Sebastian Busse, Lutz Kolbe

**When Competition is the Loser** | Robin Stefan Brouwer

Reimagining Gamification through the Lens of Activity Theory | Hendranus Vermeulen, James Gain, Patrick Marais, Siobhan O'Donovan

Monitoring Gamification in International Patent Documents: Technology Classes, Firms and Preliminary Value Indicators | Patrick J. Höflinger, Eric Zimmerling

Why do People Buy Virtual Goods? A Literature Review | Juho Hamari, Lauri Keronen

**Humanitarian Operations Research - Decision Analytics for Crisis and Disaster Management**
Erik Kropat, Silja Meyer-Nieberg

Disaster Management and Social Media Use for Decision Making by Humanitarian Organizations | Alivelu Mukkamala, Roman Beck

**A Multi-layered Adaptive Network Approach for Shortest Path Planning During Critical Operations in Dynamically Changing and Uncertain Environments** | Erik Kropat, Silja Meyer-Nieberg

Intelligent Decision Support for Logistics and Supply Chain Management
Stefan Voss, Hans-Jurgen Sebastian

Strategic Decision Support for the Bi-objective Location-Arc Routing Problem | Sandra Huber

Integrating Side Payments into Collaborative Planning for the Distributed Multi-Level Unconstrained Lot Sizing Problem | Jörg Homberger, Hermann Gehring, Tobias Buer

Modular Modeling and Optimization of Temporal Manufacturing Processes with Inventories | Mohan Krishnamoorthy, Alexander Brodsky, Daniel A. Menascé
Supply Chain Capabilities and Information Technology Characteristics: Interaction Effects on Firm Performance | Soojung Oh, Young U. Ryu, Hongsuk Yang

A Mathematical Programming Model for Matching Sequential Activities in Logistics Systems with Tolerance for Erroneous or Missing Data | L. Douglas Smith, Jan Fabian Ehmke

Open Forum on Future Perspectives of Intelligent Decision Support for Logistics and Supply Chain Management

Interactive Visual Decision Analytics
David S. Ebert, Brian Fisher, Kelly Gaither

Mixed-Initiative for Big Data: The Intersection of Human + Visual Analytics + Prediction | Stephen Makonin, Daniel McVeigh, Wolfgang Stuerzlinger, Khoa Tran, Fred Popowich

The Human-Computer System: Towards an Operational Model for Problem Solving | William Ribarsky, Brian Fisher

ParallelSpaces: Simultaneous Exploration of Feature and Data for Hypothesis Generation | Deokgun Park, Jungu Choi, Niklas Elmqvist

The Personal Equation of Interaction for Categorization of Composite Glyphs | Tera Marie Greensmith

Mobile Value Services
Pirkko Walden, Tomi Dahlberg, Esko Penttinen

Business Models for Free Digital Goods and Services | Nicole Eling, Christian Büchner, Peter Buxmann

Business Model Change and Refinement along Business Model Lifecycle: Evidences From a Multiple Case Study on Mobile Telecommunications New Ventures | Antonio Ghezzi, Andrea Cavallaro

Mobile Banking Services Continuous Usage – Case study of Finland | Aijaz A. Shaikh, Heikki Karjaluoto

Addiction to Mobile Phone or Addiction through Mobile Phone? | Behrooz Davazdahemami, Bryan Hammer, Amr Soror

The Impact of Mere Exposure Effect on Smartphone Addiction | Chongyang Chen, Kem Z.K. Zhang, Sesia J. Zhao, Matthew K.O. Lee, Tianjiao Cong

Multi-Criteria Decision Analysis and Support Systems
Rakesh Sarin, Heinz Roland Weistroffer

**Tailoring Group Package Recommendations to Large Heterogeneous Groups Based on Multi-Criteria Optimization | Hanan Mengash, Alexander Brodsky

Improving Technology Investment Decisions at Hospitals through System Dynamics and Decision Analysis | Alba Rojas-Cordova, Arash Baghaei-Lakeh, Hui Zhang, Christian Wernz, Hazhir Rahmandad, Anthony D. Slonim, Ari Caroline

Testing Best Practices to Reduce the Overconfidence Bias in Multi-Criteria Decision Analysis | Valentina Ferretti, Sule Guney, Gilberto Montibeller, Detlof von Winterfeldt

Multiobjective Decision Analysis with Probability Management for Systems Engineering Trade-off Analysis | Alex MacCalman, Gregory S. Parnell
**Service Analytics**
Hansjörg Fromm, Thomas Setzer, Gerhard Satzger

**Best Paper Nomination**

DA 23  Garden Isle 1  Friday, 1:00 - 2:30 pm

**Application of Hidden Markov Model to Analyze Enthusiasts’ Dynamics of A Lifestyle Brand** | Stephane Cheung, Yasuyuki Shirai, Hiroyuki Morita, Hiroyuki Takashima, Masakazu Nakamoto, Edward Hak-Sing Ip

Subjective Norms and Customer Adoption of Mobile Banking: Taiwan and Vietnam | Chih-Chin Liang

Business Analysis of Digital Discourse for New Service Development: A Theoretical Perspective and a Method for Uncovering the Structure of Social Representations for Improved Service Development | Friedrich Chasin

**Service Science**
Paul Maglio, Fu-ren Lin, Michael Shaw

DA 24  Kauai 2  Wednesday, 8:00 - 9:30 am

Designing Institutional Complexity to Enable Innovation in Service Ecosystems | Kaisa Koskela-Huotari, Jaakko Siltaloppi, Stephen L. Vargo

Designing a Peer-to-Peer Sharing Service as Fuel for the Development of the Electric Vehicle Charging Infrastructure | Martin Matzner, Friedrich Chasin, Moritz von Hoffen, Florian Plenter, Jörg Becker


**Smart Service Systems: Analytic, Cognition & Innovation**
Haluk Demirkan, Jim Spohrer, Ralph Badinelli

DA 25  Kauai 2  Wednesday, 10:00 - 11:30 am

**In-Store Gamification: Testing a Location-Based Treasure Hunt App in a Real Retailing Environment** | Marcus Olsson, Johan Högberg, Erik Wästlund, Anders Gustafsson

Digital Health Platform Complementor Motives and Effectual Reasoning | Anssi Smedlund

Decisions in Mobility Service Networks – Coordinating Demand and Supply Using a Mechanism Design Approach | Christopher Lisson, Nico Roedder, Philipp Stroehle, Christof Weinhardt

Structure, Content and Use of IT Service Catalogs – Empirical Analysis and Development of a Maturity Model | Felicitas Nord, Regine Dörbecker, Tilo Böhmann

DA 26  Kauai 2  Wednesday, 2:00 - 3:30 pm

Learning Track Representation and Trends for Conference Analytics | Pengfei Liu, Shoaib Jameel, King Keung Wu, Helen Meng

How to Effectively Train IBM Watson: Classroom Experience | Syed Shariyar Murtaza, Paris Lak, Ayse Bener, Armen Pischdotchian

**RFPCog: Linguistic-based Identification and Mapping of Service Requirements in Request for Proposals (RFPs) to IT Service Solutions** | Hamid R. Motahari-Nezhad, Juan M. Cappi, Taiga Nakamura, Mu Qiao

DA 27  Kauai 2  Wednesday, 4:00 - 5:30 pm


Out of Vocabulary Words Decrease, Running Texts Prevail and Hashtags Coalesce: Twitter as an Evolving Sociolinguistic System | Suman Kalyan Maity, Bhadreswar Ghuku, Abhishek Upmanyu, Animesh Mukherjee

Converged Reality: A Data Management Research Agenda for a Service-, Cloud-, and Data-driven Era | Michael Smit
### Soft Computing
Rudolf Kruse, Gabriella Pasi, Jose Alonso

<table>
<thead>
<tr>
<th>DA 28</th>
<th>Garden Isle 4</th>
<th>Thursday, 10:00 - 11:30 am</th>
</tr>
</thead>
<tbody>
<tr>
<td>ε Constrained CCPSO with Different Improvement Detection Techniques for Large-Scale Constrained Optimization</td>
<td>Chen Peng, Qing Hui</td>
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<td>Determination of Event Patterns for Complex Event Processing Using Fuzzy Unordered Rule Induction Algorithm with Multi-Objective Evolutionary Feature Subset Selection</td>
<td>Nijat Mehdiyev, Julian Krumeich, Dirk Werth, Peter Loos</td>
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### Streaming Data Analytics and Applications
Mehmed Kantardzic, Jozef Zurada

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<thead>
<tr>
<th>DA 29</th>
<th>Grand Ballroom 3</th>
<th>Friday, 1:00 - 2:30 pm</th>
</tr>
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<tbody>
<tr>
<td>Real-Time Driving Monitor System: Combined Cloud Database with GPS</td>
<td>Wei-Yen Hsu, Kun-Sin Lien, Yu-Chan Wang, Yu-Ting Zheng, Guan-Han Li</td>
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<td>Smart Preprocessing Improves Data Stream Mining</td>
<td>Hanqing Hu, Mehmed Kantardzic</td>
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<td>Epoch Persistence: Safe, Efficient, On-Demand Rendering for Streaming Data</td>
<td>Joseph A. Cottam, Andrew Lumsdaine</td>
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### Systemic Financial Risk Analytics
Peter Sarlin, Tuomas Peltonen

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<tr>
<th>DA 30</th>
<th>Kauai 5</th>
<th>Thursday, 4:00 – 5:30 pm</th>
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<tbody>
<tr>
<td>**The Effect of Diversification on Financial Contagion</td>
<td>Xian Cheng, Xinbo Sun, Stephen Shaoyi Liao, Zhongsheng Hua, Xiaolu Yang, Mengshen Huang</td>
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<td>A R-SOM Analysis of the Link between Financial Market Conditions and a Systemic Risk Index based on ICA-factors of Systemic Risk Measures</td>
<td>Patrick Kouontchou, Amaury Lendasse, Yoan Miche, Alejandro Modesto, Peter Sarlin, Bertrand Maillet</td>
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### Wearables and Quantified Self
Tayfun Keskin, Deanna Kennedy, Hugo Parades

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<tr>
<th>DA 31</th>
<th>Grand Ballroom 3</th>
<th>Friday, 3:00 - 4:30 pm</th>
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<tr>
<td>A Resource Complementarity View (RCV) of Value Creation in the Context of Connected Smart Devices</td>
<td>Aaron Baird, Frederick J. Riggins</td>
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<td>Crowdfunding for Financing Wearable Technologies</td>
<td>Fehmi Tanrisever, Karen-Ann Wismans - Voorbraak</td>
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<td>A Pricing Model for the Internet of Things Enabled Smart Service Systems</td>
<td>Deanna Kennedy, Tayfun Keskin</td>
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### Digital and Social Media Track (DSM)
Co-Chairs: Kevin Crowston and Karine Nahon

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<thead>
<tr>
<th>DSM 1</th>
<th>Garden Isle 2</th>
<th>Thursday, 2:00 - 3:30 pm</th>
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<tbody>
<tr>
<td>Designing for Positive User Experience in Product Design: A Qualitative Analysis of Toolkit Design Elements and their Implications on Emotional Reactions and Perceptions</td>
<td>Kathrin Füller, Markus Böhm, Helmut Krcmar</td>
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<td>The Dual Nature of Information Systems in Enabling a New Wave of Hardware Ventures: Towards a Theory</td>
<td>Frederik von Briel, Jan Recker</td>
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<td>The Use of Social Media Tools in the Product Life Cycle Phases: A Systematic Literature Review</td>
<td>Jeremi Roch, Elaine Mosconi</td>
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**Collective Intelligence and Crowds: Structure, Roles, and Identity**

Jeffrey Nickerson, Phina Fichman, Donald Steiny

**DSM 2**  
Garden Isle 2  
Thursday, 4:00 - 5:30 pm

Tweeting Like Taylor Swift? Affordances, Status Production, and Online Platforms | Stefan Seidel, Nicholas Berente, Stefan Deportoli, Nikhil Srinivasan

Informating Transport Transparency | Magnus Andersson, Henrik Sternberg

**Risk Taking in Online Crowdsourcing Tournaments** | Tim Straub, Timm Teubner, Christof Weinhardt

**Critical and Ethical Studies of Digital and Social Media**

Mintirack Chair: Robert Mason, Mary Gray, Tarleton Gillespie

**DSM 3**  
Kauai 1  
Friday, 8:00 - 9:30 am

A Fair Exchange: Exploring How Online Privacy is Valued | Michael A. Katell, Sonali R. Mishra, Ligaya Scaff

The Political Economy of Creative Entrepreneurship on Digital Platforms: Case Study of Etsy.com | Samantha Close

Software Update Unrest: The Recent Happenings Around Tinder and Tesla | Amelia Acker, Brian Beaton

**DSM 4**  
Kauai 1  
Friday, 10:00 - 11:30 am

**“We Aren’t All Going to Be on the Same Page About Ethics:” Ethical Practices and Challenges in Research on Digital and Social Media** | Katie Shilton, Sheridan Sayles

A Critical Reflection on Social Media Research Using an Autoethnographic Approach | Jordan Eschler

**Data Analytics and Data Mining for Social Media**

David J Yates, Jennifer Xu, Dominique Haughton, Xiangbin Yan

**DSM 5**  
Grand Ballroom 7  
Friday, 8:00 - 9:30 am

Can Visualization Techniques Help Journalists to Deepen Analysis of Twitter Data? Exploring the “Germany 7 x 1 Brazil” Case | Caroline Q. Santos, Roberto Tietzmann, Marcelo Träsel, Silvia Moraes, Isabel H. Manssour, Milene S. Silveira

Success Factors of Online Petitions: Evidence from Change.org | Ahmed El Noshokaty, Shuyuan Deng, Dong-Heon Kwak

**Brand-Related Twitter Sentiment Analysis Using Feature Engineering and the Dynamic Architecture for Artificial Neural Networks** | David Zimbra, M. Ghiassi, Sean Lee

Rumors at the Speed of Light? Modeling the Rate of Rumor Transmission during Crisis | Li Zeng, Kate Starbird, Emma S. Spiro

The People Have Spoken: Conflicting Brazilian Protests on Twitter | Cassia de Souza Carvalho, Fabricio Olivetti de França, Denise Hideko Goya, Claudio Luis de Camargo Penteado

Measuring Emotion Bifurcation Points for Individuals in Social Media | Jiandong Zhou, Yanping Zhao, Huaping Zhang, Tianming Wang

**DSM 6**  
Grand Ballroom 7  
Friday, 10:00 - 11:30 am
On Writing an Evaluation Report in Afghanistan: Making Heterogeneity Cohere through Writing Infrastructures, Format and Authorship | Tjitske Holtrop

**Observing the Materiality of Values in Information Systems Research | Jaime Snyder, Katie Shilton, Sara Anderson

Does the IS Artifact Matter in Sociomateriality Research? A Literature Review of Empirical Studies | Silke Weissenfels, Katharina Ebner, Sven Dittes, Stefan Smolnik

**Network Approach to Regime Type and Global Internet Connectedness | Hyunjin Seo, Stuart Thorson

Evolution, Structure and Users’ Attachment Behavior in Enterprise Social Networks | Katharina Wiesneth

Developing the Network Awareness Construct: Evidence Supporting the Ability to Understand Social Situations | Michael A. Stefanone, Alaina Iacobucci, Elena Svetieva

Networked Solidarity: An Exploratory Network Perspective on Twitter Activity Related to #illridewithyou | Chamil Rathnayake, Daniel D. Suthers

The Influence of Retweeting Robots During Brazilian Protests | Éric Tadeu Camacho de Oliveira, Fabricio Olivetti de França, Denise Hideko Goya, Claudio Luis de Camargo Penteado

Social Computing for Sustainability
David Sundaram, Gabrielle Peko, Shahper Vodanovich

Bicycle Sharing, Social Media, and Environmental Sustainability | Otto Benjamin Piramuthu, Wei Zhou
DSM 13  Kauai 1  Thursday, 10:00 - 11:30 am

Did You LINE Today? Strategies for Creating LINE Online to Offline Customer Experiences  |  Chien-I Weng, Hsi-Peng Lu, Pei-Shan Wei

Getting a Job via Career-oriented Social Networking Sites  |  Ricardo Buettner

From Blogosphere to Social Commerce: A Laddering Analysis of Sellers’ Motivation  |  Syahida Hassan, Janet Toland, Mary Tate

Social Networking and Communities
Karine Nahon, Caroline Haythornthwaite

DSM 14  Kauai 1  Wednesday, 8:00 - 9:30 am

Community Management on Social Networking Sites: Why and How Stakeholders Use Corporate Facebook Pages  |  Christopher H. Ruehl, Diana Ingenhoff

How Do Online Social Networks Support Decision Making? A Pluralistic Research Agenda  |  Valeri Sadovykh, David Sundaram

Consumer Acceptance and Use of Instagram  |  Joel Järvinen, Roope Ohtonen, Heikki Karjaluoto

DSM 15  Kauai 1  Wednesday, 10:00 - 11:30 am

Relational and Masspersonal Maintenance: Romantic Partners’ Use of Social Network Websites  |  Stephanie Tom Tong, David K. Westerman

Play Together, Stay Together? Community Cohesion and Stability in an MMO  |  Nathaniel Poor, Marko Skoric

Understanding the Factors Affecting Users’ Like Intentions in Social Network Services: A Multi-Dimensional Value Perspective  |  Yongqiang Sun, Dina Liu, Xiao-Liang Shen, Xi Zhang, Nan Wang

DSM 16  Kauai 1  Wednesday, 2:00 - 3:30 pm

Disaster Data Assemblages: Five Perspectives on Social Media and Communities in Response and Recovery  |  Alex Lambert

A Systematic Literature Review of Twitter Research from a Socio-Political Revolution Perspective  |  Ricardo Buettner, Katharina Buettner

**Dissidents versus Allegiants on Facebook: An Examination of Facebook Page Networks Related to Channel 4 War Crime Videos on Sri Lanka  |  Chamil Rathnayake, Daniel D. Suthers

Social Media and Location
Jim Thatcher, Britta Ricker

DSM 17  Garden Isle 4  Thursday, 4:00 - 5:30 pm

The Effect of Location Granularity on Semantic Location Inferences  |  Kolbeinn Karlsson, Stephen B. Wicker

Mining Semantic Sequential Patterns from Geo-tagged Photos  |  Guochen Cai, Kyungmi Lee, Ickjai Lee

Electronic Government Track (EG)
Chair: Hans Jochen Scholl

Big and Linked Data (BOLD) in Government
Marjin Janssen, Yannis Charalabidis, Helmut Krcmar

EG 1  Kauai 4  Wednesday, 10:00 - 11:30 am

Value Creation on Open Government Data  |  Judie Attard, Fabrizio Orlandi, Sören Auer

An Open Data and Open Services Repository for Supporting Citizen-Driven Application Development for Governance  |  Yannis Charalabidis, Charalampos Alexopoulos, Vasiliki Diamantopoulou, Aggeliki Androutsopoulou
**Cybersecurity**
Wm. Arthur Conklin, Gregory White, Ray Vaughn

**EG 2**  
**Grand Ballroom 1**  
**Friday, 8:00 - 9:30 am**

Using an Improved Cybersecurity Kill Chain to Develop an Improved Honey Community | James R. Rutherford, Gregory B. White

Combining Mandatory and Attribute-based Access Control | Lawrence Kerr, Jim Alves-Foss

You Look Suspicious!!: Leveraging Visible Attributes to Classify Malicious Short URLs on Twitter | Raj Kumar Nepali, Yong Wang

**EG 3**  
**Grand Ballroom 1**  
**Friday, 10:00 - 11:30 am**

Would Increased Regulation Reduce the Number of Information Breaches? | Mark L. Huson, Barbara Hewitt

IT vs OT Security: A Time to Consider a Change in CIA to Include Resilience | Wm. Arthur Conklin

**Emerging Topics in Electronic Government**
Tino Schuppan, Theresa Pardo, Elin Wihlborg

**EG 4**  
**Kauai 4**  
**Friday, 8:00 - 9:30 am**

A Storytelling Approach for Electronic Government Research | Ann-Sofie Hellberg

Positioning Brazil in International eGov Research: A Proposal Based from Literature Review | Taiane Ritta Coelho, Erico Przybilovicz, Maria Alexandra Cunha, Tiago Henrique Souza Echternacht

E-Government and the Transformation of Professionalism: The Case of the Police | Esther Ruiz Ben, Tino Schuppan

Understanding Public Sector Collaboration through Boundary Object Theory: A Case Study of an E-government Initiative in Sweden | Carl-Mikael Lönn, Elin Uppstrom

**Information and Communication Technologies for Development: Contributing to Human Development and Social Justice**
Ricardo Gomez, Øystein Sæbø, Alon Peled

**EG 5**  
**Kauai 4**  
**Thursday, 8:00 - 9:30 am**

Sustainability of ICTD Projects and its Influencing Factors: A Comprehensive Literature Review | Abel Pires da Silva, Walter D. Fernandez

Significance of ‘Contexts’ in ICTD Projects: Alignment and Misalignment of Stakeholders’ Interests | Abel Pires da Silva, Walter D. Fernandez

The Current State of Social Media Research for eParticipation in Developing Countries: A Literature Review | Alfatika Aunuriella Dini, Øystein Sæbø

**Inside the Insider Threat**
Matt Bishop, Kara Nance, William Claycomb

**EG 6**  
**Grand Ballroom 1**  
**Wednesday, 4:00 - 5:30 pm**

Towards Reducing the Data Exfiltration Surface for the Insider Threat | Bob G. Schlicher, Lawrence P. MacIntyre, Robert K. Abercrombie

**Explaining and Aggregating Anomalies to Detect Insider Threats** | Henry G. Goldberg, William T. Yound, Alex Memory, Ted E. Senator

Demystifying Insider Threat: Language-Action Cues in Group Dynamics | Shuyuan Mary Ho, Jeffrey T. Hancock, Cheryl Booth, Mike Burmester, Xiwen Liu, Shashank S. Timmaraju

**Open and Participatory Government**
Mitch Cochran, Scott Robertson, John Bertot

**EG 7**  
**Kauai 4**  
**Wednesday, 2:00 - 3:30 pm**

**Information Rules as Institutions Political Participation** | Madelyn Rose Sanfilipippo

An Analytical Tool for Event Interaction in a Smart City | Luain Carine Schünke, Paulo Luna de Oliveira, Marta Becker Villamill

Automatic Content Analysis of Media Framing by Text Mining Techniques | Fu-ren Lin, De Hao, Dachi Liao
Uncovering Governmental Transparency in Federative States: Diverse Government Spheres, Heterogeneous Outcomes | Taiane Ritta Coelho, Thomaz Anderson Barbosa da Silva, Maria Alexandra Cunha, Marco Antonio Carvalho Teixeira


Using Crowdstorm to Prospect Innovations in Federal Institutions of Education in Brazil to Reduce its Consumption of Electric Energy | Wagner Vilas Boas de Souza, Carolina Cristina M. Cavalcante, Paulo Henrique de Souza Bermejo, Pamela Aparecida dos Santos, Kelly Carvalho Vieira, Wellington Rodrigues Pereira, José Roberto Pereira

Collective Intelligence in Law Reforms: When the Logic of the Crowds and the Logic of Policymaking Collide | Tanja Aitamurto

**Policies and Strategies for Digital Government**
Peter Parycek, Antonio Cordella, Frank Bannister

**EG 8** Kauai 4 Wednesday, 4:00 - 5:30 pm

Measuring Usability in Decision Tools Supporting Collaborations for Environmental Disaster Response | Holly T. Ferguson, Sandra Gesing, Jarek Nabrzyski

oDMN: An Integrated Model to Connect Decision-Making Needs to Emerging Data Sources in Disaster Management | Flávio E. A. Horita, Daniel Link, João Porto de Albuquerque, Bernd Hellingrath

**How do Organizational Processes Recover Following a Disaster? - A Capital Resiliency Model for Disaster Preparedness - | Mihoko Sakurai, Richard T. Watson, Jiro Kokuryo**

**Services and Information**
Lemuria Carter, Ludwig Christian Schaupp, James Moore

**EG 10** Kauai 4 Wednesday, 8:00 - 9:30 am

How Usable and Clear are the Websites of European Capitals from the Point of View of German Students Adopting an E-Government Perspective? | Margit Scholl

**The Interplay between E-Government Service Adoption Preferences and E-Government Service Delivery in Germany | Lea Thiel**

“The Computer Says No!” – A Case Study on Automated Decision-making in Public Authorities | Elin Wihlborg, Hannu Larsson, Karin Hedström

The Public Value Creation of eGovernment: A Test of the Respecified IS Success Model | Olusegun Agbabiaka, Reginald Ugaddan

**EG 9** Kauai 4 Thursday, 2:00 - 3:30 pm

**The Role of Governance, Cooperation, and eService Use in Current eGovernment Stage Models | Morten Meyerhoff Nielsen**

Coercive E-government Policy Imposing Harm: The Need for a Responsible E-government Ethics | Jesper B. Berger

Creating Public Value through Digital Government: Lessons on Inter-Organizational Collaboration and Information Technologies | Luis F. Luna-Reyes, Sergio Picazo-Vela, Dolores E. Luna, J. Ramon Gil-Garcia

**Best Paper Nomination**
Smart Cities and Smart City Government
Mila Gasco, Elsa Negre, Camille Rosenthal-Sabroux

**EG 12** Kauai 4 Friday, 1:00 - 2:30 pm

Triple Helix in Smart Cities: A Literature Review about the Vision of Public Bodies, Universities, and Private Companies | Renata Paola Dameri, Elsa Negre, Camille Rosenthal-Sabroux
Smart Governance: A Cross-case Analysis of Smart City Initiatives | Suha Alawadhi, Hans J Scholl
What Makes a City Smart? Lessons from Barcelona | Mila Gasco

**EG 13** Kauai 4 Friday, 3:00 - 4:30 pm

Managing a Smart City’s Resilience to Ebola: An Ontological Framework | Matthew Liotine, Arkalgud Ramaprasad, Thant Syn
**Smart Cities and Transparency. Does Smartness Influence Transparency? | Maria Cucciniello, Nicola Bellé, Greta Nasi, Marco Mena
Towards the Construction of Smart City Index for Analytics (SM-CIA): Pilot-Testing with Major Cities in China Using Publicly Available Data | Yin-Leng Theng, Xuexin Xu, Kanokkorn Witedwittayanusat

**Social Media in Government**
Rodrigo Sandoval, Andrea Kavanaugh, Margit Christa Scholl

**EG 14** Kauai 4 Friday, 10:00 - 11:30 am

Delivering Public Value: Synergistic Integration via Gov 2.0 | Mohammed Aladalah, Yen Cheung, Vincent Lee
Characterizing Government Social Media Research: Towards a Grounded Overview Model | Rony Medaglia, Lei Zheng

Electronic Energy Systems Track (ES)
Co-Chairs: Robert Thomas and Thomas Overbye

**ES 1** Kuhio Theater Wednesday, 8:00 - 9:30 am

A Multi-objective Optimization Algorithm for Bus Type Assignments in Random Topology Power Grid Model | Seyyed Hamid Elyas, Zhifang Wang
Direct Methods to Estimate the Most Limiting Voltage Level and Thermal Violations in Coordinates of Power Transfers on Critical Transmission Paths | YV Makarov, D Meng, B Vyakaranam, R Diao, B Palmer, Z Huang
New Robust Time Series Model for Estimation of Power System Inter-area Oscillations | Gurudatha Pai K, John W. Pierre
Substation Local Voltage Controller using Synchrophasors | Mohammad Amelian, Vaithianathan “Mani” Venkatasubramanian, Javier Guerrero, Noah Badayos, Farrokh Abibi-Ashrafi, Backer Abu-Jaradeh, Armando Salazar

Transformational Government: Governance, Organization, and Management
Miriam Lips, Leif Skiftenes Flak, J. Ramon Gil-Garcia

**EG 15** Kauai 4 Thursday, 10:00 - 11:30 am

Issues in the Transition to CIO Role in the Public Sector of Developing Countries | Bashir Hussain, Tim Turner, Ahmed Imran
**A Stabilization Model for E-Government Innovation | Taehyon Choi, Deok-Soo Kim, Jungyun Ha
Modes of Collaboration for Realizing E-government Benefits | Carl-Mikael Lönn, Gustaf Juell-Skielse, Tero Päivärinta
Resilient Networks  
Minitrack Chair: Jeff Dagle  
Session Chair: Ian Dobson  
(Complex Infrastructure Interdependencies)

ES 2  Kuhio Theater  Wednesday, 10:00 - 11:30 am

**Convex Optimization for Joint Expansion Planning of Natural Gas and Power Systems | Conrado Borraz Sanchez, Russell Bent, Scott Backhaus, Seth Blumsack, Hassan Hijazi, Pascal van Hentenryck
Assessing Risk of Gas Shortage in Coupled Gas-Electricity Infrastructures | Anatoly Zlotnik, Michael Chertkov, Konstantin Turitsyn
Electric Energy Storage Arbitrage in Electric Power Markets with Wind Uncertainty | Chao Li, Kory W. Hedman, Muhong Zhang

Economics, Markets, and Policy  
Minitrack Chair: Shmuel Oren  
Session Chair: Le Xie  
(Requirements and Markets for Flexibility)

ES 3  Kuhio Theater  Wednesday, 2:00 - 3:30 pm

Managing System Ramp Flexibility by Utilizing Price-Responsive Demand: An Empirical Assessment | Anupam A. Thatte, Yuanyuan Li, Le Xie
On the Death and Possible Rebirth of Energy-Only Markets | Tim Mount, Wooyoung Jeon
Financial Transmission Rights in Changing Power Networks | Aleksandr M. Rudkevich, Michael C. Caramanis, Evgeniy A. Goldis, Xiaoguang Li, Pablo A. Ruiz, Richard D. Tabors
Generation Ramping Valuation in Day-Ahead Electricity Markets | Masood Parvania, Anna Scaglione

Integrating Distributed or Renewable Generation  
Minitrack Chair: Judy Cardell  
Session Chair: Charlie Smith  
(Renewables and Distributed Energy Resources)

ES 4  Kuhio Theater  Wednesday, 4:00 - 5:30 pm

Flexible Wind Dispatch, System Reliability and EPA’s Clean Power Plan | Judith Cardell, Lindsay Anderson
Optimal Power Flow with Random Wind Resources | Yuquan Shan, George Kesidis
A Comparison of Robust and Probabilistic Reliability for Systems with Renewables and Responsive Demand | Jialin Liu, Maria Gabriela Martinez, Bowen Li, Johanna Mathieu, Lindsay Anderson
**An Integrated Agent-Based and Production Cost Modeling Framework for Renewable Energy Studies | Giulia Gallo

Economics, Markets, and Policy  
Minitrack Chair: Shmuel Oren  
Session Chair: Richard D. Tabors  
(Frontiers in Power Systems Optimization)

ES 5  Kuhio Theater  Thursday, 8:00 - 9:30 am

A New Outage Coordination: SMaRTS Model | Gokturk Poyrazoglu, HyungSeon Oh
What is the Benefit of Including Uncertainty in Transmission Planning? A WECC Case Study | Benjamin F. Hobbs, Qingyu Xu, Saamrat Kasina, Sang Woo Park, Jasmine Ouyang, Jonathan L. Ho, Pearl E. Donohoo-Vallett
**The Engineering, Economic and Environmental Electricity Simulation Tool (E4ST): Description and an Illustration of its Capability and Use as a Planning/Policy Analysis Tool | Biao Mao, Daniel Shawhan, Ray Zimmerman, Jubo Yan, Yujia Zhu, William Schulze, Richard Schuler, Daniel Tylavsky
Integrating Distributed or Renewable Generation
Minitrack Chair: Judy Cardell
Session Chair: Lindsay Anderson
(Demand Response, Microgrids, and Storage)

Monitoring, Control and Protection
Minitrack Chair: Joe Eto
Session Chair: David P. Chassin
(Distributed Decision and Control)

ES 6  
Kuhio Theater  
Thursday, 10:00 - 11:30 am

Advanced Energy Storage Management in Distribution Network | Guodong Liu
Electric Vehicle Participation in Transactive Power Systems Using Real-time Retail Prices | Sahand Behboodi, David P. Chassin, Curran Crawford, Ned Djilali
Residential Energy Efficiency and Electric Demand Response | Ward Jewell
On Impact of Randomly Distributed PV Systems on Distribution Networks | Insu Kim, Miroslav Begovic

Resilient Networks
Minitrack Chair: Jeff Dagle
Session Chair: Bill Rosehart
(Big Data Analytics for Actionable Information in Power Systems)

ES 7  
Kuhio Theater  
Thursday, 2:00 - 3:30 pm

The Impact of Distributed Energy Resources on Incumbent Utilities: A Case Study of Long Island, New York | Richard D. Tabors, Hua He, Michael Birk, Tabors Caramanis Rudkevich
Big Data Analytics for Modelling the Impact of Wind Power Generation on Competitive Electricity Market Prices | Payam Zamani-Dehkordi, Logan Rakai, Hamidreza Zareipour, William Rosehart
Quantifying Uncertainties of Security and QoS for Design of Power Grid Communications Systems | Yujue Wang, Carl Hauser, Yiming Wu
Jamming aided Generalized Data Attacks: Exposing Vulnerabilities in Secure Estimation | Deepjyoti Deka, Ross Baldick, Sriram Vishwanath

Global Health IT Strategies
Joseph Tan, Nilmini Wickramasinghe, Michael Dohan

HC 1  
Kauai 6  
Friday, 3:00 - 4:30 pm

**Value - Mapping IT Platform Options in Global Health: A Multi-Year Case of Code Rot versus the Event-Driven Outbreak Economy | Dominic Thomas, Renee Subramanian
Vis-Health: Exploratory Analysis and Visualization of Dengue Cases in Brazil | Naira Kaieski, Luiz Paulo Luna de Oliveira, Marta Becker Villamil
The Role of Social Networking in Healthcare | Nicole O’Brien, Joseph Tan, Yufei Yuan
Health Behavior Change Support Systems
Harri Oinas-Kukkonen, Khin Tan Win, Samir Chatterjee

HC 2  Kauai 6  Wednesday, 10:00 - 11:30 am

**Usage of Facebook- and Anonymous Forum–Based Peer Support Groups Online and Their Influence on Perceived Social Support Types in Weight Loss | Heini Taiminen, Kimmo Taiminen

Socially Influencing Technologies for Health Promotion: Translating Social Media Analytics into Consumer-facing Health Solutions | Sahiti Myneni, Sriram Iyengar


**IT Adoption, Diffusion and Evaluation in Healthcare
Ton Spil, Carla Wiggins, Leigh Cellucci, Arnold Kamis

HC 3  Kauai 6  Friday, 8:00 - 9:30 am

Implementation and Adoption of an Electronic Information System for Vaccine Inventory Management | Marie-Pierre Gagnon, Amélie Lampron, Ronald Buyl


**IT-based Revenue Cycle Management: An Action Research into Relational Coordination | Rajendra Singh, Vitali Mindel, Lars Mathiassen

A Closer Look at the Social Influence Construct in the UTAUT Model: An Institutional Theory Based Approach to Investigate Health IT Adoption Patterns of the Elderly | Karoly Bozan, Kevin Parker, Bill Davey

HC 4  Kauai 6  Friday, 10:00 -11:30 am

Internet Usage, Physician Performances and Patient’s Trust in Physician during Diagnoses: Investigating Both Pre-use and Not-use Internet Groups | Tian Lu, Hong Chen, Yunjie Xu, Chenghong Zhang

Lifetime Electronic Health Records as an Enabler for Integrated Care | Peggy Richter, Kai Gand, Werner Esswein

Improving Electronic Health Record Downtime Contingency Plans with Discrete-Event Simulation | Ethan Larsen, Christiane Haubitiz, Christian Wernz, Raj Ratwani

An Exploration of the Impact of the EMR Capabilities on Hospital Quality Measures in U.S. | Yousra Harb, Surendra Sarnikar, Cherie Noteboom

HC 5  Kauai 6  Friday, 1:00 - 2:30 pm

Adoption of Social Media and the Quality of Life of Older Adults | Yun Yang, Yufei Yuan, Norm Archer, Ellen Ryan

A Study of Privacy and Security Concerns on Doctors’ and Nurses’ Behavioral Intentions to Use RFID in Hospitals | Thomas G. Winston, Souren Paul, Lakshmi Iyer

Acceptance and Organizational Aspects of Oral tele-Consultation: A French Study | Roland Petcu, Roxana Ologeanu-Taddei, Isabelle Bourdon, Chris Kimble, Nicolas Giraudieu

Health Literacy: Exploring Health Knowledge Transfer in Online Healthcare Communities | Yanyan Shang, Jun Liu

**IT Architectures and Implementations in Healthcare Environments
Radmila Juric, Jasna Kuljis, Suzanne Miller

HC 6  Kauai 6  Thursday, 2:00 - 3:30 pm

Expanding the Coverage of Ambient Assisted Living Systems | João Bentes, Daniela Trevisan, José Viterbo

An Architecture for Pull-based Public Health Interventions | Robert Steele, Andrew Clarke

Adaptive Dissemination for Mobile Electronic Health Record Applications with Proactive Situational Awareness | Davy Preuveneers, Nayyab Zia Naqvi, Arun Ramakrishnan, Yolande Berbers, Wouter Joosen

Validating Scanned Foot Images and Designing Customized Insoles on the Cloud | Gabor Terstyanszky, Tamas Kiss, Simon Taylor, Anastasia Anagnostou, Miguel Subira, Giuseppe Padula, Enrique De Meer Alonso, Jose Manuel Martin Rapun
HC 7  Kauai 6  Thursday, 4:00 - 5:30 pm

A Business Process Management Approach to Surgical Instrument/Device Reprocessing and Tracking | Jim Ryan, Barbara Doster, Sandra Daily, Carmen Lewis

Decision Support for the Service Needs Assessment Process in Elderly Care | Tanja Kaarna, Jukka Korpela, Kalle Elfvengren, Tarja Viitikko, Merja Tepponen

Semantic Selection of Healthcare Apps | Hamda Almarri Binghubash, Radmila Juric, Bilal Mughal

BPMN4CP Revised - Extending BPMN for Multi-Perspective Modeling of Clinical Pathways | Richard Braun, Hannes Schlieter, Martin Burwitz, Werner Esswein

HC 8  Kauai 6  Thursday, 8:00 - 9:30 am

Digital Knowledge Objects and Digital Knowledge Object Clusters: Unit Holdings in a Learning Health System Knowledge Repository | Allen J. Flynn, Wei Shi, Rocky Fischer, Charles P. Friedman

Institutional Barriers against Innovation Diffusion: From the Perspective of Digital Health Startups | Shi Ying Lim, Edward G. Anderson, Jr.

A Bayesian Network Approach to Classifying Bad Debt in Hospitals | Donghui Shi, Jozef Zurada, Jian Guan

Geographical and Socioeconomic Disparity Analysis – An Empirical Study of Hypertension and Its Comorbidities in China | James Ma, Jiaojiao Wang, Jiaqi Liu, Zhidong Cao

Mobile Applications and Emerging Technologies for Health Management and Wellness
Freimut Bodendorf, Carolin Durst, Nilmini Wickramasinghe

HC 9  Grand Ballroom 7  Wednesday, 8:00 - 9:30 am

**Wearable Health Monitors and Physician-Patient Communication: The Physician’s Perspective | Joanne R. Loos, Elizabeth J. Davidson

Ambient Intelligence Based Context-Aware Assistive System to Improve Independence for People with Autism Spectrum Disorder | Ziyang Tang, Jin Guo, Sheng Miao, Subrata Acharya, Jinjuan Heidi Feng

Designing a Game to Reduce Stress for Congestive Heart-Failure (CHF) Patients | Ala Alluhiad, Miloslava Plachkinova

HC 10  Grand Ballroom 7  Wednesday, 10:00 - 11:30 am

Behavior Change Support for Physical Activity Promotion: A Theoretical View on Mobile Health & Fitness Applications | Andreas Hamper, Jonathan Wendt, Christian Zagel, Freimut Bodendorf

Digital Engagement, Self-management, and Shifting the Locus of Control: A mHealth Program for People with type 2 Diabetes | Sally Burford, Sora Park, Morris Carpenter, Paresh Dawda, John Burns

Effects of Journaling Dietary Intake App on the Health Outcomes of Chronic Kidney Disease Stage 3B-5 | Jei-Fuu Chen, Ling-Ling Wu, Seng-Choo Chou
Technologies for Clinical Decision-Making, Interventions, and Wellness
Janet Brigham, Benjamin Schooley, Rochelle Rosen, Beth Bock

** Development of a Mobile Phone Attachment Scale | Beth Bock, Herpreet Thind, Joseph Fava, Kristen Walaska, Nancy Barnett, Rochelle Rosen, Regina Traficante, Ryan Lantini

Mobile Health Monitoring: A Case Analysis of an App in a Diabetes and Hypertension Clinic | Aniruddha Banerjee, R.A. Ramanujan, Saligrama Agnihothri

How Do Business Analytics and Business Intelligence Contribute to Improve Care Efficiency? | Hoda Moghimi, Stephen Vaughan, Steven McConchie, Nilmini Wickramasinghe

Ingestible Biosensors for Real-Time Medical Adherence Monitoring: MyTMed | Peter R. Chai, Rochelle Rosen, Edward W. Boyer

Technologies for Healthy Aging
Aaron Crandall, Diane Cook, Maureen Schmitter-Edgecombe

** Predictive Analytics Dashboard for Monitoring Patients in Advanced Stages of COPD | Riad Alharbey
Do Facebook Likes Lead to Shares or Sales? Exploring the Empirical Links between Social Media Content, Brand Equity, Purchase Intention, and Engagement | Constantinos K. Coursaris, Wietske van Osch, Brigitte A. Balogh
Characterizing Quantitative Measures of User Engagement on Organizational Facebook Pages | Leora Mauda, Yoram M Kalman
Seller Manipulation of Consumer Reviews under Competition | Ruhai Wu, Chun (Martin) Qiu

**From E-Shopping System Quality to the Consumer’s Intention to Return: A Meta-Analytic Study of the Mediation of Attitude, Usefulness, Enjoyment, and Trust | John Ingham, Jean Cadieux**

Why Consumers Go to Online Grocery: Comparing Vegetables with Grains | Chunghan Kang, Junghoon Moon, Taekyung Kim, Youngchan Choe

Consumer Trust Towards an Online Vendor in High- vs. Low-Context Cultures | Heli Hallikainen, Tommi Laukkanen

Quantifying the Value of Local Showrooms in Consumer Search and Purchase | Jayarajan Samuel, Ying Xie, Zhiqiang (Eric) Zheng

Visual Complexity and Figure-Background Color Contrast of E-commerce Websites: Effects on Consumers’ Emotional Responses | Sheng-Wei Lin, Louis Yi-Shih Lo, Travis K. Huang

User Behavior in Crowdfunding Platforms - Exploratory Evidence from Switzerland | Michael Beier, Kerstin Wagner

A Comparative Study of National Culture and Innovation: Effects of Cultural Dimensions on Traditional Innovation and Online Innovation | Jongwook Kwon, Dan Kim, Chang E. Koh

**Gender and Job Satisfaction of Information Technology Professionals in Poland | Jolanta Kowal, Narcyz Roztocki**

Measuring the Human Factor in Information Security and Privacy | Marc J. Dupuis, Robert E. Crossler, Barbara Endicott-Popovskyy

Validating Common Characteristics of Malicious Insiders: Proof of Concept Study | Nan (Peter) Liang, David Biros

CPasswords: Leveraging Episodic Memory and Human-Centered Design for Better Authentication | L. Jean Camp, Jacob Abbott, Siyu Chen

Consumers’ Expectations of Fair Data Collection and Usage – A Mixed Method Analysis | Antje Niemann, Manfred Schwaiger

Privacy and Identity Theft Recovery Planning: An Onion Skin Model | Tawfiq Alashoor, Richard Baskerville, Ruilin Zhu

**Investigating Users’ Reaction to Fine-Grained Data Requests: A Market Experiment | Nicole Eling, Siegfried Rasthofer, Max Kolhagen, Eric Bodden, Peter Buxmann**
Real or Spiel? A Decision Tree Approach for Automated Detection of Deceptive Language-Action Cues | Shuyuan Mary Ho, Jeffrey T. Hancock, Cheryl Booth, Xiuwen Liu, Muye Liu, Shashank S. Timmarajus, Mike Burmester

Measuring Source Credibility of Social Engineering Attackers on Facebook | Abdullah Algarni, Yue Xu, Taizan Chan

An Exploratory Study on Behavioral and Emotional Coping with IT-Enabled Government Surveillance | Hanieh Moshki, Henri Barki

**Mining, Analyzing, and Visualizing Web Content and Usage**

Dave King

EventPanorama: A Framework for Event Detection and Visualization from Online News | Chen Zhang, Hao Wang, Wei Wang, Cuixia Ma, Jingjing Li, Yibo Wang, Fanjiang Xu

**Scalable Knowledge Extraction and Visualization for Web Intelligence** | Arno Scharl, Albert Weichselbraun, Max Goebel, Walter Rafelsberger, Ruslan Kamolov

Developer Behavior and Sentiment from Data Mining Open Source Repositories | William N. Robinson, Tianjie Deng, Zirun Qi

Taking the Measure of National Bandwidths: Evolving Patterns of the International Digital Divide for 1986 – 2013 | Martin Hilbert

**Online Games and Game-Like Systems**

Kafui Monu, Paul Ralph, Xi Zhang

“It Was More than Just the Game, It Was the Community”: Social Affordances in Online Games | Nicole Crenshaw, Bonnie Nardi

Understanding Perceived Enjoyment in Mobile Game Context | Jani Merikivi, Duyen Nguyen, Virpi Kristiina Tuunainen

**Role of Internal Health Belief, Catharsis Seeking, and Self-efficacy in Game Players’ Aggression** | Hye Rim Lee, Eui Jun Jeong, Joo Woo Kim

A Study of Digital Game Addiction from Aggression, Loneliness and Depression Perspectives | Eui Jun Jeong, Dan J. Kim, Dong Min Lee, Hye Rim Lee

**Social Shopping: The Good and not so Good**

Gabrielle Peko, Shahper Vodanovich, David Sundaram

**Dynamic Organizational Learning with IoT and Retail Social Network Data** | Wei Zhou, Frederique Alexandre-Bailly, Selwyn Piramuthu

Using Social Media to Manage Customer Complaints: A Preliminary Study | Hua (Jonathan) Ye, Arvind Tripathi

Inter-generational Comparison of Social Media Use: Investigating the Online Behavior of Different Generational Cohorts | Kaja J. Fietkiewicz, Elmar Lins, Katsiaryna S. Baran, Wolfgang G. Stock

A Study of the Effects of Social Factors and Innovation Characteristics on Search Effort and Uncertainty in Mobile App Adoption | Fengkun Liu, Alan A. Brandyberry, Greta Polites, Mary Hogue, Tuo Wang
The Diffusions, Impacts, Adoption and Usage of ICTs upon Society
Jyoti Choudrie, Sherah Kurnia, Shahper Vodanovich

IN 12 Garden Isle 1 Thursday, 8:00 - 9:30 am

The Adoption of IBM's Spoken Web in Information Poor Communities: A Pilot Study with Farmers in Gujarat, India | InduShobha Chengalur-Smith, Devendra D. Potnis, Gaurav Mishra

Unfolding the Types of Organizational Inertia in Information Systems Adoption | Tapani Rinta-Kahila, Esko Penttinen, Anssi Nevalainen


Theories of the Digital Divide: Critical Comparison | James Pick, Avijit Sarkar

IN 13 Garden Isle 1 Thursday, 10:00 - 11:30 am


Understanding the Pain: Examining Individuals' Online Reputation Management Behaviour and its Obstacles - A Grounded Theory | Shuzhe Yang

Gender Differences in Online Dating: What Do We Know So Far? A Systematic Literature Review | Olga Abramova, Annika Baumann, Hanna Krasnova, Peter Buxmann

IN 14 Garden Isle 1 Friday, 8:00 - 9:30 am

Design Principles for Industrie 4.0 Scenarios | Mario Hermann, Tobias Pentek, Boris Otto

**Augmented Reality Apparel: An Appraisal of Consumer Knowledge, Attitude and Behavioral Intentions | Heather F. Ross, Tina Harrison

Discussion with Internet of Everything Experts: Blaize Horner Reich, David Hannah, Hope Schau, Leyland Pitt and Jonathan Linton

Transformation Towards Cloud Computing
Mohamed Makhlouf

IN 15 Kauai 5 Thursday, 10:00 - 11:30 am

**Determinants of the Decision to Transform Towards Cloud: An Exploratory Analysis of 225 CISCO Case Studies | Mohamed Makhlouf, Oihab Allal-Cherif, Nathalie Dumas

What Drives Users to Use CRM in a Public Cloud Environment? – Insights from European Experts | Ralf-Christian Harrtng, Michael Möhring, Rainer Schmidt, Christopher Reichstein, Barbara Keller

Digital Business Ecosystem Transformation - Towards Cloud Integration | Kari Korpela, Karri Mikkonen, Jukka Hallikas, Mikko Pynnönen

To Reach The Clouds: Application of Topic Models to the Meta-review on Cloud Computing Literature | Bikesh Raj Upreti, Aleksandre Asatiani, Pekka Malo

IN 16 Kauai 5 Thursday, 2:00 - 3:30 pm

Transition to the Cloud: A Vendor Perspective | Jonas Hedman, Xiao Xiao


Cloud Supply Chain Resilience Model: Development and Validation | Andrea Herrera, Lech Janczewski

The Internet of Everything: Connecting People, Things, and Data
Jan Kietzmann, Karen Robson
**Knowledge Innovation and Entrepreneurial Systems Track (KS)**

**Confidentiality, Integrity, and Availability of Knowledge, Innovation, and Entrepreneurial Systems**
Alexandra Durcikova, Murray Jennex

**KS 1**
Garden Isle 1  Thursday, 4:00 - 5:30 pm

Information Security Capacity Building in Community-Based Organizations: Examining the Effects of Knowledge Transfer | Janine L. Spears, Tonia San Nicolas-Rocca

The Revival of Ancient Information Security Models, Insight in Risks and Selection of Measures | Stef Schinagl, Ronald Paans, Keith Schoon

Knowledge Sharing and Knowledge Security in Finnish Companies | Ilona Ilvonen, Aki Alanne, Nina Helander, Hannele Väyrynen

Protecting Knowledge in the Financial Sector: An Analysis of Knowledge Risks Arising from Social Media | Christina Sarigianni, Stefan Thalmann, Markus Manhart

**Designing and Deploying Advanced Knowledge Systems**
Stefan Smolnik, Timo Käkölä

**KS 2**
Kauai 3  Wednesday, 10:00 - 11:30 am

Designing a Personal Information Transaction Object | Ross Farrelly, Eng Chew

**A Knowledge Perspective on Big Data by Joining Enterprise Modeling and Data Analyses** | Hans-Georg Fill, Florian Johannsen

Use Cases as a Means to Support the Appropriation of Enterprise Social Software | Christian Herzog, Alexander Richter

**Innovation Uncertainties and Socio-Political Legitimization**
Vernon Bachor, Jeremy Hall

**KS 3**
Kauai 3  Thursday, 4:00 - 5:30 pm

Almost an MNC: Bitcoin Entrepreneurs’ use of Collective Resources and Decoupling to Build Legitimacy | Claire Ingram, Marcel Morisse

Militarization as a Socio-Political Context for Entrepreneurial Innovation | Todd M. Inouye

**Knowledge Economics**
Carsten Brockmann, Narycz Roztocki

**KS 4**
Kauai 3  Thursday, 10:00 - 11:30 am

Fostering GCC’s Knowledge Economy through ICT: Research in Progress | Kamla Ali Al-Busaidi

**Mobbing and Burnout in Emerging Knowledge Economies: An Exploratory Study in Poland** | Jolanta Kowal, Adam Gurba

Towards Mobile Modeling of Knowledge and Business Processes | René Peinl, Eldar Sultanow, Carsten Brockmann

**Knowledge Flows, Transfer, Sharing and Exchange**
K.D. Joshi, Lynne Cooper, Nathan Johnson

**KS 5**
Kauai 3  Wednesday, 8:00 - 9:30 am

Measuring the Time Delay between Scientific Research and Patent Technology Based on the Citation Distribution Model | Guijie Zhang, Yuqiang Feng, Guang Yu, Luning Liu, Zhen Shao, Jianben Wu

Outbound Open Innovation: A Systematic Review | Larissa Avelino Zuppo, Priscila Luiz Rosa, Paulo Henrique de Souza Bermejo, André Luiz Zambalde

An Approach to Knowledge Acquisition Based on Verbal Semantics | Dildre G. Vasques, Antonio C. Zambon, Gisele B. Baioco, Paulo S. Martins

**Managerial Implications on Viewing Knowledge as Constructions** | W. David Holford
Knowledge Management Value, Success and Performance Measurements
Murray Jennex, Stefan Smolnik, Dave Croasdell

KS 6   Kauai 3   Wednesday, 4:00 - 5:30 pm

**Enterprise Social Networks from a Manager’s Perspective | Alexander Richter, Corinna Hetmank, Julia Klier, Mathias Klier, Maria Müller
Providing Contextual Insights on the Organizational Usage of Public Social Network Sites – The Case of Facebook | Björn Kruse, Ulrike Baumöl
The DIKW Hierarchy and Management Decision-Making | Ali Intezari, David J. Pauleen, Nazim Taskin
The Search for Knowledge Management Success | Murray E. Jennex, Stefan Smolnik, David Croasdell

Knowledge Society / Knowledge Sharing and Utilization in International/Global Setting
Dave Croasdell, Nilmini Wickramasinghe, Minna Rollins, Mika Gabrielsson

KS 7   Kauai 3   Thursday, 8:00 - 9:30 am

The Salesperson’s Use of Global Customer Relationship Management Systems | Minna Rollins, Mika Gabrielsson
Is it an Antecedent? Is it an Outcome? No, it’s Culture! Understanding the Relationship between Cultural Values and the Use of Information Systems Fostering Collaboration | Sven Dittes, Stefan Smolnik

Managing Knowledge for Innovation and Agility
Suzanne Zyngier, Daniel Samson, Marianne Gloet

KS 8   Kauai 3   Friday, 8:00 - 9:30 am

Designing an Idea Screening Framework for Employee-driven Innovation | Raffaele Fabio Ciriello, Alexander Richter, Gerhard Schwabe
Competence Management as a Dynamic Capability: A Strategic Enterprise System for a Knowledge-Intensive Project Organization | Erkka Niemi, Sami Laine
Idea Generation by Employees and External Participants in Innovation Competitions | Stefan Stieglitz, Simon Hassannia

KS 9   Kauai 3   Friday, 10:00 - 11:30 am

The Workarounds Process as a Source of Knowledge Creation and Management | Patrick Boudreau, Dragos Vieru, Gilbert Paquette, Michel Heon
Knowledge and Innovation Management: Developing Dynamic Capabilities to Capture Value from Innovation | Marianne Gloet, Danny Samson
Clustering the Results of Brainstorm Sessions: Applying Word Similarity Techniques to Cluster Dutch Nouns | Chintan Amrit, Jeroen Hek

Organizational Learning
Minitrack Chair: Julee Hafner

KS 10  Kauai 3  Thursday, 2:00 - 3:30 pm

Towards a Unified Theory of Knowledge Management (KM) | Philip William Sisson, Julie JCH Ryan
An Enhanced Theory of Learning Including Learning from the Future | Alexander Kaiser
Using Knowledge Management to Assist in Identifying Human Sex Trafficking | Marisa Hultgren, Murray E. Jennex, John Persano, Cezar Ornatowski

Needs to Know: Validating User Needs for a Proposed FBI Academy Knowledge Management System | J. Richard Kiper

Does Incomplete Unlearning Impact Medical Errors? | Julee Hafner

**The Organizational Use of IT-Mediated Crowds**

Jan Kietzmann, John Prpic

**Gamification in Crowdsourcing: A Review** | Benedikt Morschheuser, Juho Hamari, Jonna Koivisto

Crowd Science: Measurements, Models, and Methods | John Prpić, Prashant Shukla

Choosing the Right Crowd: An Iterative Process for Crowd Specification in Crowdsourcing Initiatives | Eoin Cullina, Kieran Conboy, Lorraine Morgan

Discussion with Crowdsourcing Experts: Ian McCarthy, Jeremy de Beer and Leyland Pitt

**Tools and Software for Knowledge Management**

Alexandra Kees, Karlheinz Kautz

Ease of Attribution, Ease of Licensing, and Integration of Creative Works | Elahe Javadi, Jasmeet Sasan, Beth Ladd

**Automated Taxonomy Extraction from Semantic Business Process Models** | Sergio de Cesare, Damir Juric, Mark Lycett

An Interface for Assisted Curation of Knowledge Bases from Unstructured Text | Jeremy Wright, Gabriel Murray, Ben Hachey
Using Skewness and Kurtosis Coefficients of Industry Samples of IT Managerial Control Ratios for Analyzing Competitive Dynamics in Relation to IT Spending | Vladyslav Krotov
Exploring Innovation Ecosystems as Networks: Four European Cases | Jukka Huhtamäki, Neil Rubens
A Study of Financial Contagion in Interbank System | Xian Cheng, Stephen Shaoyi Liao, Haichuan Zhao, Xinbo Sun, Zhongsheng Hua, Yujing Xu

Crowdfunding in the Development of Social Media Fanbase – Case Study of Two Competing Ecosystems | Jari Jussila, Karan Menon, Raghava Rao Mukkamala, Lester Allan Lasrado, Abid Hussain, Ravi Vatrapu, Hannu Kärkkäinen, Jukka Huhtamäki
Insights from Social Network Analysis — Case Board Interlocks in Finnish Game Industry | Arho Suominen, Nina Rilla, Juha Oksanen, Kaisa Still

**Business and Enterprise Architecture: Processes, Approaches and Challenges**
Frank Armour, Stephen Kaisler

**Enterprise Architecture Analysis and Network Thinking: A Literature Review** | Alixandre Santana, Kai Fischbach, Hermano Moura
Organizational Subcultures and Enterprise Architecture Effectiveness: Findings from a Case Study at a European Airport Company | Hella Faller, Sybren de Kinderen, Christina Constantinidis
Identifying Misalignment of Goal and Strategies across Organizational Units by Interpretive Structural Modeling | Yohei Aoki, Takanobu Kobori, Hironori Washizaki, Yoshiaki Fukazawa

An Executable Model Driven Framework for Enterprise Architecture Application to the Smart Grids Context | Rachida Seghiri, Frédéric Boulanger, Claire Lecocq, Vincent Godefroy
An Application of Semantic Techniques to the Analysis of Enterprise Architecture Models | Gonçalo Antunes, Artur Caetano, José Borbinha

**Digital Innovation**
Nicholas Berente, Kalle Lyytinen, Youngjin Yoo

**Innovating with Digital Action Repertoires at Amnesty International: Exploring Role Ambiguity** | Lisen Selander, Sirkka Jarvenpaa
Putting Phronesis to Work in Digital Innovation | Lena Hylving, Dina Koutsikouri
Algorithmic Agency in Information Systems: Research Opportunities for Data Analytics of Digital Traces | Jonas Valbjørn Andersen, Aron Lindberg, Rikard Lindgren, Lisen Selander

Corporate Crowdfunding: Does Being Part of a University Affect a Platform’s Operations? | Claire Ingram, Emmanuelle Vaast, Robin Teigland
Reinventing the Platform Core Through Acquisition: A Case Study | Gustav Toppenberg, Stefan Henningsson, Ben Eaton
Strategy Blindness as Disciplined IT-use Practice: Looking Past the ‘Unintended and Unexpected’ through the Practice Lens | Viktor Arvidsson
Emerging Technologies and Innovations for Development  
Sajda Qureshi, Gerald Grant, Anthony Ming

OS 9  Boardroom  Wednesday, 10:00 - 11:30 am

Emerging Technology Use in Very Small Island States: A Tenuous Relationship between Average Information and Communication Technology (ICT) Usage and Per Capita Gross Domestic Product (GDP) Growth | Sajda Qureshi, Lotfollah Najjar

**Is Consensus a Viable Concept to Justify Use of Online Collaborative Networks in Multi-Stakeholder Governance? | William Tibben, Robert B. K. Brown, Ghassan Beydoun, Reza Zamani

Panel: Emerging Technologies for Development: Challenges and Opportunities

Enterprise System Integration: Issues and Answers  
Marinos Themistocleous, Gail Corbitt, Paulo Rupino de Cunha

OS 10  Kuhio Theater  Friday, 3:00 - 4:30 pm

A Comparison between Organizational Stakeholders’ and External Consultants’ Perceptions on CSFs Affecting ERP Life Cycle Phases | Musleh Alsulami, Helana Scheepers, Md. Mahbubur Rahim

Integration Obstacles during ERP Development | Negin Banaei Anjehromi, Tommi Kähkönen, Aki Alanne, Kari Smolander

The Fragmentation of Theoretical Contributions in ERP Research: An Exploratory Study | Saïd Assar, Redouane El Amrani

**Enterprise Systems and Innovation - An Empirical Investigation | Niki Kyriakou, Euripides Loukis, Spyros Arvanitis

Human Capital and Technology in a Global Marketplace  
Cynthia Riemenschneider, Deborah J. Armstrong

OS 11  Garden Isle 1  Thursday, 2:00 - 3:30 pm

Being Useful: How Information Systems Professionals Influence the Use of Information Systems in Enterprises | Hadi Karimikia, Harminder Singh, Karin Olesen

How Do Black Men Succeed in IT Careers? The Effects of Capital | K.D. Joshi, Lynette Kvasny, P. Unnikrishnan, Eileen Trauth

Impacts of Information Technologies on Consumer Activities and on Business Operations  
Avi Seidmann, Yabling Jiang, Jie Zhang

OS 12  Kauai 5  Wednesday, 10:00 - 11:30 pm

**Experience Me! The Impact of Content Sampling Strategies on the Marketing of Digital Entertainment Goods | Ai Phuong Hoang, Robert J. Kauffman

Understanding the Sharing Economy: Drivers and Impediments for Participation in Peer-to-Peer Rental | Florian Hawlitschek, Timm Teubner, Henner Gimpel

Presentation Styles on User Perceived Usefulness in Opinion Summarization | Xiaojun Yuan, Ning Sa, Grace Begany, Huahai Yang

OS 13  Kauai 5  Wednesday, 2:00 - 3:30 pm

Improving Open Access Policy for Scheduling Outpatient Appointments | Balaraman Rajan, Abraham Seidmann

Disclosing the Role of IT Suppliers as Digital Innovation Enablers for SMEs: A Strategy Analysis of the European IT Sales Channel | Antonio Ghezzi, Raffaello Balocco

Influential Aspects of the Smart City | Cristina Marinovici, Harold Kirkham, Steve Widergren
**The Impact of ISO 27001 Certification on Firm Performance**  
Carol Hsu, Tawei Wang, Ang Lu

Jeffry Babb, Mark Keith, Paul Steinbart

*Perverse Effects in Defense of Computer Systems: When More is Less*  
Josephine Wolff

*Why Companies Change Privacy Policies: A Principal-Agent Perspective*  
Wallace Chipidza, Dorothy Leidner, Debra Burleson

*Sweet Idleness, but Why? How Cognitive Factors and Personality Traits Affect Privacy-Protective Behavior*  
Christian Matt, Philipp Peckelsen

*A Secure Business Process Modelling For Better Alignment between Business and IT*  
Youseef Alotaibi

*Coercive, Normative, and Mimetic Influences on the Assimilation of BCM in Outsourcing Relationships*  
Simon Erb, Gerhard F. Knolmayer

**Information Security and Privacy**  
Tung Bui, Eric Clemons, Tawei Wang

**IT Governance and its Mechanisms**  
Wim Van Grembergen, Steven De Haes

*How Business Strategy and Changes to Business Strategy Impact the Role and the Tasks of CIOs: An Evolutionary Model*  
Tomi Dahlberg, Päivi Hokkanen, Mike Newman

*CIO Leadership Mosaic - Results from a Qualitative Survey in the Silicon Valley and San Francisco Bay Area*  
Karsten Zimmermann, Jurate Petrikina, Nils Schröder

*Individual IT Roles in Business-IT Alignment and IT Governance*  
Heinz-Theo Wagner, J. Meshtaf

*Dotting the I and Crossing (out) the T in IT Governance: New Challenges for Information Governance*  
Hans Borgman, Hauke Heier, Bouchaib Bahli, Thomas Boekamp

**IT and Project Management**  
Joseph Weiss, Sue Newell, Jacky Swan

**Success Lies in the Eye of the Beholder: The Mismatch Between Perceived and Real IT Project Management Performance**  
Fabiano G. Neves, Hans Borgman, Hauke Heier

*Towards an Integrative, Multilevel Theory for Managing the Direct and Indirect Impacts of IT Project Success Factors*  
Tomi Dahlberg, Hannu Kivijärvi

*Shaping of Innovative IS Projects through Change Requests: Scoping Factors and Project Outcomes*  
Joseph J. Nehme, Shirish C. Srivastava

*Does Steering Committee Information Processing Capacity Influence Project Success in Enterprise-Wide System - A Field Study*  
Kris Murphy, Kalle Lyytinen, Toni Somers

*Beyond the Border: A Comparative Literature Review on Communication Practices for Agile Global Outsourced Software Development Projects*  
Tim Dreesen, Robert Linden, Caroline Meures, Nikolaus Schmidt, Christoph Rosenkranz

*The Evolution of an Enterprise System Implementation Methodology by Adaptation through Reflexivity*  
Daniela Mihaiescu, Marius Mihaiescu, Sven Carlsson
Open Source Application Software
Alexandra Kees, Taizan Chan, Michael Adams

OS 20 Kauai 5 Wednesday, 8:00 - 9:30 am

Attributes of Open Source Software Requirements - The Effect of the External Environment and Internal Social Structure | Deepa Gopal, Aron Lindberg, Kalle Lyytinen

**Open-Source Development Tools for Domain-Specific Modeling: Results from a Systematic Literature Review | Bernhard Hoisl, Stefan Sobernig

Business Applicability of Open Source Customer Relationship Management Systems | Dominic Raimon Markowski, Alexandra Kees

Organizational Issues of Business Intelligence, Business Analytics and Big Data
Olivera R. Marjanovic, Thilini Ariyachandra, Barbara Dinter

OS 21 Grand Ballroom 4 Friday, 8:00 - 9:30 am

Big Data – A Theory Model | Marco Pospiech, Carsten Felden

Towards an Integrative Big Data Analysis Framework for Data-driven Risk Management in Industry 4.0 | Tim Niesen, Constantino Houy, Peter Fettke, Peter Loos

**When are Real-Time Feedback Loops Most Valuable? New Insights from Bandit Simulations of Decision Making in Turbulent Environments | Joseph W. Clark

OS 22 Grand Ballroom 4 Friday, 10:00 - 11:30 am

The Impact of Business Intelligence on Corporate Performance Management | Karin Hartl, Olaf Jacob, Adheesh Budree, Louis Fourie

Empowering Business Users to Explore Visual Data Through Boundary Objects and Storytelling | Olivera Marjanovic

OS 23 Grand Ballroom 4 Friday, 1:00 - 2:30 pm

Towards a Conceptualization of Data Analytics Capabilities | Giorgi Shuradze, Heinz-Theo Wagner

Business Intelligence Capabilities and Effectiveness: An Integrative Model | Thiagarajan Ramakrishnan, Jiban Khuntia, Abhishek Kathuria, Terence Saldanha

** Best Paper Nomination

Practice-based IS Research
Dorothy Leidner, Michael Milovich, Ester Gonzalez

OS 24 Kauai 5 Thursday, 8:00 - 9:30 am

What Does a Chief Digital Officer Do? Managerial Tasks and Roles of a New C-level Position in the Context of Digital Transformation | Anna Horlacher, Thomas Hess

How to Achieve Sustainable Business IT Alignment – Designing a Circular Organizational Structure at SAAB | Jens Ohlsson, Shengnan Han, Mats Hultin, Björn Rosengren

Amazon in the Air: Innovating with Big Data at Lufthansa | Hong-Mei Chen, Roland Schütz, Rick Kazman, Florian Matthes

Examining the Role of Social Media for Social Development: Lessons from Malaysian Soup Kitchens | Shri Gurumurty, Shan L. Pan, Shamshul Bahri, Ali Fauzi Ahmad Khan

Social-Technical Issues in Organizational Information Technologies
Michael Knight, Dawn Medlin, Dragos Vieru

OS 25 Kauai 2 Thursday, 8:00 - 9:30 am

Measuring E-Mail Induced Information Overload from a Capacity Perspective: A Research Model and Pilot Test | Nikolai Sobotta, Erik Nessling

Toward an Ontology of Workarounds: A Literature Review on Existing Concepts | Nina Röder, Manuel Wiesche, Michael Schermann, Helmut Krcmar

Establishing ICT Governance for Regional Information Infrastructures in Healthcare | Gro-Hilde Ulriksen, Rune Pedersen, Gunnar Ellingsen
**The Inter-organizational Dynamics of a Platform Ecosystem: Exploring Stakeholder Boundaries | Ted Saarikko, Ulrika H. Westergren, Tomas Blomquist**

The Influence of Organizational Culture on IT Governance Performance: Case of The IT Department in a Large Swedish Company | Parisa Aasi, Lazar Rusu, Shengnan Han

**Society, Information, Technology, and Economics**
Robert Kauffman, Eric Clemons, Rajiv Dewan, Thomas Weber

Competitive Impacts of Software Patents in the IT Industry | Sunghun Chung, Kunsoo Han, Animesh Animesh, Alain Pinsonneault

Online Trust: An International Study of Subjects’ Willingness to Shop at Online Merchants, Including The Effects of Promises and of Third Party Guarantees | Eric K. Clemons, Josh Wilson, Christian Matt, Thomas Hess, Ren Fei, Fujie Jin

Versioning of Video Games: Go Vertical in a Horizontal Market? | Debabrata Dey, Atanu Lahiri

“Pay as you Go” or “All You can Eat”? Pricing Methods for Computing and Information Services | Hemant K. Bhargava, Manish Gnagwar

Optimal Retail in a Sharing Economy | Thomas A. Weber

**Strategic Network Formation in a Location-Based Social Network: A Topic Modeling Approach | Gene Moo Lee, Liangfei Qiu, Andrew B. Whinston**

Connectivity Is Ubiquitous, but Is it Beneficial? A Numerical Approach to Assess Individuals’ Valuations of Smart Home Systems | Matthias Berger, Christian Matt, Thomas Hess


Analyzing the Concept of Affordances in Information Systems | Karen Stendal, Devinder Thapa, Arto Lanamäki

Developing a Shared Taxonomy of Workaround Behaviors for the Information Systems Field | Eruani Zainuddin, Sandy Staples


Crafting Theory to Satisfy the Requirements of Systems Science | Allen S. Lee, Dionysios S. Demetis

Truth or Consequences: Theory for Explanation or Intervention? A Debate
Moderators: Dirk S. Hovorka, Kai Larsen | Panelists: Elizabeth Davidson, Alan Dennis, Dorothy Leidner, Allen Lee

Understanding Privacy-Control Arrangements Based on a Theory of Interactive Computation in B2C Service Models | Patricia Morizio

Effects of Information Technology on Team Innovation and Inter-team Coordination: An Exploratory Investigation of Process Ambidexterity | Chanhee Kwak, Junyeong Lee, Heeseok Lee

Examining the Factors Affecting Corporate Image from Social Networking Fan Page Usage Using the Elaboration Likelihood Model | Soo Il Shin, Dianne J. Hall, Jiahe Song, Kang Bok Lee, Teresa Lang
**Best Paper Nomination**

ST 1
Grand Ballroom 4
Wednesday, 8:00 - 9:30 am

Adapting Agile in a Globally Distributed Software Development
| Rajeev Kumar Gupta, Prabhulinga ManikReddy

Using Scrum in Outsourced Government Projects: An Action Research
| Thatiany L. de Sousa, Elaine Venson, Rejane M. da C. Figueiredo, Ricardo A. Kosloski, Luiz C. M. Ribeiro Júnior

Transition of Software Maintenance Teams from Scrum to Kanban
| Muhammad Ovais Ahmad, Pasi Kuvaja, Markku Oivo, Jouni Markkula

ST 2
Grand Ballroom 4
Wednesday, 10:00 - 11:30 am

Towards DevOps in the Embedded Systems Domain: Why is It so Hard?
| Lucy Ellen Lwakatare, Teemu Karvonen, Tanja Sauvola, Pasi Kuvaja, Helena Holmström Olsson, Jan Bosch, Markku Oivo

Kaizen Cookbook: The Success Recipe for Continuous Learning and Improvements
| Osama Al-Baik, James Miller

Agile Base Patterns in the Agile Canon
| Daniel R Greening

OS 33
Grand Ballroom 4
Thursday, 10:00 - 11:30 am

Competitive Poaching of Customers in Mobile Service Market
| Xiahua Wei, Kevin Zhu

How to Build a Cloud Storage Service for Half a Million Users in Higher Education: Challenges Met and Solutions Found
| Raimund Vogl, Dominik Rudolph, Anne Thoring, Holger Angenent, Stefan Stieglitz, Christian Meske

Process Model Representation Layers for Financial Audits
| Michael Werner

**Software Technology Track (ST)**
Co-Chairs: Gul Agha and Rick Kazman

Agile and Lean: Organizations, Products and Development
Minitrack Chair: Daniel Greening, Jeff Sutherland, John Tripp

ST 3
Grand Ballroom
Wednesday, 2:00 - 3:30 pm

Seeking Technical Debt in Critical Software Development Projects: An Exploratory Field Study
| Hadi Ghanbari

Agile Big Data Analytics Development: An Architecture-Centric Approach
| Hong-Mei Chen, Rick Kazman, Serge Haziyev

Pair Programming vs. Solo Programming: What Do We Know After 15 Years of Research?
| Carolina Alves de Lima Salge, Nicholas Berente

ST 4
Grand Ballroom 4
Wednesday, 4:00 - 5:30 pm

**Sensemaking and Complexity in Large-Scale Lean-Agile Transformation: A Case Study from Cisco**
| Ken Power

Open Forum: Agile/Lean Research Challenges and Opportunities

**Big Data Engineering**
Hong-Mei Chen, Ian Gorton

ST 5
Grand Ballroom 7
Thursday, 4:00 - 5:30 pm

Big Data as a Service: A Neo-Metropolis Model Approach for Innovation
| Hong-Mei Chen, Rick Kazman, Serge Haziyev, Valentyn Kropov, Dmitri Chtchourov

EPIC-OSM: A Software Framework for OpenStreetMap Data Analytics
| Jennings Anderson, Robert Soden, Kenneth M. Anderson, Marina Kogan, Leysia Palen

Detection and Visual Inspection of Highly Obfuscated Plagiarisms
| Andreas Schmidt, Sören Bühler, Robert Senger, Steffen Scholz, Markus Dickerhof
Cybercrimes, Cyber-Physical Innovations, and Emerging Investigation Challenges
Brad Glisson, Raymond Choo

ST 6  Garden Isle 1  Wednesday, 4:00 - 5:30 pm

- Service Set Identifier Geolocation for Forensic Purposes: Opportunities and Challenges | Maxim Chernyshev, Craig Valli, Peter Hannay
- Capture the Flag as Cyber Security Introduction | Lucas McDaniel, Erik Talvi, Brian Hay
- Utilizing the Cloud to Store Hijacked Camera Images | Christos Kynigos, William Bradley Glisson, Todd Andel, Todd McDonald

Cybersecurity and Software Assurance
Luanne Goldrich, Rick Linger, Richard George

ST 7  Grand Ballroom 1  Friday, 1:00 - 2:30 pm

- Policy Generator (PG): A Heuristic-Based Fuzzer | Alejandro Felix, Andrew F. Tappenden, James Miller
- A Unified Model for System Security Engineering Support | Thomas Llansó, Patrick Engebretson
- Exploring a Systematic Approach to Malware Threat Assessment | Michele Maasberg, Myung Ko, Nicole L. Beebe

CyberWarfare: Offensive and Defensive Software Technologies
Brian Hay, Steven LaFountain

ST 9  Grand Ballroom 5  Wednesday, 8:00 - 9:30 am

**Strategic Implications of Offense and Defense in Cyberwar | Wade L. Huntley
Mobile Konami Codes: Analysis of Android Malware Services Utilizing Sensor and Resource-Based State Changes | Jacob Boomgaarden, Joshua Corney, Holly Whittaker, George Dinolt, John McEachen
Defensive Cyber Operations in a Software-Defined Network | Thomas Parker, Jeremy Jones, Joshua Mayberry, Gassium Chanman, Zachary Staples, John McEachen, Murali Tummala

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

Mitigating 0-days through Heap Techniques - An Empirical Study | Lucas McDaniel, Kara Nance
Open Forum with a panel of experts including Steven LaFountain, Richard M. (Dickie) George, and Victor Piotrowsk

Digital Forensics - Education, Research, and Practice
Kara Nance, Matt Bishop

ST 11  Grand Ballroom 1  Thursday, 8:00 - 9:30 am

Using Multimedia Presentations to Enhance the Judiciary’s Technical Understanding of Digital Forensic Concepts: An Indonesian Case Study | Niken Dwi Wahyu Cahyani, Ben Martini, Kim-Kwang Raymond Choo
An Android Social App Forensics Adversary Model | Abdullah Azfar, Kim-Kwang Raymond Choo, Lin Liu
Text-based Document Similarity Matching Using sdtext | Clay Shields
**Best Paper Nomination**

Dan Port, Joe Wilf

**ST 12**  Kauai 2  Thursday, 2:00 - 3:30 pm

Which IT Security Investments Will Pay Off for Suppliers? Using the Kano Model to Determine Customers’ Willingness to Pay | Rabea Sonnenschein, André Loske, Peter Buxmann

A User-Centered Approach to Phishing Susceptibility: The Role of a Suspicious Personality in Protecting Against Phishing | Brynne Harrison, Arun Vishwanath, Raghav Rao

Optimizing Business Processes Compliance Using an Evolvable Risk-Based Approach | Sérgio Guerreiro, Rui Pedro Marques, Khaled Gaaloul

**ST 13**  Kauai 2  Thursday, 4:00 - 5:30 pm

Project Risk Management Incorporating Knight, Ellsberg & Kahneman | John Prpić

Developing a Value-Based Methodology for Satisfying NASA Software Assurance Requirements | Daniel Port, Joel Wilf, Madeline Diep, Carolyn Seaman, Martin Feather

Decisions and Disasters: Modeling Decisions that Contribute to Mishaps | Joel Wilf, Dan Port

Mobile App Development

Tim A. Majchrzak, Henning Heitkoetter

**ST 14**  Garden Isle 5  Thursday, 8:00 - 9:30 am

**Developing Apps for Visually Impaired People: Lessons Learned from Practice | Eduardo Ghidini, Wagner D. L. Almeida, Isabel H. Manssour, Milene S. Silveira

MAsCOT: Self-adaptive Opportunistic Offloading for Cloud-Enabled Smart Mobile Applications with Probabilistic Graphical Models at Runtime | Nayyab Zia Naqvi, Jonas Devlieghere, Davy Preuveneers, Yolande Berbers

An Investigation of Usability of Push Notifications on Mobile Devices for Novice and Expert Users | Wen Yong Chua, Klarissa T.T. Chang

Modern Trends in Parallel Computing

Peter Salhofer

**ST 15**  Garden Isle 5  Thursday, 10:00 - 11:30 am

Mobile Application Developers’ Platform Choice Model | Abhinay Puvvala, Amitava Dutta, Rahul Roy, Priya Seetharaman

Meeting Quality Standards for Mobile Application Development in Businesses: A Framework for Cross-Platform Testing | Tor-Morten Groenli, Gheorghita Ghinea

Towards a Reference Architecture for Model-Driven Business Apps | Sören Evers, Jan Ernsting, Tim A. Majchrzak

**ST 16**  Garden Isle 5  Thursday, 2:00 - 3:30 pm

Tuning OpenCL Applications with the Periscope Tuning Framework | Enes Bajrovic, Robert Mijakovic, Jiri Dokulil, Siegfried Benkner, Michael Gerndt

OpenMP is Not as Easy as It Appears | Rogério Gonçalves, Marcos Amaris, Thiago Okada, Pedro Bruel, Alfredo Goldman

Open Forum

Securing the Cloud and the Internet of Things

William Yeager, Jean-Henri Morin

**ST 17**  Kuhio Theater  Friday, 1:00 - 2:30 pm

Security in Internet of Things: Challenges, Solutions and Future Directions | Sathish Alampalayam Kumar, Tyler Vealey, Harshit Srivastava

Securing D2D Wireless Links by Continuous Authenticity with Legitimacy Patterns | Ibrahim Abualhaol, Steven Muegge
Software Product Lines: Engineering, Services, and Management  
Timo Käkölä, Andrea Leitner

**ST 18**  
Grand Ballroom 7  
Friday, 1:00 - 2:30 pm

XANA: An End User Software Product Line Framework for Smart Spaces | Vasilios Tzeremes, Hassan Gomaa

**Understanding How Social-Behavioural Science Theory Can Explain the Design of Software Websites | Arun Vishwanath, Brynne Harrison, Yu Jie Ng

Generating App Product Lines in a Model-Driven Cross-Platform Development Approach | Jan C. Dageförde, Tobias Reischmann, Tim A. Majchrzak, Jan Ernsting

**ST 19**  
Grand Ballroom 7  
Friday, 3:00 - 4:30 pm

Feature-based Variability Management for Scalable Enterprise Applications: Experiences with an E-Payment Case | Davy Preuveneers, Thomas Heyman, Yolande Berbers, Wouter Joosen

OntoSoft Process: Towards an Agile Process for Ontology-based Software | Joice B. Machado, Seiji Isotani, Ellen F. Barbosa, Judson Bandeira, Williams Alcantara, Armando Barbosa, Ig Bittencourt

Evaluation Framework for Analyzing the Applicability of Criteria Lists for the Selection of Requirements Management Tools Supporting Distributed Software Product Line Requirements Management | Maria Florencia Santillan, Timo Käkölä

**Wireless Network**  
Edoardo Biagioni, John McEachen, Murali Tummala

**ST 20**  
Garden Isle 5  
Thursday, 4:00 - 5:30 pm

**Cellular Synchronization Assisted Refinement (CeSAR): A Method for Accurate Geolocation in LTE-A Networks | John D. Roth, Murali Tummala, James W. Scrofani

Cluster Head Selection in Wireless Mobile Ad Hoc Networks Using Spectral Graph Theory Techniques | Thomas Parker, John McEachen

Constructing A Shortest Path Overhearing Tree With Maximum Lifetime In WSNs | Wael Y. Alghamdi, Hui Wu, Wenguang Zheng, Salil S. Kanhere

Experimenting Broadcast Storm Mitigation Techniques in FANETs | Rayner de Melo Pires, Sergio Zumpano Arnosti, Alex Sandro Roschildt Pinto, Kalinka R L J C Branco
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Palmer, B. ES1-49
Pan, Shan L. OS24-64
Pantazos, Kostas CL1-32
Papadopoulos, Homer HC12-54
Paquette, Gilbert KS9-59
Park, Deokgun DA18-41
Park, Sang Woo ES5-50
Park, Sora HC10-53
Park, Sungho CL25-36
Parker, Kevin HC3-52
Parker, Thomas ST9-67, ST20-69
Peascott, Gregory S. DA22-41
Parvania, Masood ES3-50
Paul, Souren HC5-52
Pauleen, David J. KS6-59
Peckelsen, Philipp OS15-63
Pedersen, Peder HC13-54
Pedersen, Rune OS25-64
Pei, René KS4-58
Pekkola, Samuli OS16-63
Pelizäus-Hoffmeister, Helga CL19-35
Peng, Chen DA28-43
Peng, Lifang CL12-34
Pentek, Tobias IN14-57
Penttinen, Esko IN12-57
Pereira, Anrafel F. CL11-34
Pereira, José Roberto EG8-48
Pereira, Wellington EG8-48
Rodrigues
Persano, John KS11-60
Petcu, Roland HC5-52
Petríkina, Jurate OS17-63
Picazo-Vela, Sergio EG9-48
Piccinini, Everlin DA13-40
Pick, James B. IN12-57
Pierre, John W. ES1-49
Piguing, Arceli CL9-33
Pingerger, Jakob CL20-36
Pinsonneault, Alain OS27-65
Pinto, Alex Sandro ST20-69
Rolscholdt
Piramuthu, Otto DSM10-45
Benjamin
Piramuthu, Selwyn IN11-56
Pischicdotchian, Armen DA26-42
Plachkinova, Miloslava HC9-53
Plenter, Florian DA24-42
Poba-Nzaou, Placide CL16-35
Poiani, Thiago Henrique CL7-33
Polites, Greta IN11-56
Poor, Nathaniel DSM15-46
Popowich, Fred DA18-41
Poor, Roman Popp OS6-61
Port, Daniel OS12-68
Pospiech, Marco OS21-64
Potnis, Devendra D. IN12-57
Pröll, Birgit CL27-37
Pröollochs, Nicolas DA7-39
Prpić, John KS12-60, KT13-68
Przybylowicz, Erica EG4-47
Puuvala, Abhinay ST15-68
Pynnönen, Mikko DA10-39, IN15-57
Qi, Wei CL24-36
Qi, Zijie DA8-39
Qi, Zirun IN9-56
Qiao, Mu DA26-42
Qiu, Chun (Martin) IN2-55
Qiu, Liangfei OS28-65
Qureshi, Sayda OS9-62
Raab, Markus CL27-37
Raber, David OS2-60
Radianti, Jaziar CL5-32
Rafaeli, Sheizaf DSM11-45
Rafelsberger, Walter IN9-56
Rahim, Md.Mahbub OS10-62
Ramakrishnan, Arun HC6-52
Ramakrishnan, HS23-65
Ramanujan, R.A. HC11-54
Ramanprasad, Arkalagud CL33-38, EG13-49
Randrup, Nils CL29-37
Rantsakari, Juho HC13-54
Rao, Raghav ST12-68
Rapun, Jose Manuel HC6-52
Martin
Rasthofer, Siegfried IN7-55
Ratan, Rabindra CL2-32
Rathnayake, Chamil DSM9-45, DSM16-46
Ratku, Antal DA4-38
Ratwani, Raj HC4-52
Ravaja, Niklas CL20-36
Recker, Jan DSM1-43, OS2-60
Redlich, Tobias CL18-35, CL23-36
Reichstein, Christopher IN15-57
Reischmann, Tobias ST18-69
Remus, Ulrich DSM11-45
Retschitzegger, Werner CL7-37
Ribaarsky, William DA18-41
Ribeiro, Luiz Carlos ST1-66
Miyadaira
Richter, Alexander KS2-58, KS6-59
Richter, Peggy HC4-52
Rick, Steven CL22-36
Riechert, Jana CL33-38
Riggins, Frederick J. DA31-43
Rikard, RV CL2-32
Rilla, Nina OS4-61
Rinta-Kahila, Tapani IN12-57
Risko, Aj ST8-67
Robinson, William N. IN9-56
Robra-Bissantz, Susanne CL8-33
Roch, Jeremi DSM1-43
Röder, Nina OS25-64
Rojas-Cordova, Alba DA25-42
Rollins, Minna KS7-59
Rosa, Priscila Luzh KS5-58
Rosehart, William ES7-51
Rosen, Rochelle HC11-54
Rosen, Bjorn OS24-64
Rosenkranz, Christoph OS19-63
Rosenthal-Sabroux, Camille EG12-49
Ryo, Rahul ST15-68
Roth, John D. ST20-69
Rothenberger, Marcus OS2-60
Rudkevich, Aleksandr ES3-50
Rudkevich, Tabors ES7-51
Rudolph, Dominik OS33-66
Ruhel, Christopher H. DSM14-46
Ruiz, Pablo A. OS5-30
Ruslahti, Harri CL15-34
Rusu, Lazar OS26-65
Rutherford, James R. EG2-47
Ryan, Ellen HC5-52
Ryan, Jim HC7-53
Ryan, Julie JCH KS10-59
Ryu, Young U. DA8-39, DA17-41
S
Saatatmand, Fatemeh CL10-34
Saarikko, Ted OS26-65
Sachse, Pierre CL20-36
Sadovshuk, Valeri DSM14-46
Säoë, Oystein EG5-47
Saggiomo, Marco CL18-35
Sah, Young June CL2-32
Saito, Yoshia CL16-35
Sakurai, Mihoko EG10-48
Salatge, Nicolas CL6-33
Salazar, Armando OS23-64
Saldanha, Terence KS9-59
Samson, Danny CL20-36
Samuel, Jayaraj IN4-55
Sanchez, Conrad ES2-50
Borraz
Sandberg, Johan DA12-40
Sandner, Philipp CL28-37
Sanfilippo, Madelyn EG7-47
San Nicolas-Rocca, Tonia KS1-58
Santana, Alexsandra OS5-61
Santillan, Maria ST19-69
Florencia
Santos, Caroline Q. DSM5-44
Sarigianni, Christina KS1-58
Sarkar, Avijit IN12-57
Sarlin, Peter DA30-43
Sarnikar, Surendra HC4-52
Sasaki, Jun CL5-32
Sasan, Jasmeet OS9-61
Sauvola, Tanja ST2-66
Savaramuthu, Bastin DA7-39
Tony Roy
Sayles, Sheridan DSM4-44
Sayyari, Erfan CL22-36
Scaff, Ligaya DSM3-44
Scaglione, Anna ES3-50
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FLOOR PLAN
Outdoor Function Space