The Hawaii International Conference on System Sciences

January 3-7
Hilton Waikoloa Village

Celebrating 50th Anniversary
HICSS - 50, A CO-CREATION BY...

- 04 Keynote Speakers
- 1,736 Authors from 635 Papers
- 319 Minitrack Chairs
- 02 Conference Chairs
- 1,100 Conference Attendees from over 50 Countries and Counting
- Symposia, Workshops & Tutorials Leaders 70
- Reviewers 2,047
- Track Chairs 19
- HICSS Staff & Helpers 11
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 Hawaii at Manoa

Scientific Advisor
John Seely Brown, Deloitte Center for the Edge

Co-Advisors for External Development
Dorothy Leidner, Baylor University  |  Souren Paul, Nova Southeastern University

Track Chairs

Collaboration Systems and Technology
Robert O. Briggs, San Diego State University
Jay F. Nunamaker, Jr., University of Arizona

Information Technology in Healthcare
William G. Chismar, University of Hawaii at Manoa
Thomas Horan, Claremont Graduate University

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

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

Digital and Social Media
Kevin Crowston, Syracuse University
Karine Nahon, The Interdisciplinary Center (IDC)
Herzliya and University of Washington

Knowledge Innovation and Entrepreneurial System
Murray Jennex, San Diego State University
Dave Croasdell, University of Nevada, Reno

Electronic-Government
Hans Jochen Scholl, University of Washington
Lemuria Carter, Virginia Commonwealth University

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

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

Software Technology
Gul Agha, University of Illinois at Urbana-Champaign
Rick Kazman, University of Hawaii at Manoa
The Hawaii International Conference on System Sciences (HICSS) invites submission of:

- Symposium, Workshop, and Tutorial (SWT) Proposals;
- Minitrack Proposals;
- Papers;
- Application for Pre-Conference Doctoral Consortium

For more information, please check www.hicss.org or www.hicss.hawaii.edu

**Important Dates for Symposium, Workshop, and Tutorial (SWT) Proposals**

- February 28, 2017 | 11:59 pm HST: Deadline for SWT proposal submission
- March 28, 2017: Notification of Acceptance/Rejection

**Important Dates for Minitrack Proposals**

- February 6, 2017 | 11:59 pm HST: Submission deadline for minitrack proposal
- February 13, 2017: Notification of Acceptance/Rejection

**Important dates for Paper Submission**

- June 15, 2017 | 11:59 pm HST: Paper submission deadline
- August 17, 2017: Notification of Acceptance/Rejection
- September 22, 2017: Deadline for authors to submit final manuscript for publication
- October 1, 2017: Deadline for at least one author of each paper to register for HICSS-51

**Important dates for Pre-Conference Doctoral Consortium Application**

- September 15, 2017 | 11:59 pm HST: Application deadline
- September 30, 2017: Notification of Acceptance / Rejection
On behalf of the people and the State of Hawai‘i, I welcome you to the 50th Hawaii International Conference on System Sciences where you will find an atmosphere of aloha to build new friendships and collaborate for the future, a future that is filled with possibilities and promise. This year’s conference brings together high-caliber scholars and professionals from more than 50 countries around the world.

Experts and leaders from the academic, corporate and government sectors come to discuss their cutting-edge research in information, computer and system sciences. The intellectual contributions shared here will make a global impact, promoting technological innovations and advancing the development in information systems and high tech fields. Wondrous things may happen, all because of the men and women who turn ideas into reality with science.

What you envision and what you do helps industry and government across various disciplines. Mahalo to the Department of Information Technology Management in the Shidler College of Business at the University of Hawai‘i at Mānoa for sponsoring this year’s conference.

I wish you all a successful conference as you exchange research and ideas in an interactive working environment.

With warmest regards

DAVID Y. IGE
Governor, State of Hawai‘i
On behalf of the global community of researchers who have brought HICSS to what it is today, we would like to welcome you to the 50th anniversary conference.

It is a major milestone for a research conference to last this long, given the rapid change in computer technologies. HICSS began in 1968, with a mission to explore new frontiers of computer systems. Having gotten off to a good start, HICSS gathered top scientists from academia, industry, and governmental institutions with over 100 papers. One could notably recognize among seminal contributions, the works of Vincent Cerf, co-inventor of TCP/IP, Leonard Kleinrock, inventor of packet switching and hierarchical routing, Larry Roberts, developer of communication networks, and Dennis Ritchie who created the C programming language and also a co-creator of the UNIX operating system. Subsequently, their collaborative work on the development of the Internet was rewarded with the Draper Award – known as the Nobel Prize in Engineering, the Turing Award, and U.S. National Medals in Technology, to name a few. The number of seminal works has continued to grow since then, along with increasing numbers of HICSS authors receiving recognitions, accordingly.

For all of its accomplishments, HICSS has been and continues to be the venue of choice for researchers – seniors and novices – to showcase their cutting-edge research. This year, we are looking forward to the presentations of another set of outstanding papers, 635 in all (an acceptance rate of <48%).

As a forerunner in technological innovations, HICSS continues to shape the fields of computer applications today. Emerging topics take precedence over mature ones, and teams of researchers continue their work in building a massive database, cataloguing 50 years of worth of contributions from HICSS in order to measure the impact of the conference. Please visit our website to access our resources and conduct your own analysis.

As HICSS looks to its next 50 years, we call for your continued participation and support in sustaining the conference on its mission.

For now, we warmly welcome you to the beautiful venue at the Hilton Waikoloa Village in Kona, on the Big Island of Hawai’i, and wish you a very productive meeting with your colleagues.

TUNG BUI & RALPH SPRAGUE JR.
Conference Co-Chairs
**Overall Schedule**

**Tuesday | January 3**

09:00 – 07:00  Pre-Conference Doctoral Consortium  
12:00 – 05:00  Registration

**Wednesday | January 4**

07:00 – 05:00  Registration  
08:00 – 09:15  Symposia, Workshops, and Tutorials  
09:15 – 09:45  Coffee Break  
09:45 – 11:00  Symposia, Workshops, and Tutorials  
11:00 – 11:45  Lunch (on your own, but pre-order is available during the coffee break)  
11:55 – 01:00  Keynote Address  
01:10 – 02:25  Symposia, Workshops, and Tutorials  
02:25 – 02:55  Coffee Break  
02:55 – 04:10  Symposia, Workshops, and Tutorials  
04:20 – 05:00  Meeting - Track Chairs and Minitrack Chairs (See pp.14 - 15 for location)  
05:00 – 05:30  Meeting - Minitrack Chairs and Authors (See pp. 14 - 15 for location)  
06:00 – 07:00  Welcome Reception at Lagoon Lanai | 1-hour Hosted Bar, courtesy of Hilton Waikoloa Village

**Thursday | January 5**

07:30 – 05:00  Registration  
09:00 – 04:00  Cybersecurity Competition  
08:00 – 09:30  Paper Sessions  
09:30 – 10:00  Coffee Break  
10:00 – 11:30  Paper Sessions  
11:30 – 12:30  Lunch  
12:45 – 01:50  Keynote Address  
02:00 – 03:30  Paper Sessions  
03:30 – 04:00  Coffee Break  
04:00 – 05:30  Paper Sessions  
04:00 – 05:30  Women’s Networking  
06:00 – 07:00  Pau Hana Happy Hour

**Friday | January 6**

07:30 – 05:00  Registration  
09:00 – 04:00  Cybersecurity Competition  
08:00 – 09:30  Paper Sessions  
09:30 – 10:00  Coffee Break  
10:00 – 11:30  Paper Sessions  
11:30 – 12:30  Lunch  
12:45 – 01:50  Keynote Address  
02:00 – 03:30  Paper Sessions  
03:30 – 04:00  Coffee Break  
04:00 – 05:30  Paper Sessions  
06:00 – 07:00  Pau Hana Happy Hour | Meet the Editors

**Saturday | January 7**

07:30 – 12:00  Registration  
08:00 – 09:30  Paper Sessions  
09:30 – 10:00  Coffee Break  
10:00 – 11:30  Paper Sessions  
11:30 – 12:30  Lunch  
12:45 – 01:50  Keynote Address  
02:00 – 03:30  Paper Sessions  
03:30 – 04:00  Coffee Break  
04:00 – 05:30  Paper Sessions  
06:00 – 09:00  Celebration of the 50th Anniversary | Recognition and Award | Best Paper Award Ceremony | Hawaiian Gala Dinner
**Event Overview**

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22 Plenary Talks

26 Symposia, Workshops, and Tutorials
- 27 Big Data
- 28 Electronic Government
- 28 Innovation and Sustainability
- 29 IT and Society
- 30 Scientific Inquiry and Research Methods
- 30 Security
- 31 Software Development Approach
- 32 Technologies and Standards

33 Schedule of Paper Presentations by Tracks
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- 39 Decision Analytics, Mobile Services, and Service Science Track
- 43 Digital and Social Media Track
- 47 Electronic Government Track
- 50 Electric Energy Systems Track
- 52 Information Technology in Healthcare Track
- 55 Internet and the Digital Economy Track
- 58 Knowledge Innovation and Entrepreneurial Systems Track
- 60 Organizational Systems and Technology Track
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18 January 6, 2017 (Friday)
20 January 7, 2017 (Saturday)

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Todd Richmond, University of Southern California Institute for Creative Technologies

23 Cities are Going Digital: They are Getting Connected, Installing Sensors, Using Data, and Becoming Smarter.
Peter Marx, GE Capital

24 Chasing Fire – IT’s Crucial Role in Meeting This Century’s Exponential Challenges
Paul Saffo, Stanford University

25 The Game is Changing – Are We?
John Seely Brown, Deloitte Center for the Edge

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Big Data
27 Big Data Analytics and Data Visualization: Trends and Platforms
27 Big Data Analytics: Body of Knowledge, Organizational Issues and Governance

Electronic Government
28 Smart Cities: Bringing Research and Practice Together

Innovation and Sustainability
28 HICSS and the Smart Grid: Twenty Years of Energizing the Future
29 The Fifth Symposium on Sustainable Energy and Computing (SSEC) 2017

IT and Society
29 Digital Transformation
29 Global Innovation in IS/IT: What is the Role of Innovative Entrepreneurship?
29 MIS Quarterly Executive Academic Workshop in preparation for the December 2017 Special Issue on The Sharing Economy
29 Social Movements and IT
Scientific Inquiry and Research Methods
30 Collaboration Engineering: A 12 year Retrospective and Agenda Setting for the Next 12 Years
30 Digital Methods “Best Practices”
30 Fundamentals and Applications of Visual Analytics
30 Introduction to Social Network Analysis

Security
30 Approaches for Cyber Security Education
31 Credibility Assessment and Screening Technologies (CAST)
31 Cybersecurity Big Data Analytics
31 Cybersecurity in Action: From Research to Practice
31 Cybersecurity Competitions

Software Development Approach
31 UX Strategy
31 Computing in Smart Toys

Technologies and Standards
32 Cognitive Computing and Cognitive Assistants for Research and Teaching
32 Human-Centered Digital Transformation and Service Orientation

Schedule of Paper Presentations by Tracks and Minitracks

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34 Advances in Teaching and Learning Technologies
35 Communication and Information Systems Technology for Crisis and Disaster Management

Decision Analytics, Mobile Services, and Service Science Track
39 Addressing Grand Challenges with Information Technology
39 Big Data and Analytics: Concepts, Methods, Techniques and Applications
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Data, Text and Web Mining for Business Analytics

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Deep Learning, Ubiquitous and Toy Computing

Digital and ICT Enabled Services

Gamification

Intelligent Decision Support and Big Data for Logistics and Supply Chain Management

Interactive Visual Decision Analytics

Internet of Things: Providing Services Using Smart Devices, Wearables and Quantified Self

Machine Learning and Network Analytics in Finance

Mobile Value Services

Multi-criteria Decision Analysis and Support Systems

Open Digital Services and Platforms

Service Analytics

Service Science

Smart Service Systems: Analytics, Cognition and Innovation

Streaming Data Analytics and Applications

Data Analytics and Data Mining for Social Media

Decision Making in Online Social Networks

Digital and Social Media in Enterprise

Digital Location

Games and Gaming

Learning within Digital and Social Media

Network Analysis of Digital and Social Media

Persistent Conversation

Social Media: Culture, Identity, and Inclusion

Social Networking and Communities

Values, Power, and Politics in Digital Infrastructures

Electronic Government Track

Celebratory Session

Cybersecurity and Government

Emerging Topics in Electronic Government

Government and Disaster Resilience

Government Services and Information

ICT4D: ICTs and Sustainable Development

Inside the Insider Threat

Open Data, Information Processing, and Datification in Government

Participation, Crowdsourcing, Co-creation, and Innovation in Open Government

Policies and Strategies for Digital Government

Smart Cities, Smart Government, and Smart Governance

Social Media and Government

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Transformational Government: Governance, Organization, and Management

Digital and Social Media Track

Ignite Talks

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Collective Intelligence and Crowds

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51 Markets, Policy, and Computation
51 Monitoring, Control and Protection
51 Resilient Networks

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53 IT Adoption, Diffusion, and Evaluation in Healthcare
53 IT Architectures and Implementations in Healthcare Environments
54 Mobile Apps and Wearables for Health Management, Analytics, and Decision Making
54 Security and Privacy Challenges for Healthcare
54 Senior’s Use of Health Information Technology
55 Social Media and Healthcare Technology
55 User Experience (UX) in Information Systems (IS) for Health and Wellness

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55 Electronic Marketing
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56 Innovative Behavioral IS Security and Privacy Research

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57 Crowd Science
57 Designing and Deploying Advanced Knowledge Systems
57 Entrepreneurship and Knowledge Management
58 Innovation Uncertainties and Socio-Political Legitimization
58 Knowledge Economics
58 Knowledge Flows, Transfer, Sharing, and Exchange
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### January 6, 2017

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<tr>
<th>Time</th>
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<tbody>
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<td>8:00 - 9:30</td>
<td>DSM 7: Decision Making in Online Social Networks p. 44</td>
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<tr>
<td></td>
<td>IN 2: Electronic Marketing p. 55</td>
</tr>
<tr>
<td></td>
<td>CL 1: Access (or Sharing) Economy p. 34</td>
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<td></td>
<td>CL 13: Data Science and Analytics for Collaboration p. 36</td>
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<td>DA 26: Smart Service Systems: Analytics, Cognition and Innovation p. 43</td>
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<td></td>
<td>HC 7: IT Architectures and Implementations in Healthcare Environments p. 53</td>
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<td>ES 6: Monitoring, Control, and Protection (Distributed Decision and Control) p. 51</td>
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<td>KS 15: Reports from the Field p. 60</td>
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<td>EG 14: Participation, Crowdsourcing, Co-Creation, and Innovation in Open Government p. 49</td>
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<td>9:30 - 10:00</td>
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<td>HC 3: Health Behavior Change Support Systems p. 52</td>
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<td>IN 3: Electronic Marketing p. 56</td>
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<td>CL 2: Access (or Sharing) Economy p. 34</td>
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<td>ST 9: Deception, Digital Forensics, and Malware p. 68</td>
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<td>HC 8: IT Architectures and Implementations in Healthcare Environments p. 53</td>
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<td>ES 8: Resilient Networks (Interdependencies and Testbeds) p. 52</td>
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<td>KS 7: Knowledge Economics p. 59</td>
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<td>CL 15: Emerging Issues in Distributed Group Decision-Making: Opportunities and Challenges p. 36</td>
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<td>DSM 12: Learning within Digital and Social Media p. 45</td>
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<td>IN 4: Electronic Marketing p. 56</td>
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<td>CL 18: Global Virtual Teams p. 36</td>
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<td>ST 4: Cloud and the Internet of Things: Challenges and Opportunities p. 67</td>
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<td>DA 8: Decision Support for Smart City and Digital Services p. 40</td>
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<td>HC 14: Seniors’ Use of Health Information Technology p. 54</td>
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<td>ES 2: Integrating Distributed or Renewable Resources (Demand Response, Microgrids, and Storage) p. 50</td>
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<td>KS 5: Entrepreneurship and Knowledge Management p. 58</td>
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<td>IN 9: Online Games and Game-Like Systems p. 57</td>
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<td>IN 10: Social Shopping: The Good, the Bad and the Ugly p. 57</td>
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<td>CL 17: Global Virtual Teams p. 34</td>
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<td>ST 12: Mobile App Development p. 68</td>
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<td>CL 30: Technology Mediated Collaborations in Healthcare and Wellness Management p. 38</td>
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<td>HC 15: Seniors’ Use of Health Information Technology p. 54</td>
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<td>ES 4: Markets, Policy, and Computation (Frontiers in Power Systems Optimization) p. 51</td>
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<td>KS 4: Designing and Deploying Advanced Knowledge Systems p. 58</td>
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<td>KS 10: Knowledge Management Disrupted - Understanding the Impacts of Social and Mobile Media p. 59</td>
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<td>DSM 14: Social Media: The Good, the Bad and the Ugly p. 57</td>
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<td>CL 31: Technology Mediated Collaborations in Healthcare and Wellness Management p. 38</td>
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<td>HC 16: Seniors’ Use of Health Information Technology p. 54</td>
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# Event Schedule

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<td>Celebration of the 50th Anniversary</td>
<td>Recognition and Awards</td>
<td>Best Paper Award Ceremony</td>
<td>Hawaiian Gala Dinner</td>
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HICSS-50
<table>
<thead>
<tr>
<th>Time</th>
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| 8:00 - 9:30| DSM 8: Digital Social Media in Enterprise  
Queen's 4  
CL 3: Advances in Teaching and Learning Technologies  
Waikoloa 2  
ST 16: Wireless Networks  
Queen's 6  
HC 9: IT-Enabled Healthcare Coordination  
Waikoloa 3  
HC 1: Global Health IT Strategies  
King's 1  
Electric Energy System Track: Planning Session  
King's 2  
KS 13: Managing Knowledge for Innovation, Agility, and Collaboration  
King's 3  |
| 9:30 - 10:00| Coffee Break  
Queen's 4  
CL 3: Advances in Teaching and Learning Technologies  
Waikoloa 2  
ST 16: Wireless Networks  
Queen's 6  
HC 9: IT-Enabled Healthcare Coordination  
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| 10:00 - 11:30| Buffet Lunch  
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CL 3: Advances in Teaching and Learning Technologies  
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Queen's 6  
HC 9: IT-Enabled Healthcare Coordination  
Waikoloa 3  
HC 1: Global Health IT Strategies  
King's 1  
Electric Energy System Track: Planning Session  
King's 2  
KS 13: Managing Knowledge for Innovation, Agility, and Collaboration  
King's 3  |
| 2:00 - 3:30| DSM 5: Data Analytics and Data Mining for Social Media  
CL 28: Social Media and e-Business Transformation  
CL 5: Advances in Teaching and Learning Technologies  
IN 14: Transformation Towards Cloud Computing  
DA 27: Streaming Data Analytics and Applications  
DA 15: Interactive Visual Decision Analytics  
HC 11: Mobile Apps and Wearables for Health Management, Analytics, and Decision Making  
OS 27: Social-Technical Issues in Organizational Information Technologies  
KS 14: Organizational Learning  
KS 11: Knowledge Society, Culture, and Information Systems  |
| 3:30 - 4:00| Coffee Break  
Queen's 4  
CL 28: Social Media and e-Business Transformation  
CL 5: Advances in Teaching and Learning Technologies  
IN 14: Transformation Towards Cloud Computing  
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KS 14: Organizational Learning  
KS 11: Knowledge Society, Culture, and Information Systems  |
| 6:00 - 9:00| Celebration of the 50th Anniversary | Recognition and Awards | Best Paper Award Ceremony | Hawaiian Gala Dinner |
New mediums for communication and collaboration have, and will, disrupt all aspects of life. Technology has been breaking time and space for centuries, but the digital revolution sparked a sea change that we are now only beginning to comprehend. Consider that we're in the midst of the third major new medium of the 21st Century – first the internet, then mobile, and now immersive (Augmented Reality/ Virtual Reality/Mixed Reality). Our wholesale adoption of digital has led to numerous unintended consequences, and the new immersive mediums will profoundly change not only our relationship with information, but with each other. The challenge is figuring out how to make the technology useful and meaningful to humans, because analog (human) and virtual (digital) don’t really mix. That said, oil and vinegar combined (in the right amounts) with agitation to create an emulsion that can result in a tasty salad dressing. And continuing the food metaphor, introducing a binding agent such as egg yolk transforms the separating salad dressing into mayonnaise – which is a stable emulsion.

As we move forward into the 21st century, we should be looking for “egg yolk” – those things that help bind the digital to the analog, the virtual to the physical, so technology can help enhance the human experience rather than replace it.

By day Todd Richmond is the director of the Mixed Reality Lab and Advanced Prototypes Group at the USC Institute for Creative Technologies, as well as the Mixed Reality Studio at the USC School of Cinematic Arts. By night he is a musician, motorcyclist, and conceptual troublemaker. In a previous life Todd was a chemistry professor at The Claremont Colleges. Early-on he incorporated multimedia and web technologies into his teaching and research, leading him to pursue a broader understanding of technology and content at USC. He works in emerging technologies and their implications/applications for training, learning, operations, and humanity. On the music tip he has studied with Grammy-winning bassist Victor Wooten, and performs regularly around southern California in a variety of ensembles. Todd earned a B.A. in chemistry from the University of San Diego, Ph.D in chemistry from Caltech, and was a post-doctoral fellow in protein engineering at U.C. San Francisco. He has been an invited speaker at TEDx, SxSW and other events, often serving as a reality-check for AR, VR, and other disruptive technologies.
Cities are going digital:
They are getting connected, installing sensors, using data, and becoming smarter.

Peter Marx
Executive Director, GE Digital

Most people worldwide now live in cities. The city is the platform for human life designed to keep us safe, give us roofs over our heads, provide us with clean food and water, and provide good places to raise families. They’re economic engines, as well as the drivers of culture and intellectual thought. Yet our cities have often been slow to adopt the latest technologies and data-driven processes. Today we are seeing leading cities adopting technology and data to deliver better services and greater transparency. Whether it is body-worn cameras on police officers or drones for fire fighters, cities are at the forefront of the discussion on how we will be safe in the future. With real estate and housing, the cities are delivering to private companies and demanding data from them to address equity and access. The same is happening with mobility and transportation, energy and water, and even resiliency and counter-terrorism.

We will focus on the technologies and systems changing the places where we live as they go through the largest change of several lifetimes, all due to inexpensive sensing, digital connectivity, data distribution, and analytics and heuristics. The things happening today are glimpses into a future where we will all have to work through the effects of connected autonomous vehicles, augmented and mixed reality, and, of course, the tension between public awareness and personal privacy.

Prior to coming to General Electric he was the Chief Technology Officer for the City of Los Angeles. Under his tenure the City implemented the open data portal (#1 in the US), cyber intrusion command center (CICC), CityLinkLA (broadband), significant improvements in fire dispatch and control, partnerships with numerous technology providers, and the nation’s largest deployment of body-worn cameras for police officers. LA was recognized as the #1 digital large city in 2014 and #2 in 2015 by GovTech / League of Cities. Marx was Vice President, Business Development, for Qualcomm Labs where he handled R&D strategy for numerous initiatives. He started the Gimbal initiative as part of his overall work on driving the development of new technologies ranging from augmented reality to context awareness. He was the CTO for Vivendi-Universal Games (which shipped World of Warcraft and many other games) and was the Vice President, Emerging Technologies for Universal Studios. A number of games won the highest industry awards. He previously held the position of Vice President at Mattel handling digital and online products and services, including winning a Webby™ for the games portal. As an engineer he was the Senior Research Engineer for Electronic Arts with lead roles in numerous videogames, including Madden Football, NASCAR, Knockout Kings (Fight Night), etc. He worked for Apple Computer on Quicktime and ISDN.

Marx has spent his career writing software, working with technologies and technologists, and driving the state-of-the-art forward. Marx also holds the position of Adjunct Professor at the University of Southern California.
Chasing Fire – IT’s Crucial Role in Meeting This Century’s Exponential Challenges
Paul Saffo
Futurist, Stanford University

Steeped in Moore’s Law, IT professionals assume they thoroughly understand exponential phenomena. Nothing could be further from the truth, and the consequence has been two decades of neglected challenges and missed opportunities. Meeting the challenges ahead demands a fresh examination of exponential assumptions in the service of deep innovation in the digital domain.

Anything less amounts to a reckless abdication of responsibility by the IT community.

Paul is a Silicon Valley-based forecaster with three decades experience helping corporate and governmental clients understand and respond to the dynamics of large-scale, long-term change. He teaches at Stanford where he is a Consulting Associate Professor in the School of Engineering, and at Singularity University where he chairs the Future Studies track. Paul is also a non-resident Senior Fellow at the Atlantic Council, and a Fellow of the Royal Swedish Academy of Engineering Sciences. Paul holds degrees from Harvard College, Cambridge University, and Stanford University.

Cybersecurity Competitions
9:00 - 4:00
Thursday January 5 and Friday January 5
Grand Promenade

Meet the Editors
6:00 - 7:00
Friday 6
Queen’s, Konas, and Waikoloas
The Game is Changing – Are We?
John Seely Brown (JSB)
Independent Co-chairman, Deloitte Center for the Edge

Given the crazy pace of change that we all love and hate, we, in this room, must be prepared to not only take on the emerging hard socio-technical challenges, but we also need to deeply question our institutional architectures, our public policies, and forms of learning. And all of these are entangled. Indeed, new deep learning systems, as seen in autonomous vehicles, for example, raise fundamental ethical issues while they also influence and enable new behaviors and social practices. This means, that as technologists, we are now being thrown into the midst of some fundamental – if not ontological – questions. This talk will explore our rapidly changing, broadly connected and radically contingent world and the lenses needed to frame, or reframe, the challenges that technological advances have pushed forward.

John Seely Brown (JSB) was the Chief Scientist of Xerox Corporation until 2002 and director of the Xerox Palo Alto Research Center (PARC) until 2000. A master integrator and instigator of productive friction, JSB explores the whitespace between disciplines and builds bridges between disparate organizations and ideas. In his more than two decades at PARC, JSB transformed the organization into a truly multidisciplinary research center at the creative edge of applied technology and design, integrating social sciences and arts into the traditional physics and computer science research and expanding the role of corporate research to include topics such as the management of radical innovation, organizational learning, and complex adaptive systems. JSB is currently a visiting scholar and advisor to the Provost at the University of Southern California where he facilitates collaboration between the schools for Communication and Media and the Institute for Creative Technologies. JSB is also currently the Independent Co-Chairman for Deloitte’s Center for the Edge where he pursues research on institutional innovation and a reimagined work environment built on digital culture, ubiquitous computing, and the need for constant learning and adaptability. His personal research interests include new approaches to learning, digital youth culture, digital media, and the application of technology to accelerate deep learning within and across organizational boundaries. JSB received a BA from Brown University in 1962 in mathematics and physics and a PhD from the University of Michigan in 1970 in computer and communication sciences. He has nine honorary degrees that reflect the breadth and diversity of his leadership. He is an avid reader, traveler, and motorcyclist.
Symposia, Workshops, & Tutorials

- Big Data
- Electronic Government
- Innovation & Sustainability
- IT & Society
- Scientific Inquiry & Research Methods
- Security
- Software Development Approach
- Software Technologies
This workshop presents practical skills in managing data by exploring the trends and key platforms for big data analytics and visualization. HICSS attendees teaching and conducting research in the analytics area will benefit from exposure to big data technologies and data visualization tools such as Aster Discovery Platform and SAS Visual Analytics. Academics that wish to teach a course in Big Data; incorporate a data visualization and advanced analytics module in their existing Business Intelligence/Big Data/Analytics courses; or include real-world scenario based video vignettes on various industries and sports analytics will find value in the workshop. The session will begin with an introduction to Teradata University Network. This will be followed by a demonstration of Teradata Aster platform and how it can be used for teaching and research. SAS Visual Analytics will be introduced to academics who wish to incorporate a data visualization module to their existing Business Intelligence/Big Data/Analytics courses. The last session will focus on additional teaching material along with video vignettes that describe the use of analytics in business and sports.

**Big Data Analytics: Body of Knowledge, Organizational Issues and Governance**

Frank Armour, J. Alberto Espinosa

This workshop will look at some of the key components that an organization should have in place to build an enterprise level Big Data program, organized into three main areas:
- BDA Body of Knowledge – knowledge and skills organizations need (and educational institutions need to teach) for successful BDA
- Organizational Issues – important non-BDA organizational issues that managers and educators need to pay attention for successful BDA (e.g., business process, enterprise architecture, BDA culture/maturity, strategy, human and other resources, etc.)
- Governance – alignment of business needs with organizational structures, rules and compliance for successful BDA (e.g., privacy, security, data access/sharing, etc.)
To celebrate the 50 years of HICSS, we would like to highlight the achievements of women in our field, underline women professionals expertise, and to continue to provide a platform for participants to openly discuss issues related to the roles and rights of women in the academic and related professions. This year’s Women’s Network event features a mini-workshop that discusses obstacles and solutions to commonly encountered career situations.

**Text Mining Challenges and Solutions in Big Data**
Normand Peladeau, Derrick L. Cogburn

This half-day HICSS tutorial provides an introduction to the problems, challenges, and opportunities of text analytics. It will focus on some of the main challenges encountered by the analysts processing text data (high dimensionality, polymorphy of language, polysemy of words, misspellings) as well as on the natural language processing and statistical techniques typically used to meet these challenges. While illustrations of those challenges and techniques will be carried on using Provalis Research’s text analytics software, the workshop will be centered around the principles involved in any text analytics task, irrespective of the software used. References to existing commercial as well as open-source tools will also be provided.

**Women’s Networking**
Gondy Leroy, Nanette Levinson, Cynthia Riemenschneider

To celebrate the 50 years of HICSS, we would like to highlight the achievements of women in our field, underline women professionals expertise, and to continue to provide a platform for participants to openly discuss issues related to the roles and rights of women in the academic and related professions. This year’s Women’s Network event features a mini-workshop that discusses obstacles and solutions to commonly encountered career situations.

**Electronic Government**

**Smart Cities: Bringing Research and Practice Together**
Mila Gascó, Mitch Cochran, Theresa Pardo

During a full-day meeting, we will discuss issues such as the challenges cities face nowadays, the different definitions of smart cities, the diverse strategies undertaken by different cities in order to become smart, the role of stakeholders (companies, universities, and citizens, among other), the contribution of the academy to the smart city “movement”, the operationalization of smart cities, the overcoming of silo management (which has been the traditional way cities and counties have been managed), or the contribution of big data or the Internet of Things. We will also evaluate the impact and the transformation in cities brought about by the transition to smartness, 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.

**Innovation and Sustainability**

**HICSS and the Smart Grid: Twenty Years of Energizing the Future**
Thomas Overbye, Bob Thomas

The symposium has three parts. First, through a community based process three of the best paper authors out of those who have participated in the Electric Energy Systems Track at HICSS over the past twenty years have been asked to make a special presentation at this session. They will each discuss their area of expertise in whatever terms they feel appropriate. They will discuss the impact of ideas presented in their HICSS papers of the past; they will talk about progress in the field since, and will present their vision for the future of the field. Second, three leaders of the US electric industry representing academia, government, industry will participate in a special panel titled “Two Decades of Competitive Electricity in the US: Drivers, principles, evolution and lessons learned.” Third, Bob Thomas, who has been chair of the Electric Energy Track for its entire twenty-year existence, will present a special paper titled “Reflections on Twenty Years of Electric Power Research at HICSS”
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 panel discusses innovation in IS/IT with a particular focus on entrepreneurial innovation in the technology sector. We review how high growth small and medium enterprises in the technology sector drive distributed innovation and thrive from ecosystems that provide the right infrastructure, access to talent, knowledge, and financial capital. The role of Universities is reviewed as enablers of innovative entrepreneurship. Key trends, opportunities and obstacles to growth are reviewed through examples from small and medium enterprises, social enterprises, incubators and projects in the developed and developing world.

This workshop intends to explore aspects of the sharing economy that are of interest to business and technology leaders. Our objective is to examine the strategic business opportunities and management challenges associated with operating in a sharing economy.

Innovative digital technologies are changing the ways in which social activists identify opportunities, communicate, demonstrate, and collaborate. Digital technologies, particularly social media, afford unprecedented visibility and expose injustices, and afford wide-spread participation in cyberactivism. While these technology affordances facilitate social good in many cases, digital technology can also be used to support or even create injustices and mobilize harmful movements. Although the literature of Social Movements is well established with streams in sociology, economics, psychology, and communication, the research area of social movements and digital technology is still at a nascent stage. The objective of this symposium is to bring together scholars and activists to discuss ways in which practice can inform theory and theory can inform practice around social movements and IT.
The workshop would provide an Introduction to Collaboration and Collaboration Engineering and key insights from different researchers. The first half of the workshop will focus on building consensus around a list of currently accepted paradigm elements and the schools of collaboration that are the primary guardians. For the second half of the workshop, a modified Open Space dialogue will be used to surface futures topics and create posters for people to drift toward and brainstorm. A convergence activity will be carried out to prioritize and find commitment toward work in specific surfaced areas. Deliverables would be manifestos for R and/or D in specific areas. ThinkTank software will be employed to flesh out research agenda proposals and specific action plans. The workshop will end with a formulation of the research agenda for the next 10 years.

**Digital Methods “Best Practices”**
Shawn Walker, Mary L. Gray, Robert M. Mason, T.L. Taylor

This intensive half-day workshop focuses on approaches and best practices for studying digital and social media. We aim to go beyond the application of existing methods into online environments and collect innovative methods that break new ground while producing rigorous insights. We will also highlight technical and ethical challenges that arise from our studying cross-platform, digital and social media phenomenon. The output of this workshop will be an open, “co-authored” group syllabus built on contributed readings and case studies discussed in the workshop.

**Science Inquiry and Research Methods**
Collaboration Engineering: A 12 year Retrospective and Agenda Setting for the Next 12 Years
Daniel Mittleman, Douglas A. Druckenmiller, Robert O. Briggs

**Fundamentals and Applications of Visual Analytics**
David Ebert, Kelly Gaither

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. The goals of this tutorial are to 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.

**Introduction to Social Network Analysis**
Devan Rosen, George Barnett

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.

**Security**

**Approaches for Cyber Security Education**
Wm. Arthur Conklin, Tony Coulson

The discipline of cybersecurity is still in relative infancy. Although developing the correct foundations for education is a challenging task, two pillars that provide frameworks for the development of foundational elements associated with curricula have been developed. This workshop will examine those two pillars, i.e., the use of Knowledge Units (KUs), proposed by the Centers of Academic Excellence in Cyber Defense Education and relevant elements from the National Initiative on Cyber security Education (NICE). Feedback will be sought from participants. Changes for the future in the realm of curricula development will be identified.
Credibility Assessment and Screening Technologies (CAST)
Jay F. Nunamaker, Jr., Judee K. Burgoon, Matthew L. Jensen, Thomas O. Meservy, Jeffry Proudfoot

Kohala 2 Wednesday, 1:10 – 4:10 pm
Kohala 3 Wednesday, 3:40 – 4:10 pm
Kohala 4 Wednesday, 8:00 am – 4:10 pm
Water's Edge Boardroom Thursday, 8:00 – 11:30 am

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.

Cybersecurity Big Data Analytics
Mark Patton, Hsinchun Chen

Kohala 2 Wednesday, 1:10 – 4:10 pm

Cybersecurity research and development can be aided by the analysis of big data, but managing and analyzing big data is itself inherently challenging. This symposium aims to provide a unique perspective for researchers by examining big data analytics in the context of cybersecurity and cybersecurity research. Critical components in this area that will be addressed include data, analytics, data handling, and visualization.

Cybersecurity in Action: From Research to Practice
Tung Bui, Alec Yasinsac, Tyson Terrill Brooks, Sr, Eric Clemons

Kohala 3 Wednesday, 8:00 – 11:00 am

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.

Software Development Approach
UX Strategy
Suzanne Kieffer

Waikoloa 2 Wednesday, 8:00 – 11:00 am

This half-day tutorial deals with the strategic deployment of user experience (UX) activities and processes in software organizations. It is tailored to anyone (researchers, designers, developers, UX professionals, managers, etc.) intending to – curious about how to– increase organizational efficiencies by implementing UX strategy. The tutorial consists of courses and case-based exercises structured towards two learning objectives: understanding and successfully planning UX strategy.

Computing in Smart Toys
Patrick C. K. Hung, Marcelo Fantinato, Farkhund Iqbal

Queen's 4 Wednesday, 1:10 – 4:10 pm

A smart toy is defined as a device consisting of a physical toy component in an electronic form that connects to a computing system with online services through networking and sensory technologies to enhance the functionality of a traditional toy. Toy makers such as Hasbro and Mattel are increasingly producing smart toys and it is important to understand the various research and practical issues. This leads to toy computing. Toy computing is a recently developing concept which transcends the traditional toy into a new area of computer research using ubiquitous technologies. This symposium aims to cover the research issues of toy computing for smart toys from both technical and non-technical perspectives.
Cognitive Assistants have become essential. No human can absorb the amount of data available for their profession nor can they enhance outcomes without leveraging latest information. With assistance from cognitive systems, humans can make better, faster and more accurate decisions. This tutorial will explore how cognitive assistants are improving the outcomes of doctors, lawyers, teachers and other professionals. Participants will learn about the underlying technologies of Cognitive Assistants. Challenges in developing such systems will be discussed. There will be a demonstration of Cognitive Assistants and Cognitive Computing tools. Participants will receive some hands-on experience using Cognitive Assistants as well.

Human-Centered Digital Transformation and Service Orientation
Yassi Moghaddam, Heather Yurko, Terri Griffith

Driven by globalization and hardware commoditization, business and IT leaders today are facing tremendous challenges to innovate at an increasingly rapid rate. Digital transformation refers to how organizations are leveraging emerging information communication technologies (ICTs) and digital solutions to reshape their businesses to co-create value and stay competitive in response to these contemporary challenges. This workshop will bring together academics, practitioners and other thought leaders, in order to explore the latest advances in research and practice on digital transformation and service orientation and its applications in business and society.

Congratulations to HICSS on the 50th Anniversary! IBM is a proud sponsor of HICSS, one of the longest standing scientific communities in the information systems and technology fields.

As you consider how to leverage your HICSS experience, the IBM would like to invite you 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 will not be long before each of us has our own personal “cognitive assistant” that augments our capabilities and performance.

If you would like to experiment with Cognitive Systems, please go to http://onthehub.com/ibm/ and request access to IBM Bluemix, which includes the Watson APIs and many tutorials. Experiment!

At HICSS-50, cognitive systems related sessions where the IBM team will participate include:

- A full day tutorial on Cognitive Computing featuring global experts and interactive demos
  January 4, 8:00 am – 4:00 pm in Kona 5
- A Minitrack on Business Intelligence, Analytics and Cognitive: Case Studies and Applications
  January 5, 8:00 am – 11:30 am in Kona 4
- A Minitrack on Smart Service Systems: Analytics, Cognition and Innovation
  January 6, 8:00 am – 9:30 am in Waikoloa 3

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

Naguib Attia, Vice President, and the IBM Team
IBM Global University Programs and Cognitive Systems Institute Group
**Collaboration Systems and Technologies Track (CL)**  
Co-Chairs: Robert Briggs and Jay Nunamaker

### Access (or Sharing) Economy  
Minitrack Chairs: Bo Sophia Xiao, Eric Lim, Chee-Wee Tan

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<tr>
<th>CL 1</th>
<th>Queen’s 6</th>
<th>Friday, 8:00 – 9:30</th>
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<tbody>
<tr>
<td>Integrated Value Configurations in the Sharing Economy</td>
<td>Andreas J. Reuschl, Ricarda B. Bouncken, Sven M. Laudien</td>
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<td>An Empirical Analysis of On-Demand Ride-Sharing and Traffic Congestion</td>
<td>Ziru Li, Yili Hong, Zhongju Zhang</td>
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<td>Consumer Purchase Decision in Instagram Stores: The Role of Consumer Trust</td>
<td>Jasmine W.S. Che, Christy M.K. Cheung, Dimple R. Thadani</td>
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<th>CL 2</th>
<th>Queen’s 6</th>
<th>Friday, 10:00 – 11:30</th>
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<tr>
<td>The Impact of Technology-Mediated Consumption on Identity: The Case of Airbnb</td>
<td>Maria Festila, Sune Müller</td>
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<td><strong>Moral Hazards and Effects of IT-enabled Monitoring Systems in Online Labor Markets</strong></td>
<td>Chen Liang, Yili Hong, Bin Gu</td>
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<tr>
<td>Special Discussion: Research Opportunities and Challenges in the Sharing Economy</td>
<td>Izak Benbasat</td>
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**Advances in Teaching and Learning Technologies**  
Minitrack Chairs: David Spencer, Timothy Ellis, Eric Santanen

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<th>CL 3</th>
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<th>Saturday, 8:00 – 9:30</th>
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<tr>
<td>Towards a Sentiment Analyzing Discussion-board</td>
<td>Brian Thoms, Evren Eryilmaz, Glo Mercado, Benjamin Ramirez, Jose Rodriguez</td>
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<tr>
<td>Optimizing Usability Testing in the Context of a Large-Scale Software Service for Digital Textbooks</td>
<td>Margit Kastner, Bernd Simon</td>
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<tr>
<td>Social Media in Educational Practice: Faculty Present and Future Use of Social Media in Teaching</td>
<td>Marc Esteve Del Valle, Anatoliy Gruzd, Caroline Haythornthwaite, Drew Paulin, Sarah Gilbert</td>
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**Best Paper Nomination**

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<tr>
<th>CL 4</th>
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<th>Saturday, 10:00 – 11:30</th>
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<tbody>
<tr>
<td>Knowledge Management for Learning: ICT System Affordances and the Impact of Order of Use</td>
<td>Regina Collins, Starr Roxanne Hiltz, Fadi Deek</td>
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<tr>
<td>Reaching beyond the Classroom through the use of Push Notifications</td>
<td>Michael Kallookaran, Susanne Robra-Bissantz</td>
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<td>Reducing Computer Anxiety in Self-Paced Technology Training</td>
<td>Saurabh Gupta</td>
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<td>Blending Machine and Human Learning Processes</td>
<td>Kevin Crowston, Carsten Østerlund, Tae Kyoung Lee</td>
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<th>CL 5</th>
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<tr>
<td>Using Journals to Assess Non-STEM Student Learning in STEM Courses: A Case Study in Cybersecurity Education</td>
<td>Gary Kessler, Glenn Dardick, Douglas Holton</td>
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<tr>
<td>Computer Skill Acquisition: The Effects of Computer-aided Self-explanation on Knowledge Retention and Transfer</td>
<td>Tai-Yin Chi, Lorne Olfman, Dale E. Berger</td>
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<tr>
<td><strong>Microcore: A Playable Case Study for Improving Adolescents’ Argumentative Writing in a Workplace Context</strong></td>
<td>Jonathan Balzotti, Derek Hansen, Daniel Ebeling, Lauren Fine</td>
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<tr>
<th>CL 6</th>
<th>Queen’s 6</th>
<th>Saturday, 4:00 – 5:30</th>
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<tr>
<td>Prediction Method Based DRSA to Improve the Individual Knowledge Appropriation in a Collaborative Learning Environment: Case of MOOCs</td>
<td>Sarra Bouzayane, Inès Saad</td>
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<tr>
<td>Task-technology Fit Aware Expectation-Confirmation Model Towards Understanding of MOOCs Continued Usage Intention</td>
<td>Yuanxin Ouyang, Cui Tang, Wenge Rong, Long Zhang, Chuantao Yin, Zhang Xiong</td>
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<tr>
<td>Does Applying Screenshot Annotations Enhance Learning Effectiveness? The Moderating Role of Course Difficulty</td>
<td>Travis K. Huang, Eugenia Huang</td>
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<tr>
<td>Promotion of Educational Effectiveness by Translation-based Programming Language Learning Using Java and Swift</td>
<td>Juhua Li, Kazunori Sakamoto, Hironori Washizaki, Yoshiaki Fukazawa</td>
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**Minitrack Chairs:**
- **Access (or Sharing) Economy**: Bo Sophia Xiao, Eric Lim, Chee-Wee Tan
- **Advances in Teaching and Learning Technologies**: David Spencer, Timothy Ellis, Eric Santanen

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**Special Discussion**: Research Opportunities and Challenges in the Sharing Economy | Izak Benbasat
Supporting the Use of Social Media by Emergency Managers: Software Tools to Overcome Information Overload | Runqing Rao, Linda Plotnick, Roxanne Hiltz


Enablers in Crisis Information Management: A Literature Review | No-San Lee, Stefan Hirschmeier, Sven Müller, Lars Jürgen Luz

The Social Media Intelligence Analyst for Emergency Management | Robert Power, Justin Kibell

Software Tool for Semantic Resources Allocation in Humanitarian Crises | Aladdin Shamoug, Radmila Juric

A Conceptual Framework and a Suite Of Tools to support Crisis Management | Frederick Benaben, Aurelie Montarnal, Sebastien Truptil, Matthieu Lauras, Audrey Fertier, Nicolas Salatge, Sebastien Rebiere

Comparing Agent Architectures in Social Simulation: BDI Agents versus Finite-State Machines | Carole Adam, Patrick Taillandier, Julie Dugdale

Wisdom of Crowds for Reliable Discussion and Need Finding: A Case Study of Information Sharing Regarding Radiation after the Fukushima Nuclear Disaster | Yang Ishigaki, Yutaka Matsuno, Koichi Bando, Kenji Tanaka

A Review of Qualitative Comments on a Proposed Master’s degree in Emergency Management | Murray Turoff, Victor Banuls Silvera, Lili Yang

**A Risk Scenario for Small Businesses in Hurricane Sandy Type Disasters | Arthur Hendela, Murray Turoff, Starr Roxanne Hiltz, Jerry Fjermestad**
Data Science and Analytics for Collaboration
Minitrack Chairs: Lakshmi Iyer, Souren Paul, Lina Zhou
Session Chair: Atish P. Sinha

CL 13
Waikoloa 2
Friday, 8:00 – 9:30

Collaboration for Success in Crowdsourced Innovation Projects: Knowledge Creation, Team Diversity, and Tacit Coordination | Wenjun Zhou, Wangcheng Yan, Xi Zhang


Collaborative Software Performance Engineering for Enterprise Applications | Hendrik Müller, Sascha Bosse, Markus Wirth, Klaus Turowski

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

CL 14
Kohala 4
Thursday, 10:00 – 11:30

Human-Agent Negotiations: The Impact Agents’ Concession Schedule and Task Complexity on Agreements | Rustam Vahidov, Gregory Kersten, Bo Yu

Panel Discussion: 30 years of Research in Negotiation Support | Tung Bui, Mel Shakun, Michael Lewis, Katia Sycara, Gregory Kersten

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

CL 15
Water’s Edge
Friday, 10:00 – 11:30

Why I Retweet? Exploring User’s Perspective on Decision-Making of Information Spreading during Disasters | Nor Athiyah Abdullah, Dai Nishioka, Yuko Tanaka, Yuko Murayama

Orchestrating Without Partiture | Juha Knuuttila

Global Virtual Teams
Minitrack Chairs: Michael Hine, Derrick Cogburn

CL 16
Queen’s 6
Friday, 2:00 – 3:30

The Perceived Level of Collaborative Work Environment’s Effect on Creative Group Problem Solving in a Virtual and Distributed Team Environment | Karoly Bozan

Towards Genuine Virtual Collaboration: Designing the Use of Mobile Remote Presence in Offshore-Outsourced Projects | Erik Wende, Rainer Alt, Greg King

Cultural Influences on Collaborative Work in Software Engineering Teams | Fariba Fazli, Eva Alice Christiane Bittner

** Best Paper Nomination
MUX: Development of a Holistic Mobile User Experience Instrument | Soussan Djamasbi, Vance Wilson

The Agile UX Development Lifecycle: Combining Formative Usability and Agile Methods | Suzanne Kieffer, Aissa Ghouti, Benoit Macq

Using Wearable Devices for Non-invasive, Inexpensive Physiological Data Collection | James Gaskin, Jeffrey Jenkins, Thomas Meservy, Jacob Steffen, Katherine Payne


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

The Role of Information Exchange in Supply Chain Collaboration: A Case Study of a Vietnam Ship Parts Supplier | Judith Molka-Danielsen, Bich Thi Ngoc Le, Per Engelseth

**Network Structure and User Roles of a Crowdsourcing Community - The Context of Social Innovations for a Development Project | Simon Fuger, Robert Schimpf, Johann Fueller, Katja Hutter

Individual Trust Development in Business Virtual Teams: An Experimental Study | Xusen Cheng, Tingting Hou, Shixuan Fu, Jianshan Sun

An Object-oriented Workflow Modeling Schema Using Dataflow Analysis for Collaborative E-governance Platform | Jingrui Ju, Luning Liu, Yuqiang Feng

Employees’ Collaborative Use of Green Information Systems | Zhaojun Yang, Jun Sun, Yali Zhang, Ying Wang, Lisha Cao

Cross-Sector Collaboration and Information Integration in Local Government One-Stop Services Centres: The Experiences and Lessons from a Case Studies in China | Nan Zhang, Zhikui Lu, Yunyun Shou

Feedback on the Integration of a Serious Game in the Data Modeling Learning | Imed Boughzala, Olfa Chourabi, Daniel Lang, Mondher Feki


Exploring Practical Potentials of Business Simulation Games | J.B. Kim, Edward Watson

Towards a Home-based Virtual Reality Game System to Promote Exercise | Ashish Amresh, Rahul Salla
### Social and Psychological Perspectives in Collaboration Research

**Minitrack Chairs: Gert-Jan de Vreede and Triparna de Vreede**

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<tbody>
<tr>
<td>Thursday, 10:00 – 11:30</td>
<td>Kona 3</td>
<td>(Virtual) Identity Communication: Motivations and Contextual Factors</td>
<td>Sherry Thatcher, David Wilson, Susan Brown</td>
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<td>Thursday, 2:00 – 3:30</td>
<td>Kona 3</td>
<td>We’re In This Together: The Role of Team Characteristics in Enterprise Process Execution and Performance</td>
<td>Akshay Bhagwatwar, Hillol Bala, Jordan Barlow</td>
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<td>Saturday, 4:00 – 5:30</td>
<td>Queen’s 5</td>
<td><strong>Antecedents of Engagement in Community-Based Crowdsourcing</strong></td>
<td>Triparna de Vreede, Gert-Jan de Vreede, Roni Reiter-Palmon</td>
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<td>Saturday, 8:00 – 9:30</td>
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<td>The Impact of Virtual Team Consistency on Individual Performance and Perceptual Outcomes Over Time</td>
<td>Robert Fuller, Jama Summers</td>
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<tr>
<td>Friday, 4:00 – 5:30</td>
<td>Waikoloa 3</td>
<td><strong>Media Naturalness and the Ability to Predict Generosity in a Give-Some - Get-Some Interaction</strong></td>
<td>Mahdi Roghanizad, Roderick White, Derrick Neufeld</td>
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<tr>
<td>Friday, 8:00 – 9:30</td>
<td>Queen’s 5</td>
<td>Catch Me If You Can: Technological Constraints/Affordances and Mindfulness during Collaborative Police Emergency Response</td>
<td>Matthijs Verhulst, Anne-Françoise Rutkowski</td>
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**Social Media and e-Business Transformation**

**Minitrack Chairs: Christy Cheung, Matthew Lee, Christian Wagner**

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<tr>
<td>Saturday, 2:00 – 3:30</td>
<td>Queen’s 5</td>
<td>Perceived Individual Risk of Co-innovation in Collaborative Innovation Networks</td>
<td>Kaveh Abhari, Elizabeth Davidson, Bo Xiao</td>
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<td>The Roles of Transactive Memory Capability in a Social Media Environment</td>
<td>Hyo Jun Kim, Kee-Young Kwahk</td>
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**Best Paper Nomination**

### Technology Mediated Collaborations in Healthcare and Wellness Management

**Minitrack Chairs: Souren Paul, Arkalgud Ramanprasad, Nilmini Wickramasinghe**

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<tr>
<td>Thursday, 8:00 – 9:30</td>
<td>Queen’s 5</td>
<td>Design of Integral Reminder for Collaborative Appointment Management</td>
<td>Ying Wang, Francis Andoh-Baidoo</td>
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<td>E-Health: Value Proposition and Technologies Enabling Collaborative Healthcare</td>
<td>Sweta Sneha, Detmar Straub</td>
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<td>Knowledge Activation for Patient Centered Care: Bridging the Health Information Technology Divide</td>
<td>Sajda Qureshi, Cherie Noteboom</td>
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<td>Analyzing Collaborative Patient Care Solutions Using Activity Theory</td>
<td>Fabian Wiser, Carolin Durst, Nilmini Wickramasinghe</td>
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### Text Mining in Big Data Analytics

**Minitrack Chairs: Derrick Cogburn, Michael Hine**

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<tr>
<td>Thursday, 8:00 – 9:30</td>
<td>Queen’s 5</td>
<td>An Ontological Approach to Misinformation: Quickly Finding Relevant Information</td>
<td>Chelsea Hicks</td>
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<td>Modeling Twitter Engagement in Real-World Events</td>
<td>Yuheng Hu, Yili Hong</td>
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<td>Building an Environmental Sustainability Dictionary for the IT Industry</td>
<td>Qi Deng, Mike Hine, Shaobo Ji, Sujit Sur</td>
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Decision Analytics, Mobile Services, and Service Science Track (DA)
Co-Chairs: Christer Carlsson and Haluk Demirkan

Addressing Grand Challenges with Information Technology
Minitrack Chairs: Daniel Soper

DA 1  Kona 2  Thursday, 4:00 – 5:30

Forming a Dimension of Digital Human Rights: Research Agenda for the Right to be Forgotten | Chanhee Kwak, Junyeong Lee, Heeseok Lee

**Financial Decision Support System for Wind Energy - Analysis of Mexican Projects and a Support Scheme Concept | André Koukal, Jan-Hendrik Piel

Big Data and Analytics: Concepts, Methods, Techniques and Applications
Minitrack Chairs: Stephen Kaisler, Frank Armour, Alberto Espinosa

DA 2  Kona 4  Thursday, 2:00 – 3:30

Introducing Data Science to Undergraduates through Big Data: Answering Questions by Wrangling and Profiling a Yelp Dataset | Scott Jensen

Comparing Data Science Project Management Methodologies via a Controlled Experiment | Jeffrey Saltz, Ivan Shamshurin, Kevin Crowston

An Introduction to the MISD Technology | Aleksey Popov

DA 3  Kona 4  Thursday, 4:00 – 5:30

A Correlation Network Model for Structural Health Monitoring and Analyzing Safety Issues in Civil Infrastructures | Alexander Fuchsberger, Hesham Ali

Service-oriented Cost Allocation for Business Intelligence and Analytics: Who pays for BI&A? | Raphael Grytz, Artus Krohn-Grimberghe

Data Systems Fault Coping for Real-time Big Data Analytics Required Architectural Crucibles | Stephen Cohen, William H. Money

Value Oriented Big Data Strategy: Analysis & Case Study | Jonathan Arcondara, Khaled Himmi, Peiqing Guan, Wei Zhou

Business Intelligence, Analytics and Cognitive: Case Studies and Applications (COGS)
Minitrack Chairs: Sergey Belov, James Spohrer, Haluk Demirkan

DA 4  Kona 4  Thursday, 8:00 – 9:30

Special Presentation: Comparative Research on Social Risk Reduction by Smart Hazard Monitoring Sensors | Takashi Washio

**Identification of Human Factors in Aviation Incidents Using a Data Stream Approach | Donghui Shi, Jozef Zurada, Jian Guan

Modern Advanced Analytics Platforms and Predictive Models for Stock Price Forecasting: IBM Watson Analytics Case | Ilias Faizullo, Sergey Yablonsky

DA 5  Kona 4  Thursday, 10:00 – 11:30

Towards Open Smart Services Platform | Hamid Reza Motahari Nezhad, Larisa Shwartz

Overcoming Challenges to Effective Application of IT Research Results: A Framework for Encapsulating the Context and Findings of Research Studies | Degan Kettles, Uday Kulkarni, Daniel Mazzola, Robert St Louis

Fast Prototyping of the Internet of Things solutions with IBM Bluemix | Aleksey Popov, Andrey Proletarsky, Sergey Belov, Alexander Sorokin

Data Text, and Web Mining for Business Analytics
Minitrack Chairs: Dursun Delen, Enes Eryarsoy, Şadi Şeker

DA 6  Kona 4  Friday, 8:00 – 9:30

Data Integration and Predictive Analysis System for Disease Prophylaxis Madhav Erraguntla, John Freeze, Dursun Delen, Karthi Madanagopal, Ric Mayer, Jam Khojasteh

The Impact of Subjective and Objective Experience on Mobile Banking Usage: An Analytical Approach | Mousa Albashrawi, Hasan Kartal, Asil Oztekin, Luvai Motiwalla

Consumer-Oriented Tech Mining: Integrating the Consumer Perspective into Organizational Technology Intelligence - The Case of Autonomous Driving | Marc Egger, Detlef Schoder
The Impact of Content, Context, and Creator on User Engagement in Social Media Marketing | Roope Jaakonmäki, Oliver Müller Jan vom Brocke

Improving Sentiment Analysis with Document-Level Semantic Relationships from Rhetoric Discourse Structures | Joscha Märkle-Huß, Stefan Feuerriegel, Helmut Prendinger

**A Roadmap for Natural Language Processing Research in Information Systems | Dapeng Liu, Yan Li, Manoj A. Thomas**

**Decision Support for Smart City and Digital Services**
Minitrack Chairs: Wei Xu, Jian Ma, Jianshan Sun

Investigating the Relationship among Characteristics of Social Commerce, Consumers’ Trust and Trust Performance | Xusen Cheng, Xiankun Cheng, Shixuan Fu, Yiyang Bian, Xiangbin Yan

The Development of a Smart Map for Minimum “Exertion” Routing Applications | Katherine Carl Payne, Moshe Dror

Model Design and Implementation of Enterprise Credit Information Based On Data | Mining Qingyuan Xu, Qingyue Xu

Connecting Researchers with Companies for University-Industry Collaboration | Qi Wang, Jian Ma, Xiuwu Liao, Weiwei Deng, Mingyu Zhang

**Deep Learning, Ubiquitous and Toy Computing**
Minitrack Chairs: Patrick Hung, Shih-Chia Huang, Sarajane Marques Peres

Excuse Me, Do I Know You From Somewhere? Unaware Facial Recognition Using Brain-Computer Interfaces | Christopher Bellman, Miguel Vargas Martin, Ramiro Liscano, Ruba Alomari, Shane MacDonald

Effective Matrix Factorization for Online Rating Prediction | Bowen Zhou, Raymond Wong

Towards a Privacy Rule Conceptual Model for Smart Toys | Laura Rafferty, Patrick Hung, Marcelo Fantinato, Sarajane Marques Peres, Farkhund Iqbal, Sy-Yen Kuo, Shih-Chia Huang

**Digital and ICT-Enabled Services**
Minitrack Chairs: Tuure Tuunanen, Ola Henfridsson, Tilo Böhmann

**Value-In-Context with Service Innovation in the Digital Age: A Service-Dominant Logic Perspective | Martin Mikusz**

Consumer Information Services in Intercultural Tourism: An Ethnographic Study of Chinese Outbound Backpackers | Brad McKenna, Wenjie Cai, Tuure Tuunanen

Stateful SOA-conformant Services as Building Blocks for Interactive Software Systems | Roman Popp, Hermann Kaindl

**Gamification**
Minitrack Chairs: Juho Hamari, Petri Parvinen

How to Gamify? A Method for Designing Gamification | Benedikt Morschheuser, Juho Hamari, Karl Werder, Julian Abe


Twotype Multiagent Game for Egress Congestion | Anton von Schantz, Harri Ehtamo, Ilmari Pärnänen

Continuous Feedback as a Key Component of Employee Motivation Improvement - A Railway Case Study Based on the Placebo Effect | Witold Bartnik, Małgorzata Ćwil


Identifying Motivational Styles in Educational Gamification | Jared Chapman, Peter Rich

**Best Paper Nomination**
**Intelligent Decision Support and Big Data for Logistics and Supply Chain Management**
Minitrack Chairs: Stefan Voss, Hans-Jürgen Sebastian, Julia Pahl

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<td>Waikoloa 3</td>
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</table>

Quantity and Location Decision of Fresh Food Distribution Centers for a Supermarket Chain under Carbon Policies | Min Wang, Halil Ibrahim Gündüz, Michael Herty, Lindu Zhao

Big Data and its Applications in Supply Chain Management: Findings from a Delphi Study | Morten Brinch, Jan Stentoft, Jesper Kronborg Jensen

An Analysis of Digital Transformation in the History and Future of Modern Ports | Leonard Heilig, Silvia Schwarze, Stefan Voss

**Interactive Visual Decision Analytics**
Minitrack Chairs: David S. Ebert, Brian Fisher, Kelly Gaither

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**HotSketch: Drawing Police Patrol Routes among Spatiotemporal Crime Hotspots** | Alex Godwin, John Stasko

**Internet of Things: Providing Services**
Using Smart Devices, Wearables, and Quantified Self
Minitrack Chairs: Fred Riggins, Tayfun Keskin

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<tr>
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</table>
**Toward Predicting Secure Environments for Wearable Devices** | Charles Walter, Ian Riley, Xinchi He, Ethan Robards, Rose Gamble

Smart Cities: A Case Study in Waste Monitoring and Management | André Castro Lundin, Ali Gurcan Ozbek, Jakob Schuld-Jensen

**Mobile Value Services**
Minitrack Chairs: Pirkko Walden, Tomi Dahlberg, Esko Penttinen

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<th>DA 18</th>
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What Do They Mean? Using Media Richness as an Indicator for the Information Value of Stock Analyst Opinion Regarding Post-Earnings Firm Performance | Matthias Eickhoff

Possibilistic Clustering for Crisis Prediction: Systemic Risk States and Membership Degrees | Jozsef Mezei, Peter Sarlin

How The Market Can Detect Its Own Mispricing - A Sentiment Index to Detect Irrational Exuberance | Jonas Krinitz, Simon Alfano, Dirk Neumann

**Designing Effective Performance Feedback Notification Systems to Stimulate Content Contribution: Evidence from a Crowdsourcing Recipe Platform** | Ni Huang, Bin Gu, Gord Burich, Yili Hong, Chen Liang, Kanliang Wang, Dongpu Fu, Bo Yang, Wei Lan

Healthy Lottery: An Economically Viable Mobile System to Increase Compliance of Individuals with Diabetes | Riccardo Bonazzi, Francesco Cimmino, Katherine Blondon

My Wellness as a Mobile App. Identifying Wellness Types among the Young Elderly | Anna Sell, Camilla Walden, Pirkko Walden

Assimilation of Mobile Marketing in Organisations | Katarina Stanoevska-Slabeva, Vera Lenz-Kesekamp, Thomas Wozniak, Dorothea Schaffner


A Group Recommender for Investment in Microgrid Renewable Energy Sources | Hanan Mengash, Alexander Brodsky

**Assessing U.S. Travelers’ Trade-offs for Aviation Safety Objectives: A Natural Experiment | Kenneth Nguyen, Heather Rosoff, Richard John

**Open Digital Services and Platforms**
Minitrack Chairs: Juho Lindman, Matti Rossi, Virpi Tuunaninen

Parameter Tolerance in Capacity Planning Models | Ying Tat Leung, Manjunath Kamath, Juan Ma


Special Presentation: Predictive and Prescriptive Analytics for Emergency Medical Logistics | Melanie Reuter-Oppermann

Smart Data Selection and Reduction for Electric Vehicle Service Analytics | Jennifer Schoch, Philipp Staudt, Thomas Setzer

Road Condition Estimation Based on Heterogeneous Extended Floating Car Data | Kevin Laubis, Viliam Simko, Alexander Schuller, Christof Weinhardt

Generating Rental Data for Car Sharing Relocation Simulations on the Example of Station-Based One-Way Car Sharing | Alfred Benedikt Brendel, Christian Rockenkamm, Lutz Maria Kolbe

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

**A Value Proposition Development Framework for Industrial Service | Pekka Töytäri, Risto Rajala, Lucas Nilsson-Ollandt, Joona Keränen

The Role of Social Capital on Cocreating Value for Social Enterprises: The Service Dominant Logic Perspective | Nila Armelia Windasari, Fu-ren Lin, Hungwei Chen

Conceptualizing the Value Co-Destruction Process for Service Systems: Literature Review and Synthesis | Juuli Lintula, Tuure Tuunanen, Markus Salo
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<td>DA 25</td>
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<tr>
<td><strong>Overcoming Institutional and Capability Barriers to Smart Services</strong></td>
<td>Pekka Töytäri, Taiga Turunen, Maximilian Klein, Ville Eloranta, Sebastian Biehl, Risto Rajala, Esko Hakanen</td>
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<tr>
<td><strong>An Analysis of Stability of Inter-bank Loan Network: A Simulated Network Approach</strong></td>
<td>Saurav Chakraborty, Jordan Gaeta, Kaushik Dutta, Donald Berndt</td>
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<tr>
<td><strong>Beyond Educational Videogames to Educational Systems That Incorporate Videogames: A Case Study of a System for Learning about Energy</strong></td>
<td>Nick Flor, Rodrigo Arias, Meghana Dasigi, Megan Hayden, Melinda Mesibov, Keara Sweeney</td>
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<tr>
<td><strong>The Social Factory: Connecting People, Machines and Data in Manufacturing for Context-Aware Exception Escalation</strong></td>
<td>Laura Kassner, Pascal Hirmer, Matthias Wieland, Frank Steimle, Jan Königsberger, Bernhard Mitschang</td>
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<td>DA 26</td>
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<td><strong>Training IBM Watson using Automatically Generated Question-Answer Pairs</strong></td>
<td>Jangho Lee, Gyuwan Kim, Jaeyoon Yoo, Changwoo Jung, Minseok Kim, Sungroh Yoon</td>
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<tr>
<td><strong>Rebuilding Evolution: A Service Science Perspective</strong></td>
<td>Jim Spohrer, Md Abul Kalam Siddike, Youji Kohda</td>
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<td><strong>Streaming Data Analytics and Applications</strong></td>
<td>Mehmed Kantardzic, Jozef Zurada</td>
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<td>DA 27</td>
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<tr>
<td><strong>The RADStack: Open Source Lambda Architecture for Interactive Analytics</strong></td>
<td>Fangjin Yang, Gian Merlino, Nelson Ray, Xavier Léauté, Himanshu Gupta, Eric Tschetter</td>
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<tr>
<td><strong>Sliding Reservoir Approach for Delayed Labeling in Streaming Data Classification</strong></td>
<td>Hanqing Hu, Mehmed Kantardzic</td>
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**Digital and Social Media Track (DSM)**

**Co-Chairs: Kevin Crowston and Karine Nahon**

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<tr>
<td>DSM</td>
<td>Queen’s 4</td>
<td>Thursday, 8:00 – 9:30</td>
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<tr>
<td><strong>DSM: Ignite Talks</strong></td>
<td>Co-Chairs: Kevin Crowston, Karine Nahon</td>
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<td>DSM 1</td>
<td>Kona 1</td>
<td>Friday, 4:00 – 5:30</td>
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<tr>
<td><strong>Framework for Real-Time Event Detection Using Multiple Social Media Sources</strong></td>
<td>Satya Katragadda, Ryan Benton, Vijay Raghavan</td>
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<td>DSM 2</td>
<td>Queen’s 4</td>
<td>Saturday, 10:00 – 11:30</td>
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<tr>
<td><strong>Collective Intelligence and Crowds</strong></td>
<td>Co-Chairs: Pnina Fichman, Jeffrey Nickerson, Donald Steiny</td>
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<tr>
<td><strong>Unusual Spatial Patterns of Industrial Firm Locations Uncover their Social Interactions</strong></td>
<td>Guy Kelman, Eran Manes, Marco Lamieri, David Bree</td>
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**Proud to recognize the scientific contribution of the Digital and Social Media track at HICSS.**

Microsoft Research
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<th>DSM 3</th>
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<tr>
<td>Keeping it Real: From Faces and Features to Social Values in Deep Learning Algorithms on Social Media Images</td>
<td>Anja Bechmann</td>
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<td>HIV Risk on Twitter: the Ethical Dimension of Social Media Evidence-based Prevention for Vulnerable Populations</td>
<td>Nadir Weibel, Purvi Desai, Lawrence Saul, Amarnath Gupta, Susan Little</td>
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<td>Expanding Imagined Affordance with Futuretypes: Challenging Algorithmic Power with Collective 2040 Imagination</td>
<td>Lonny Avi Brooks, Andrea Saveri</td>
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<tr>
<td>The Political Economy of New Media Revisited</td>
<td>Elizabeth Van Couvering</td>
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<tr>
<td>Managing Online Trolling: From Deviant to Social and Political Trolls</td>
<td>Madelyn Rose Sanfilippo, Shengnan Yang, Pnina Fichman</td>
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<tr>
<td><strong>Incidental News: How Young People Consume News on Social Media</strong></td>
<td>Pablo Boczkowski, Eugenia Mitchelstein, Mora Matassi</td>
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**Data Analytics and Data Mining for Social Media**

Minitrack Chairs: David Yates, Jennifer Xu, Dominique Haughton, Xiangbin Yan

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<th>Queen's 4</th>
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<tr>
<td>Buzz vs. Sales: Big Social Data Analytics of Style Icon Campaigns and Fashion Designer Collaborations on H&amp;M’s Facebook Page</td>
<td>Desiree Christina Komtesse af Rosenborg, Ida Buhl-Andersen, Line Bygvrå Nilsson, Mark Philip Rebild, Raghava Rao Mukkanama, Abid Hussain, Ravi Vatrapu</td>
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<tr>
<td>Lariat: A Visual Analytics Tool for Social Media Researchers to Explore Twitter Datasets</td>
<td>Nan-Chen Chen, Michael Brooks, Rafal Kocielnik, Sungsoo (Ray) Hong, Jeff Smith, Sanny Lin, Zening Qu, Cecilia Aragon</td>
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<tr>
<td>A Domain Oriented LDA Model for Mining Product Defects from Online Customer Reviews</td>
<td>Zhilei Qiao, Xuan Zhang, Mi Zhou, Gang Alan Wang, Weiguo Fan</td>
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<td>Exploring Time Series Spectral Features in Viral Hashtags Prediction</td>
<td>Shing Doong, Daniel Chung</td>
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** Best Paper Nomination

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<th>DSM 6</th>
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<tr>
<td><strong>Birds of a Feather Talk Together: User Influence on Language Adoption</strong></td>
<td>Daniel Kersgaw, Matthew Rowe, Anastasios Noulas, Patrick Stacey</td>
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<tr>
<td>A Large-scale Analysis of the Marketplace Characteristics in Fiverr</td>
<td>Suman Kalyan Maity, Chandra Bhanu Jha, Avinash Kumar, Ayan Sengupta, Madhur Modi, Animesh Mukherjee</td>
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<tr>
<td>A Peer-Based Approach on Analyzing Hacked Twitter Accounts</td>
<td>Benjamin Murauer, Eva Zangerle, Günther Specht</td>
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<tr>
<td>Media Professionals’ Opinions about Interactive Visualizations of Political Polarization during Brazilian Presidential Campaigns on Twitter</td>
<td>Caroline Queiroz Santos, Holisson Cunha, Carlos Teixeira, Daniele Ramos de Souza, Roberto Tietzmann, Isabel Manussour, Milene Selbach Silveira, Marcelo Träsel, Duncan Dubugras Alcoba Ruiz, Rodrigo Barros</td>
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**Decision Making in Online Social Networks**

Minitrack Chairs: Valeria Sadovykh, David Sundaram

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<th>DSM 7</th>
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<tr>
<td>The Power &amp; Perspective of Mommy Bloggers: Formative Research with Social Media Opinion Leaders about HPV Vaccination</td>
<td>Amelia Burke-Garcia, Corinne N. Berry, Gary L. Kreps, Kevin B. Wright</td>
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<td><strong>Guiding the Herd: The Effect of Reference Groups in Crowdfunding Decision Making</strong></td>
<td>Yu Lei, Ali Alper Yayla, Surinder Kahai</td>
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<tr>
<td>Decision Making Processes in Online Social Networks: A Comparative Analysis of Health and Financial Online Social Networks</td>
<td>Valeria Sadovykh, David Sundaram</td>
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<tr>
<td>Making Decisions about Self-Disclosure in Online Social Networks</td>
<td>Alireza Heravi, Deepa Mani, Kim-Kwang Raymond Choo, Sameera Mubarak</td>
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** Best Paper Nomination
Spanning the Boundary: Measuring the Realized and Lifecycle Impact of Distinct Boundary Spanning Activities on Project Success and Completion | Wietske Van Osch, Charles Steinfield, Yanjie Zhao
Moderation of Enterprise Social Networks - A Literature Review from a Corporate Perspective | Ferry Nolte, Nadine Guhr, Michael H. Breitner
**Exploring The Impact Of Universities’ Digital Advancement On Students’ Perceptions – A Driver of Reputation and WOM behavior? | Delphine Colin, Sarah Mahr
Entrepreneurs’ Activities on Social Media and Venture Financing | Fang (Florence) Wang (Wong), Jason Kuruzovich, Yingda Lu

**Digital Location**
Minitrack Chairs: Jim Thatcher, Britta Ricker
Volunteered Drone Imagery: Challenges and Constraints to the Development of an Open Shared Image Repository | Peter Johnson, Britta Ricker, Sara Harrison
**Understanding the Valuation of Location Privacy: A Crowdsourcing-Based Approach | Maija Poikela, Eran Toch

**Games and Gaming**
Minitrack Chairs: Nathaniel Poor, Mia Consalvo
Playing along and Playing for on Twitch: Livestreaming from Tandem Play to Performance | Rainforest Scully-Blaker, Jason Begy, Mia Consalvo, Sarah Ganzon
When Code Governs Community | Yubo Kou, Xinning Gui
“Something We Loved That Was Taken Away”: Community and Neoliberalism in World of Warcraft | Nicole Crenshaw, Jaclyn LaMorte, Bonnie Nardi
**Network Analysis of Digital and Social Media**

**Minitrack Chairs: Devan Rosen, George Barnett**

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**Applications of Cohesive Subgraph Detection Algorithms to Analyzing Socio-Technical Networks** | Dan Suthers

Examining Collective Memory Building in Wikipedia: A multilevel network approach | Yu Xu, Yusi Liu, Li Qi

Cross-National Proximity in Online Social Network and Protest Diffusion: An Event History Analysis of Arab Spring | K. Hazel Kwon, Jeff Hemsley

Facebook Pages’ Strength of Ties and Segregation of Engaged Users: An Examination of the Hierarchical Model of Cyberbalkanization | Chung-hong Chan, King-wa Fu

**Persistent Conversation**

**Minitrack Chairs: Sheizaf Rafaeli, Yoram Kalman, Carmel Kent**

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**Politician’s Strategic Impression Management on Instagram** | Younbo Jung, Ashley Tay, Terence Hong, Judith Ho, Yan Hui Goh

Is Aggression Contagious Online? A Case of Swearing on Donald Trump’s Campaign Videos on YouTube | K. Hazel Kwon, Anatoliy Gruzd

“Nice Picture Comment!” Graphicons in Facebook Comment Threads | Susan Herring, Ashley Dainas

Meetings as Persistent Conversations that use ICTs and Face-to-Face to Build Social Capital | Keri Stephens, Ignacio Cruz, Eric Waters, Yaguang Zhu

**Social Media: Culture, Identity, and Inclusion**

**Minitrack Chairs: Shahper Vodanovich, Nanette Levinson, Amanda Menking**

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Social Media Usage and Cultural Dimensions: An Empirical Investigation | Majid Dadgar, Joseph Vithayathil, John Kalu Osiri

Mapping Articles on China in Wikipedia: An Inter-Language Semantic Network Analysis | Ke Jiang, Grace A. Benefield, Junfei Yang, George A. Barnett

Detecting Offensive Statements towards Foreigners in Social Media | Uwe Bretschneider, Ralf Peters

**Best Paper Nomination**
Secure Spaces & Free Speech: Effects of Moderation Policy on Structures of Online Forum Discussions | Anna Gibson
**How Do You Turn a Mobile Device into a Political Tool?** | Amelia Acker, Brian Beaton
Resisting the Censorship Infrastructure in China | Yubo Kou, Yong Ming Kow, Xinning Gui

**Electronic Government Track (EG)**
Co-Chairs: Hans Joehen Scholl and Lemuria Carter

**Celebratory Session**
Co-Chairs: Hans Joehen Scholl and Lemuria Carter

Past and Present of the EGOV community and the HICSS EGOV Track | Hans Joehen Scholl
E-government Research: Past, Present, and Future | John Carlo Bertot
The Future of the EGOV community and the HICSS EGOV Track | Lemuria Carter

Cybersecurity and Government
Minitrack Chairs: Greg White, Wm. Arthur Conklin, Keith B. Harrison

**Securing Birth Certificate Documents with DNA Profiles** | Mark Tannian, Christina Schweikert, Ying Liu
An Optimization Framework for Generalized Relevance Learning Vector Quantization with Application to Z-Wave Device Fingerprinting | Trevor Bihl, Michael Temple, Kenneth Bauer

State and Community Information Sharing and Analysis Organizations | Gregory White, Keith Harrison
Proper Incentives for Proper IT security Management - A System Dynamics Approach | Jose J. Gonzalez, Denis Trcek
An Evolution Roadmap for Community Cyber Security Information Sharing Maturity Model | Wanying Zhao, Gregory White

**Emerging Topics in Electronic Government**
Minitrack Chairs: Theresa Pardo, Elin Wihlborg, Lei Zhang

The Tale of e-Government: A Review of the Stories that Have Been Told So Far and What is Yet to Come | Nadine Ogonek
The Impact of Social Business Process Management on Policy-making in e-Government | Yiwei Gong, Marijn Janssen
Browse or Brush? An Exploration of Citizen-Government Interaction in the Municipal Realm | Lisa Schmidthuber, Dennis Hilgers

Investigating the Potential of a Dashboard for Monitoring U.S. Federal Website Accessibility | Jonathan Lazar, Victoria Williams, Jon Gunderson, Thomas Foltz
New Ways and Actors When Diplomacy Goes Digital - The e-Diplomacy Campaign “Midwives4All” | Elin Wihlborg, Anna Norstedt
One Stop Government: Stalled Vision or a Matter of Design? – Empirical Findings from Social Services in Germany | Tino Schuppan, Stefanie Köhl

Informational Challenges in Early Disaster Response: The Massive Oso/SR530 Landslide 2014 as Case in Point | Hans J Scholl, Stephanie Ballard, Sarah Carnes, Andy Herman, Neal Parker
Resilience in the Gaze of Ebola: Analysis from a Developing Country | Matthew Waritay Guah

Exploring Effective Ecosystems in Disaster Management: Case studies of Japan and Nepal | Mihoko Sakurai, Devinder Thapa
**EG 10** Kohala 1 Saturday, 4:00 – 5:30

An Analysis of Aid Information Management Systems (AIMS) in Developing Countries: Explaining the Last Two Decades | Kyung Ryul Park

Toward an Assessment of Cultural Relativity and Impacts of ICT Interventions: Assessing ICT4D at the National Level | Kweku-Muata Osei-Bryson, Lemuria Carter

Facebook’s “Free Basics” and Implications for Development: IT Identity and Social Capital | Moonjung Yim, Ricardo Gomez, Michelle Carter

---

**Government Services and Information**
Minitrack Chairs: Ludwig Christian Schaupp, Jay Kesan, Luis Luna-Reyes

---

**EG 12** Kohala 2 Saturday, 2:00 – 3:30

**Graph Based Framework for Malicious Insider Threat Detection** | Anagi Gamachchi, Li Sun, Serdar Boztas

Insider Threats in Emerging Mobility-as-a-Service Scenarios | Andrea Melis, Marco Prandini, Saverio Giallorenzo, Franco Callegati

Insider Threat Detection in PRODIGAL | Henry Goldberg, William Young, Matthew Reardon, Brian Phillips, Ted Senator

---

**Open Data, Information Processing, and Datification in Government**
Minitrack Chairs: Marijn Janssen, Yannis Charalabidis, Helmut Krcmar

---

**EG 1** Kohala 1 Saturday, 2:00 – 3:30

Understanding ICT in ICT4D: An Affordance Perspective | Devinder Thapa, Mathias Hatakka

Understanding the Role of Technology in the Development of Micro-Enterprises: Concepts to Study in Making a Better World | Sajda Qureshi, Jie Xiong

The Power of Participatory Photography in ICTD Programs: Freedom to Explore Beyond Images | Laura Gomez, Ricardo Gomez, Sara Vannini

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**EG 9** Kohala 1 Saturday, 2:00 – 3:30

Understanding ICT in ICT4D: An Affordance Perspective | Devinder Thapa, Mathias Hatakka

Understanding the Role of Technology in the Development of Micro-Enterprises: Concepts to Study in Making a Better World | Sajda Qureshi, Jie Xiong

The Power of Participatory Photography in ICTD Programs: Freedom to Explore Beyond Images | Laura Gomez, Ricardo Gomez, Sara Vannini

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**EG 8** Kohala 1 Saturday, 10:00 – 11:30

**The Same but Still Different: Forms in e-Government** | Hendrik Scholta


e-Government for all - Norm-critical Perspectives and Public Values in Digitalization | Elin Wihlborg, Karin Hedström, Hannu Larsson

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**EG 7** Kohala 1 Saturday, 8:00 – 9:30

Promoting Resiliency in Emergency Communication Networks: A Network Interdiction Modeling Approach | Michael Bartolacci, Stanko Dimitrov, Larry LeBlanc


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**EG 6** Kohala 1 Friday, 10:00 – 11:30

Promoting Resiliency in Emergency Communication Networks: A Network Interdiction Modeling Approach | Michael Bartolacci, Stanko Dimitrov, Larry LeBlanc

The Role of Information Quality in Healthcare Organizations: A Multi-Disciplinary Literature Review | Geir Inge Hausvik

**Is Organic Labelling Enough? Information Disclosure as Policy Instrument to Empower Consumer Choices | Jing Zhang, Lin

Understanding Datafication Effects of Open Government Information Systems - A Contemporary Systems Thinking Approach | Olivera Marjanovic, Dubravka Cecez-Kecmanovic

**Participation, Crowdsourcing, Co-Creation, and Innovation in Open Government**
Minitrack Chairs: Mitch Cochran, John Carlo Bertot, Scott Robertson


Shedding Light on Participation in Open Government Arenas: Determinants of Platform Activity of Web and App Users | Lisa Schmidhuber, Dennis Hilgers, Thomas Gegenhuber

Crowdsourcing Design: A Synthesis of Literatures across Disciplines | Helen K. Liu

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

**Public-Private Collaboration in the Emergence of a National Electronic Identification Policy: The Case of NemID in Denmark | Rony Medaglia, Jonas Hedman, Ben Eaton


Big Data and Evidence-Driven Decision-Making: Analyzing the Practices of Large and Mid-Sized U.S. Cities | Alfred Ho

**Challenges with Smart Cities Initiatives - A Municipal Decision Makers’ Perspective | Paul Pierce, Bo Andersson

Towards Smarter Cities: Linking Human Mobility and Energy Use Fluctuations across Building Types | Neda Mohammadi, John Taylor, Yan Wang

Informational Urbanism: A Conceptual Framework of Smart Cities | Julia Barth, Kaja Fietkiewicz, Julia Gremm, Sarah Hartmann, Aylin Ilhan, Agnes Mainka, Christine Meschede, Wolfgang Stock

**Predicting Citizens Acceptance of Government-led e-Participation Initiatives through Social Media: A Theoretical Model | Ayman Alarabiat, Delfina Sá Soares, Elsa Estevez

Social Media and Absorptive Capacity of Greek Government Agencies | Euripidis Loukis, Marinos Themistocleous, Efthymia Nikolaou, Marina Fragkiskou

Social Media Use for Decision Making Process in Educational Settings: The Greek Case for Leadership’s Views and Attitude in Secondary and Tertiary Education | Maria Sideri, Ariadni Filippopoulou, George Rouvalis, Christos Kalloniatis, Stefanos Gritzalis

**Increasing Policy Success through the Use of Social Media Cross-Channels for Citizen Political Engagement | Christopher Reddick, Akemi Takeoka Chatfield, Uuf Brajawidagda

Europe in the Shadow of Financial Crisis: Policy Making via Stance Classification | Lefkothea Spiliotopoulou, Dimitrios Damopoulos, Yannis Charalabidis, Manolis Maragoudakis, Stefanos Gritzalis
Optimal Electricity Pricing for Societal Infrastructure Systems
Mahnoosh Alizadeh, Hoi-to Wai, Andrea Goldsmith, Anna Scaglione

Learning to Shift Thermostatically Controlled Loads
Antoine Lesage-Landry, Joshua A. Taylor

Coordinating Heterogeneous Distributed Energy Resources for Provision of Frequency Regulation Services
Justin Hughes, Alejandro Dominguez-Garcia, Kameshwar Poolla

Distributed Energy Resources: New Markets and New Products
Richard Tabors, Michael Caramanis, Eli Ntakou, Geoffrey Parker, Marshall Van Alstyne, Paul Centolella, Rick Hornby

DANE Trusted Email for Supply Chain Management
Joseph Gersch, Dan Massey, Scott Rose

**A Structured Analysis of SQL Injection Runtime Mitigation Techniques
Stu Steiner, Daniel Conte de Leon, Jim Alves-Foss

Reverse Engineering Integrated Circuits Using Finite State Machine Analysis
Jessica Smith, Kiri Oler, Carl Miller, David Manz

Towards a Cyber Defense Framework for SCADA Systems Based on Power Consumption Monitoring
Jarilyn Hernández Jiménez, Qian Chen, Jeffrey Nichols, Chelsea Calhoun, Summer Sykes

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

Older Adults Adoption, Use and Diffusion of E-Government Services in Saudi Arabia, Hail City: A Quantitative Study
Adel Alfalah, Jyoti Choudrie, Neil Spencer

The Role of Contextual Factors in the Influence of ICT on Street-Level Discretion
Peter André Busch

Information Technology and Government Research: A Brief History
Frank Bannister, Åke Grönlund

Assessing the Role of Executive Involvement and Information Needs as Socio-Technical Determinants of Governance in IIS Success
Felippe Cronemberger, Djoko Sigit Sayogo, J. Ramon Gil-Garcia

Contextual Components of an Enterprise Architecture Framework for Pan-European e-Government Services
Ansgar Mondorf, Maria Wimmer

Exploring IT-Enabled Public Sector Innovation in the U.S. States
James Denford, Gregory Dawson, Kevin Desouza

** Best Paper Nomination

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

Integrating Distributed or Renewable Resources
Minitrack Chair: Judy Cardell

Renewables and Distributed Energy Resources
Session Chair: Charlie Smith

ES 1
King's 2
Thursday, 8:00 – 9:30

Optimal Electricity Pricing for Societal Infrastructure Systems
Mahnoosh Alizadeh, Hoi-to Wai, Andrea Goldsmith, Anna Scaglione

Learning to Shift Thermostatically Controlled Loads
Antoine Lesage-Landry, Joshua A. Taylor

Coordinating Heterogeneous Distributed Energy Resources for Provision of Frequency Regulation Services
Justin Hughes, Alejandro Dominguez-Garcia, Kameshwar Poolla

Distributed Energy Resources: New Markets and New Products
Richard Tabors, Michael Caramanis, Eli Ntakou, Geoffrey Parker, Marshall Van Alstyne, Paul Centolella, Rick Hornby

Demand Response, Microgrids, and Storage
Session Chair: Ward Jewell

ES 2
King's 2
Friday, 2:00 – 3:30

Impact of Short-Term Variations in the Generation Output of Geographically Dispersed PV Systems
Miroslav M. Begovic, Insu Kim, Branislav Vidakovic, Petar Djuric, Vladimir Jeremic

Impact of Uncertainty on Wind Power Curtailment Estimation
Joseph Dillon, Mark O’Malley

The Impact of Distributed Energy Resources on the Bulk Power System: A Deeper Dive
Michael Birk, Richard Tabors

A Vision for Co-optimized T&D System Interaction with Renewables and Demand Response
Lindsay Anderson, Luckny Zephyr, Judy Cardell
Can Capacity Markets Be Designed by Democracy? | Seth Blumsack, Kyungjin Yoo, Nicholas Johnson

The Case for a Simple Two-Sided Electricity Market | Alberto Lamadrid, Wooyoung Jeon, Hao Lu, Tim Mount

Electric Vehicle Storage Management in Operating Reserve Auctions | Micha Kahlen, Wolfgang Ketter, Alok Gupta

Air-Pollution Impact of Transmission Line Capacity Expansions in Power Systems | Enzo Sauma, Julio González

An Enhanced Security-Constrained Unit Commitment Model with Reserve Response Set Policies | Nan Li, Nikita Singhal, Kory Hedman

Power System State Estimation and Bad Data Detection by Means of Conic Relaxation | Ramtin Madani, Javad Lavaei, Ross Baldick, Alper Atamtürk

A New Distributed Optimization for Community Microgrids Scheduling | Guodong Liu, Michael Starke, Bailu Xiao, Xiaohu Zhang, Kevin Tomsovic

Locational Marginal Pricing of Natural Gas Subject to Engineering Constraints | Alex Rudkevich, Anatoly Zlotnik

Source Location of Forced Oscillations Using Synchrophasor and SCADA Data | James OBrien, Tianying Wu, Vaithianathan Venkatasubramanian, Hongming Zhang

Optimal Multisine Probing Signal Design for Power System Electromechanical Mode Estimation | Vedran Vedran Perić, Xavier Bombois, Luigi Vanfretti

Breaker to Control Center Integration & Automation: Protection, Control, Operation & Optimization | Sakis Meliopoulos, George Cokkinides, Evangelos Farantatos, Paul Myrda

**Demand Dispatch with Heterogeneous Intelligent Loads | Joel Mathias, Ana Busic, Sean Meyn

Parameter Sensitivity and Dependency Analysis for the WECC Dynamic Composite Load Model | Kaiqing Zhang, Siming Guo, Hao Zhu

On the Scaling Property of Power Grids | Zhifang Wang, Seyyed Hamid Elyas


Resilent Networks
Minitrack Chair: Jeffery Dagle

Data Analytics and Decision Support
Session Chair: Le Xie
Automated Anomaly Detection in Distribution Grids Using uPMU Measurements | Mahdi Jamei, Anna Scaglione, Ciaran Roberts, Emma Stewart, Sean Peisert, Chuck McParland, Alex McEachern

Online Detection of False Data Injection Attacks to Synchronized Measurements: A Data-Driven Approach | Meng Wu, Le Xie

The Use of System in the Loop, Hardware in the Loop, and Co-modeling of Cyber-Physical Systems in Developing and Evaluating New Smart Grid Solutions | Mladen Kezunovic, Ahad Esmailian, Manimaran Govindarasu, Ali Mehrizi-Sani

**Probabilistic Forecasting and Simulation of Electricity Markets via Online Dictionary Learning | Weisi Deng, Yuting Ji, Lang Tong**


Community Health Workers as Innovators: Methods and Results from a Tele-Education Pilot for Community Health Workers in Detroit, Michigan | Tyler Prentiss, Ilyssa Tamler, Alex Plum, Dana Parke, John Zervos, Mohan Tanniru, Michele Harrison Sears, Monica White, Kimberlydawn Wisdom, Linda Kaljee

Data Visualization on Global Trends on Cancer Incidence An Application of IBM Watson Analytics | Kelvin KF Tsoi, Felix CH Chan, Hoyee W Hirai, Gary KS Leung, Yong-Hong Kuo, Samson Tai, Helen ML Meng
User Perceptions and Expectations of the Personlly Controlled Electronic Health Record (PCEHR): A Case Study of Australia’s e-health Solution | Imran Muhammed, Nilmini Wickramasinghe

Physician’s Use of Mandatory Information Systems: An Exploratory Research in German Hospitals | Heiko Gewald, Corinna Gewald

“Focus on the Good” – Participant Perspectives after Engaging in an Online Pain Self-Management Program | Marian Wilson, Michele Shaw

Patients’ Resistance towards Health Information Technology: A Perspective of the Dual Factor Model of IT Usage | Bahae Samhan

Can Information Availability Increase Patient Compliance? Mitigating Uncertainty Perceptions in the Provider-Patient Relationship | Karoly Bozan

Stakeholder Contradictions in Early Stages of eHealth Efforts | Kirsti Askedal, Leif Skiftenes Flak

**Impacts of Stress, Satisfaction and Behavioral Intention on Continued Usage: Evidence from Physicians Transitioning to a New Drug Management System | Rola El Halabieh, Anne Beaudry, Robyn Tamblyn

How Do Features of Electronic Health Records Impact Prescription of Nicotine Replacement Therapy? | Thomas English, Daniel Amante, Erin Borglund, Ariana Kamberi, Rajani Sadasivam, Rebecca Kinney, Thomas Houston

Mining for Social Skills: Minecraft in Home and Therapy for Neurodiverse Youth | Annuksa Zolyomi, Marc Schmalz

Does Personality Matter When We Are Sick?: An Empirical Study of the Role of Personality Traits and Health Emotion in Healthcare Technology Adoption Decision | Mohammed Sajedur Rahman

Sorting out EHR Adoption and Assimilation in the Meaningful Use Incentive Program in Hawaii | Kelly Holden, Elizabeth Davidson

Suitability of Fast Healthcare Interoperability Resources (FHIR) for Wellness Data | Sarita Pais, Dave Parry, Yunfeng Huang

A Sensor-based Learning Public Health System | Robert Steele, Andrew Clarke

Personalized Drug Administration to Patients with Parkinson’s Disease: Manipulating Sensor Generated Data in Android Environments | Klemen Bravhar, Radmila Juric

Virtual Articulator - Aid Simulator at Diagnosis, Pre-Surgical Planning and Monitoring of Bucomaxilofacial Treatment | Marta Becker Villamil, Eduardo Garcia

Architecture Enabling Service-oriented Digital Biobanks | Jarkko Hyysalo, Anja Keskinarkaus, Gavin Harper, Jaakko Sauvola

**Key Performance Indicators across the Perioperative Process: Holistic Opportunities for Improvement via Business Process Management | Jim Ryan, Barbara Doster, Sandra Daily, Carmen Lewis


**The Transformative Role of Telemedicine on Coordination: A Practice Approach | Julien Meyer, Guy Pare

Towards Designing an Assistant for Semi-Automatic EMS Dispatching | Melanie Reuter-Oppermann, Stefan Morana, Peter Hottum

Building Healthier Communities: Value Co-Creation within the Chronic Care Model for Rural Under-Resourced Areas | Christina Higa, Elizabeth Davidson
Bring Your Own Mobile Device (BYOD) to the Hospital: Layered Boundary Barriers and Divergent Boundary Management Strategies | Keri Stephens, Yaguang Zhu, Millie Harrison, Meena Iyer, Terrie Hairston, John Luk

Challenges to Aligning Coordination Technology with Organizations, People, and Processes in Healthcare | Susan Sherer, Chad Meyerhoefer, Donald Levick

Mobile Apps and Wearables for Health Management, Analytics, and Decision Making
Minitrack Chairs: Freimut Bodendorf, Nilmini Wickramasinghe, Tuan Huy Ma

Analyzing Affordances of Digital Occupational Health Systems | Maedeh Yassaee, Robert Winter

The Adoption of Wearables for a Healthy Lifestyle: Can Gamification Help? | Ton Spil, Ali Sunyaev, Scott Thiebes, Rolf Van Baalen

SlipBuddy: A Mobile Health Intervention to Prevent Overeating | Bengisu Tulu, Carolina Ruiz, Joshua Allard, Joseph Acheson, Andrew Busch, Andrew Roskuski, Gage Heeringa, Victor Jaskula, Jessica Oleski, Sherry Pagoto

The Role of Fitbits in Corporate Wellness Programs: Does Step Count Matter? | Laurie Giddens, Dorothy Leidner, Ester Gonzalez

How Do Patients Expect Apps to Provide Drug Information? | Anton Grube, Tobias Dehling, Ali Sunyaev

i3DermoscopyApp: Hacking Melanoma thanks to IoT technologies | Giuseppe Di Leo, Consolatina Liguori, Vincenzo Paciello, Antonio Pietrosanto, Paolo Sommella

Mobile Stress Recognition and Relaxation Support with SmartCoping: User-Adaptive Interpretation of Physiological Stress Parameters | Ulrich Reimer, Emanuele Laurenzi, Edith Maier, Tom Ulmer

**A Framework for Evaluating the Tension between Sharing and Protecting Health Information | Chad Anderson, Richard Baskerville, Mala Kaul

Attack-Graph Threat Modeling Assessment of Ambulatory Medical Devices | Patrick Luckett, Jeffrey McDonald, William Glisson

Towards Privacy-Aware Research and Development in Wearable Health | Michelle De Mooy, Shelten Yuen

Seniors’ Use of Health Information Technology
Minitrack Chairs: Heiko Gewald, Wendy Currie

Older Adults’ Use of Online Health Information - Do They Even Try? | Robert Rockmann, Heiko Gewald

How to Motivate Adults to Check for Alzheimer’s Disease (AD) Using Three Types of Triggers | Sarah Alismail, Hind Bitar, Swati Ramani

Impact of serious games on health and well-being of elderly: a systematic review | Thi Thanh Hai Nguyen, Diana Ishmatova, Tommi Tapanainen, Tapani N. Liukkonen, Niina Katajapuu, Tuomas Makila, Mika Luimula

Are Notifications a Challenge for Older People?: A Study Comparing Two Types of Notifications | Iyubanit Rodríguez, Carolina Fuentes, Valeria Herskovic, José A. Pino

Elderly’s Perception about The Value of Assistive Technologies for their Daily Living: Impacting Factors and Theoretical Support | Suchada Vichitvanichphong, Amir Talaei-Khoei, Donald Kerr

Towards your Parents’ Social Network Platform: Design of a User Interface for the Age of Retirement | Friederike Boll, Philipp Brune, Heiko Gewald

Telemonitoring for Seniors with Chronic Heart Failure: Patient Self-Care, Empowerment, and Adoption Factors | Mirou Jaana, Haitham Tamim, Heather Sherrard, Guy Pare

** Best Paper Nomination
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<td>HC 16</td>
<td>King’s 1</td>
<td>Thursday, 2:00 – 3:30</td>
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<tr>
<td>Social Media in Healthcare</td>
<td>Valerie Gamache-OLeary, Gerald Grant</td>
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<td>Crowd-Sourced Focus Groups on Twitter: 140 Characters of Research Insight</td>
<td>Peter R. Chai, Rochelle K. Rosen, Dana M. Lewis, Megan L. Ranney, Edward W. Boyer</td>
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<tr>
<td>Motor Neurone Disease (MND) and Amyotrophic Lateral Sclerosis (ALS): Social Media Communication on Selected #MND and #ALS Tagged Tweets</td>
<td>Bronwyn Hemsley, Stuart Palmer, Wendy Goonan, Stephen Dann</td>
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<td>HC 17</td>
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<td><strong>The Feasibility of Incentivizing Participation in an Online Social Network Weight Loss Program</strong></td>
<td>Sherry Pagoto, Molly Waring, Effie Olendzki, Jessica Oleski, Christine May, Martinus Evans</td>
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<td>Assessing Drinking Norms from Attending Drinking Events and Social Network Site Use</td>
<td>Jian Rui</td>
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<td>Exploring Dynamics of Facebook Health Support Groups: a Leadership Perspective</td>
<td>Rosta Farzan, Charles Jonassaint</td>
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<td>HC 18</td>
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<td>Simplifying Fitness Games for Users with Learning Disabilities</td>
<td>Liu Liu, Patrick Stacey, Monideepa Tarafdar, Nikolaos Kourentzes</td>
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<td>“I don’t bother with the phone!”: Feeling Closer to Physician using Secure Messaging</td>
<td>Yunan Chen, Charlotte Tang, Victoria Doung, Victor Ngo, Yang Huang, John Mattison</td>
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<td>HC 19</td>
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<td>Towards Patient-oriented Design: A Case of the Egyptian Private Outpatient Clinics</td>
<td>Mahmoud Heshmat, Noha Mostafa, Jaehyun Park</td>
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<td><strong>Effective Use of User Interface and User Experience in an mHealth Application</strong></td>
<td>Wonchan Choi, Bengisu Tulu</td>
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**Social Media and Healthcare Technology**
Minitrack Chairs: Beth Bock, Rochelle Rosen

**User Experience (UX) in Information Systems (IS) for Health and Wellness**
Minitrack Chairs: Rich Burkhard, Ann Fruhling, Soussan Djamasbi

**Internet and the Digital Economy**
Co-Chairs: David King and Alan Dennis

**Customer Analytics and Data-Led Omnichannel Commerce**
Minitrack Chairs: Petri Parvinen, Maurits Kaptein, Essi Pöyry, Juho Hamari

**Electronic Marketing**
Minitrack Chairs: Bruce Weinberg, Ajit Kambil, Lenita Davis
**Usage of Social Media Systems in Customer Service Strategies** | Alexander Rossmann, Tim Wilke, Gerald Steiger

Consumers’ Sentiments and Popularity of Brand Posts in Social Media: The Moderating Role of Up-votes | Hamid Khobzi, Raymond Yiu Keung Lau, Terence Chun-Ho Cheung

**Achieving More by Saying Less? On the Moderating Effect of Information Cues in Paid Search** | Darius Schlangenotto, Dennis Kundisch

**Impression Effect vs. Click-through Effect: Mechanism Design of Online Advertising** | Xiang Zou, Ruhai Wu, Weijun Zhong

Online Search Behavior in the Air Travel Market: Reconsidering the Consideration Set and Customer Journey Concepts | Julia A Jacobs, Stefan Klein, Christopher P Holland, Maximilian Benning

Membership Free Shipping Programs: Effect on Competition and Optimality of Member Fees | Zhong Wen, Lihui Lin

Complimentary Return-Freight Insurance as Quality Signals: A New Return Policy in E-commerce | Shidao Geng, Wenli Li, Hao Chen


**Cultural Differences between Germany and the United States in Landing Page Design** | Marion Hoesselbarth, Daniel Neuß, Ina Eicholt, Axel Winkelmann

Factors that Impact Consumers’ Intention to Shop on Foreign Online Stores | Shiu-li Huang, Ya-chu Chang

Conducting Research in a Developing Country: A Reflection-in-Action Perspective | Debra Burleson, Wallace Chipidza

**Seeing the Forest and the Trees: A Meta-Analysis of Information Security Policy Compliance Literature** | W. Alec Cram, Jeffrey Proudfoot, John D’Arcy

Information Privacy Awareness (IPA): A Review of the Use, Definition and Measurement of IPA | John Correia, Deborah Compeau

**Anger or Fear? Effects of Discrete Emotions on Deviant Security Behavior** | Feng Xu, Xin Luo, Carol Hsu

The Mobile Privacy-Security Knowledge Gap Model: Understanding Behaviors | Robert E. Crossler, France Bélanger

Institutional Violence Complaints in Argentina: A Privacy Study | Jorge Roa, Pablo Villarreal, Marcelo Fantinato, Patrick C. K. Hung, Laura Rafferty

Can Privacy and Security Be Friends? A Cultural Framework to Differentiate Security and Privacy Behaviors on Online Social Networks | Ersin Dincelli, Sanjay Goel

Insider Misuse Identification Using Transparent Biometrics | Nathan Clarke, Fudong Li, Abdulrahman Alruban, Steven Furnell

So Much Promise, So Little Use: What is Stopping Home End-Users from Using Password Manager Applications? | Salvatore Aurigemma, Thomas Mattson, Lori Leonard

Special Discussion: Not quite dead yet: password authentication revisited | Steven Furnell, Robert E. Crossler, and Sanjay Goel
The Influence of Perceived Belonging on Massively Multiplayer Online Role-Playing Games | Claus-Peter H. Ernst

**If You Let Them Build It, They Will Stay! An Empirical Study of Add-on Content and User Engagement | Irfan Kanat, Yili Hong, Bin Gu, Raghu Santanam

**Social Shopping: The Good, the Bad and the Ugly**
Minitrack Chairs: Gabrielle Peko, Shahper Vodanovich, David Sundaram

Deal or No Deal? - Assessing the Daily Deal Shopper | Bettina Beurer-Zuellig, Roger Seiler

**Sharing, Giving or Reselling: An Economic Analysis | HuiHui Chi, Wei Zhou

Converting Pirates through Participative Schemes for Digital Goods: Exploring “Pay What You Want” and Persuasive Computing in Online Music | Divinus Oppong-Tawiah, Genevieve Bassellier

Social Media Usage and Shopping Preferences: an Empirical Investigation | Joseph Vithayathil, Majid Dadgar, John Osiri

The Diffusions, Impacts, Adoption and Usage of ICTs upon Society
Minitrack Chairs: Jyoti Choudrie, Sherah Kurnia, Shahper Vodanovich

Inclusive Innovation in the Private Sector: The Case of East African Tech Start-Ups | Kari Koskinen

**Geographic Patterns and Socio-Economic Influences on Mobile Internet Access and Use in United States Counties | Avijit Sarkar, James Pick, Greg Moss

The Influence of Situation-Dependent Factors on Mobile Shopping Usage | Larissa Wolf, Markus Bick, Tyge-F. Kummer

A Meta-Analysis of Enjoyment Effect on Technology Acceptance: The Moderating Role of Technology Conventionality | Nour El Shamy, Khaled Hassanein

Toward the Development of a Maturity Model for Digitalization within the Manufacturing Industry’s Supply Chain | Christoph Klötzer, Alexander Pflaum

The Impact of Digitization on Product Offerings: Using Direct Digital Manufacturing in the Supply Chain | David Swanson

**Digital Supply Chain Transformation toward Blockchain Integration | Kari Korpela, Jukka Hallikas, Tomi Dahlberg

Examining Drivers of Consumer Returns in E-Tailing with Real Shop Data | Bjoern Asdecker, David Karl, Eric Sucky

Toward Understanding the Dynamics of Bidder Behavior in Continuous Combinatorial Auctions: Agent-Based Simulation Approach | Ali Mahdavi Adeli, Gediminas Adomavicius, Alok Gupta

How Questions and Answers Shape Online Marketplaces: The case of Amazon Answer | Wanit Khern-am-nuai, Hossein Ghasemkhani, Karthik Kannan

Longitudinal Study on the Expectations of Cloud Computing Benefits and an Integrative Multilevel Model for Understanding Cloud Computing Performance | Tomi Dahlberg, Hannu Kivijärvi, Timo Saarinen

**Anti-Pattern Specification and Correction Recommendations for Semantic Cloud Services | Molka Rekik, Khouloud Boukadi, Walid Gaaloul, Hanene Ben-Abdallah

Customer Relationship Management in a Public Cloud Environment - Key Influencing Factors for European Enterprises | Rainer Schmidt, Michael Möhring, Barbara Keller
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<td>Kona 3</td>
<td>Friday, 10:00 – 11:30</td>
<td>Enabling the Adoption of Wearable Computers in Enterprises&lt;br&gt;- Results of Analyzing Influencing Factors and Challenges in the Industrial Sector</td>
<td>Sebastian Hobert, Matthias Schumann</td>
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<td>Case Study: Impact of the Physical Web and BLE Beacons</td>
<td>Debasis Bhattacharya, Mario Canul, Saxon Knight</td>
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<td>Digital Transformation in Police Work: A Sociomaterial Perspective on Police Body Worn Cameras (BWC)</td>
<td>Abdul Sesay, Ronald Ramirez, On-Ook Oh</td>
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<td>Panel Presentation: Wearables and the Internet of Things</td>
<td>Leyland Pitt, Hope Schau, Pierre Berthon</td>
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<tr>
<td><strong>Knowledge Innovation and Entrepreneurial Systems</strong>&lt;br&gt;Co-Chairs: Murray Jennex and David Croasdell</td>
<td>King’s 3</td>
<td>Saturday, 10:00 – 11:30</td>
<td>Eleven Years of Knowledge Management Track at HICSS – An Overview</td>
<td>Stefan Smolnik, Sven Dittes, Murray Jennex, David Croasdell</td>
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<td>Knowledge Management and Systematic Innovation Capability</td>
<td>Marianne Gloet and Daniel Samson</td>
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<td>Knowledge Management and Entrepreneurship: A Contradictory Recipe</td>
<td>Katia Passerini</td>
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<td>Crowd Science Implications for Knowledge Management</td>
<td>John Prpić and Jan Kietzmann</td>
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<td><strong>Confidentiality, Integrity, and Availability of Knowledge and Data</strong></td>
<td>Alexandra Durcikova, Murray Jennex</td>
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<td>One for All? Managing External and Internal Crowds through a Single Platform - A Case Study</td>
<td>Volkmar Mrass, Christoph Peters, Jan Marco Leimeister</td>
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<td>Wikidatians are Born: Paths to Full Participation in a Collaborative Structured Knowledge Base</td>
<td>Alessandro Piscopo, Christopher Phethean, Elena Simperl</td>
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<td><strong>The More the Merrier? The Effects of Community Feedback on Idea Quality in Innovation Contests</strong></td>
<td>Isabella Seeber, Daniel Zantedeschi, Anol Bhattacherjee, Johann Füller</td>
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<td>Which Reward Should I Choose? Preliminary Evidence for the Middle-Option Bias in Reward-Based Crowdfunding</td>
<td>Alexander Simons, Markus Weinmann, Matthias Tietz, Jan vom Brocke</td>
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<tr>
<td><strong>Entrepreneurship and Knowledge Management</strong>&lt;br&gt;Minitrack Chairs: Katia Passerini, Michael Bartolacci</td>
<td>King’s 3</td>
<td>Friday, 2:00 – 3:30</td>
<td>An Information System Design for Organizational Creativity Support</td>
<td>Celina Olszak, Tomasz Bartuś, Paweł Lorek</td>
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<td>Data Analysis Services Related to the IoT and Big Data: Potential Business Opportunities for Third Parties</td>
<td>Barbara Durkin, Izabella Lokshina, Cees J.M. Lanting</td>
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<td>Collaboration and Critical Mass among Nascent Companies</td>
<td>Cesar Bandera, Ellen Thomas</td>
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<td><strong>Best Paper Nomination</strong></td>
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<td><strong>Knowledge Economics</strong></td>
<td>Thursday, 4:00 – 5:30</td>
<td>King’s 3</td>
<td>Carsten Brockmann, Narcyz Roztocki</td>
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<td>Patent Analysis for the Formulation of Technology Policy: Evidence from 4G LTE Industry</td>
<td>King’s 3</td>
<td>Thursday, 4:00 – 5:30</td>
<td>Cheng-Hsin Chiang, Yi-Ching Liaw, Rung-Tai Wu</td>
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<tr>
<td>The Six Pillars of Knowledge Economics</td>
<td>King’s 3</td>
<td>Friday, 10:00 – 11:30</td>
<td>Carsten Brockmann, Narcyz Roztocki</td>
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<td>Gender and Business Competences of Knowledge Workers in Poland</td>
<td>King’s 3</td>
<td>Saturday, 2:00 – 3:30</td>
<td>Jolanta Kowal</td>
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<td>Demand-oriented Competency Development in a Manufacturing Context: The Relevance of Process and Knowledge Modeling</td>
<td>King’s 3</td>
<td>Saturday, 4:00 – 5:30</td>
<td>Gergana Vladova, André Ullrich, Eldar Sultanow</td>
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<td>Towards a Knowledge-Based Theory of Developing Sustainable Visions: The Theory Wave</td>
<td>King’s 3</td>
<td>Thursday, 8:00 – 9:30</td>
<td>Alexander Kaiser</td>
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<td>How Individual Technology Propensities and Organizational Culture Influence B2B Customer’s Behavioral Intention to Use Digital Services at Work?</td>
<td>King’s 3</td>
<td>Thursday, 10:00 – 11:30</td>
<td>Heli Hallikainen, Bert Paesbrugghe, Tommi Laukkanen, Deva Rangarajan, Mika Gabrielsson</td>
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<td>How Authoritarian Leadership and Renqing Orientation Improve Tacit Knowledge Sharing</td>
<td>King’s 3</td>
<td>Saturday, 4:00 – 5:30</td>
<td>Zhenjiao Chen, Mengmeng Song, Lin Jia, Zhaohua Wang,</td>
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<td>Impact of Knowledge Sharing Adoption on Universities’ Virtual Learning Communities</td>
<td>King’s 3</td>
<td>Saturday, 8:00 – 9:30</td>
<td>Abdullah Alammari, Daniel Chandran</td>
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<td>What do you mean, Supply Chain Security? A Taxonomy and Framework for Knowledge Sharing</td>
<td>King’s 3</td>
<td>Saturday, 8:00 – 9:30</td>
<td>Jess Smith, Jeremy Teuton</td>
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<td>A Dynamic Network Measure of Knowledge Evolution: A Case Study of MIS Quarterly</td>
<td>King’s 3</td>
<td>Saturday, 8:00 – 9:30</td>
<td>Jiexun Li, Jiyao Chen</td>
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Organizational Learning
Minitrack Chair: Julee Hafner

Toward a Model of Wisdom Determinants in the Auditing Profession | Loan Nguyen, Youji Kohda

Reports from the Field
Minitrack Chairs: Vincent Scovetta, Timothy Ellis, Julee Hafner

Towards a Conceptual Framework for Persistent Use: A Technical Plan to Achieve Semantic Interoperability within Electronic Health Record Systems | Shellon Blackman
**Organizational Information Dissemination Within Collaborative Networks Using Digital Communication Tools** | Cristelia Hinojosa, Simon Cleveland
Key Performance Indicators for Evaluating Corporate Wikis for Knowledge Management | Markus Michael Mützel, Omid Tafreschi
Perceptions of Successful Unlearning in Hearing Aid Practitioners | Julee Hafner

Organizational Systems and Technology
Co-Chairs: Hugh Watson

Advances in Design Research for Information Systems
Minitrack Chairs: Tuure Tuunanen, Richard Baskerville, Roman Beck

**“Refactoring” Refactoring** | Leslie J Waguespack, Jeffry Babb, David J Yates
Re-Visiting IS Design Science Artifacts: Making a Case for Critical Realism | Elin Uppström
Why do you Ask all those Questions? Supporting Client Profiling in Financial Service Encounters | Mehmet Kilic, Mateusz Dolata, Gerhard Schwabe
The State of Design - A Comprehensive Literature Review to Chart the Design Science Research Discourse | Rahul Thakurta, Benjamin Müller, Frederik Ahleemann, David Hoffmann

Digital Innovation
Minitrack Chairs: Nicholas Berente, Kalle Lyytinen, Youngjin Yoo

**Scaling the User Base of Digital Ventures Through Generative Pattern Replication: The Case of Ridesharing** | Bozhena Kelestyn, Ola Henfridsson, Joe Nandhakumar
Emergent Ecosystem for Radical Innovation: Entrepreneurial Probing at Formula E | Sirkka Jarvenpaa, Willem Standaert
The Socio-Technical Dimension of Inertia in Digital Transformations | Alexander M. Schmid, Jan Recker, Jan vom Brocke

Physical and Digital Innovation in Shipping: Seeding, Standardizing, and Sequencing | Richard Watson, Mikael Lind, Sandra Haraldson
Platform Thinking in Incumbent Firms: From Concept to Capability | Erik Leijon, Joanda Svenheden, Fredrik Svahn
Minimizing Complementors’ Risk in Third-Party Innovation: A Qualitative Comparative Analysis (QCA) of Digital Platform Configurations | Dominik Dellermann, Fabian Reck

** Best Paper Nomination
Building Digital Infrastructures: Towards an Evolutionary Theory of Contextual Triggers | Dina Koutsikouri, Rikard Lindgren, Ola Henfridsson

The Role of YouTube in the Digitalization of TV: A Case Study of Novel Value Co-creation Practices at United Screens | Evelina Griborn, Daniel Nylen

Beyond Business-IT Alignment - Digital Business Strategies as a Paradigmatic Shift: A Review and Research Agenda | Cathrin Kahre, David Hoffmann, Frederik Ahlemann


Enterprise Architecture and Business Processes Analysis
Minitrack Chairs: Frank Armour, Steve Kaisler

Understanding the Benefits and Success Factors of Enterprise Architecture | Muhammad Baharudin Jusuf, Sherah Kurnia

Enterprise Architecture Planning: Analyses of Requirements from Practice and Research | Emmanuel Nowakowski, Matthias Farwick, Thomas Trojer, Martin Häusler, Johannes Kessler, Ruth Breu


Object-Relational Mapping Revisited - A Quantitative Study on the Impact of Database Technology on O/R Mapping Strategies | Martin Lorenz, Jan-Peer Rudolph, Günter Hesser, Matthias Uflacker, Hasso Plattner

A Semi-Automatic Approach for Eliciting Cloud Security and Privacy Requirements | Nikolaos Argyropoulos, Shaun Shei, Christos Kalloniatis, Haralambos Mouratidis, Aidan Delaney, Andrew Fish, Stefanos Gritzalis

15 Years of Enterprise Architecting at HICSS: Revisiting the Critical Problems | Stephen Kaisler, Frank Armour

Identifying Potential Problems and Risks in GQM+Strategies Models Using Metamodel and Design Principles | Chimaki Shimura, Hironori Washizaki, Yohei Aoki, Takanobu Kobori, Kiyoshi Honda, Yoshiaki Fukazawa, Katsutoshi Shintani, Takuto Nonomura

Adaptive service composition based on runtime verification of formal properties | Glaucia Melissa Medeiros Campos, Nelson Souto Rosa, Luis Ferreira Pires

A Connection of Task-centric with Artefact-centric Models through Semantic Task Specification and its Use for Formal Verification | Roman Popp, Ralph Hoch, Hermann Kaindl

Enterprise System Integration: Issues and Answers
Minitrack Chairs: Marinos Themistocleous, Gail Corbitt, Paulo Rupino da Cunha

The Internal Audit Performance: The Effectiveness of ERM and IT Environments | Wen-Hsien Tsai, Hui-Chiao Chen, Jui-Chu Chang, Hsiu-Li Lee

Prediction of Propensity for Enterprise Cloud Computing Adoption | Niki Kyriakou, Manolis Maragoudakis, Euripides Louks, Marinos Themistocleous

Information Security and Privacy
Minitrack Chairs: Tung Bui, Tawei Wang, Eric Clemons

Measuring Privacy Concern and the Right to Be Forgotten | Paul Steinbart, Mark Keith, Jeffry Babb

Enforcing Information Security Protection: Risk Propensity and Self-Efficacy Perspectives | Quynh N. Nguyen, Dan J. Kim

Firm Actions Toward Data Breach Incidents and Firm Equity Value: An Empirical Study | Ziqian Song, Gang Alan Wang, Weiguo Fan

Measuring Privacy Concern and the Right to Be Forgotten | Paul Steinbart, Mark Keith, Jeffry Babb

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Firm Actions Toward Data Breach Incidents and Firm Equity Value: An Empirical Study | Ziqian Song, Gang Alan Wang, Weiguo Fan
**The Assumptions and Profiles Behind IT Security Behavior** | Puzant Balozian, Dorothy Leidner

**Multiple Sources for Security: Seeking Online Safety Information and their Influence on Coping Self-Efficacy and Protection Behavior Habits** | Ruth Shillair, Jingbo Meng

**Deterrent Effects of Warnings on User’s Behavior in Preventing Malicious Software Use** | Mario Silic, Andrea Back

**The Influence of Privacy Dispositions on Perceptions of Information Transparency and Personalization Preferences** | Sabrina Hauff, Olga Dytynko, Daniel Veit

**Capabilities and Skill Configurations of Information Security Incident Responders** | Mark-David McLaughlin, John D’Arcy, W. Alec Cram, Janis Gogan

**Competitiveness on Social Networking Sites and Its Implications on Individuals’ Security and Privacy Concerns** | Philip Menard, Shwadhin Sharma

**The Federal Government’s Attempt to Force Microsoft to Violate Irish Territoriality** | Eric Clemons

**A Process-Oriented Model to Business Value - the Case of Real-Time IT Infrastructures** | Carina Cundius, Rainer Alt

**Time for Climate Change: Leadership, IT Climate, and their Impact on Organizational Performance** | Nico Wunderlich, Roman Beck

**Characterizing, Explaining and Valuing the Effective Use of an IT Artefact: A Field Study of Performance Management Information Systems in SMEs** | Marie Marchand, Louis Raymond

**Computational Social Science Fusion Analytics: Combining Machine-Based Methods with Explanatory Empiricism** | Robert Kauffman, Kwansoo Kim, Sang-Yong Lee

**What Drives Successful Complaint Resolutions on Social Media?: Evidence from the Airline Industry** | Priyanga Gunarathne, Huaxia Rui, Avi Seidmann

**Optimal Subsidy and Tax Policies for Green Product with Consumer Environmental Awareness** | Linghong Zhang, Jie Zhang

**Linking Technological System Architecture and Purchasing Categories** | Elina Karttunen, Janne Nerg

**Optimal Nutrition Care for all, from Policy to Action - A National Nutrition Program in Israel** | Ronit Endevelt, Josefa Kachall, Pierre Singer, Ronit Doyev, Itamar Grotto

**Go with the Flow - Design of Cloud Logistics Service Blueprints** | Michael Glöckner, André Ludwig, Bogdan Franczyk

**Managing Migraine via Telemedicine: Clinical Effectiveness and Process Implications** | Balaraman Rajan, Avi Seidmann, Deborah Friedman

**The Emergence of Business Model for Digital Innovation Projects without Predetermined Usage and Market Potential** | Katerina Antonopoulou, Joe Nandhakumar, Christos Begkos

**No Gain without Pain: Feelings an Emotional Practices in an Information System Project** | Riitta Hekkala, Liisa von Hellens, Michael Newman
### OS 16 | Kona 2 | Friday, 4:00 – 5:30
How Can Steering Committees Manage Change Through Dynamic Capabilities to Increase System Satisfaction? | Kris Murphy, Kalle Lyytinen, Toni Somers
How Do Project-related Artefacts Qualify for Bridging Boundaries in IS Implementation Projects - An Activity Theoretical Perspective | Andy Weeger
Success Lies in the Eye of the Beholder: A Quantitative Analysis of the Mismatch Between Perceived and Real IT Project Management Performance | Fabiano Neves, Hans Borgman, Hauke Heier

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

### OS 17 | Kohala 4 | Saturday, 8:00 – 9:30
Exploring the Influence of Belgian and South-African Corporate Governance Codes on IT Governance Transparency | Tim Huygh, Steven De Haes, Anant Joshi, Wim Van Grembergen, Denis Gui
How IT Management Profile and IT Business Value Correlate - Exploring Cross-Domain Alignment | Anna Wiedemann, Heiko Gewald, Andy Weeger
A Longitudinal Study on the Perceived Roles of IT and the Corporate IT Function with Influences on CIOs’ Work Equilibria in a Media Company | Tomi Dahlberg, Päivi Hokkanen, Mike Newman

### OS 18 | Kohala 4 | Saturday, 10:00 – 11:30
Review of 23 Years of Empirical Research on Information Technology Outsourcing Decisions and Outcomes | Mary Lacity, Aihua Yan, Shaji Khan
IT Agility: Current State, Organizational Contingencies, and Future Research Avenues | Michael Yousif, Johan Magnusson, Kalevi Pessi

### OS 19 | Kona 5 | Thursday, 10:00 – 11:30
Innovation Ecosystems vs. Innovation Systems in Terms of Collaboration and Co-creation of Value | Nataliya Smorodinskaya, Martha Russell, Daniel Katukov, Kaisa Still
Emergence and Dissemination of Ecosystem Concept in Innovation Studies: A Systematic Literature Review Study | Arash Hajikhani
Shaping the Boundaries of a Service Ecosystem: The Case of Udacity | Hannes Rothe, Florian Steier
Explaining Digital Ecosystem Evolution: The Revelatory Case of a Digital Platform Start-up in the 3D Printing Industry | Tyge-F. Kummer, Frederik von Briel

### OS 20 | Kona 5 | Thursday, 2:00 – 3:30
Value-Creation Dynamics in Platform Ecosystem: A Firm Theory Lens | Dohoon Kim
**Uncovering the Nature of Platform-based Business Models: An Empirical Taxonomy** | Karl Täuscher, Sven M. Laudien
The Antecedents of Transaction Costs in Digital Ecosystems: A Configurational View on the Interplay of App Architecture and Platform Governance | Dominik Dellermann, Fabian Reck

### OS 21 | Kona 5 | Thursday, 4:00 – 5:30
Explaining Standard Dominance: The Effect of Influential Network Positions and Structural Holes | Geerten van de Kaa
Too Big to Fail? Overcrowding a Multi-Sided Platform and Sustained Competitive Advantage | Pontus Huotari
Visualizing the Geography of Platform Boundary Resources: The Case of the Global API Ecosystem | Jukka Huhtamäki, Rahul Basole, Kaisa Still, Martha Russell, Marko Seppänen
Open Source Application Software, Organizing and Innovation
Minitrack Chairs: Alexandra Kees, Aron Lindberg

Open Source Project Collapse - Sources and Patterns of Failure | Daniel Ehls
**Evolutionary Software Requirements Factors and their Effect on Open Source Project Attractiveness | Radu Vlas, William Robinson, Cristina Vlas

Organizational Issues of Business Intelligence, Business Analytics and Big Data
Minitrack Chairs: Olivera Marjanovic, Barbara Dinter, Thilini Ariyachandra

**25+ Years of Business Intelligence and Analytics Minitrack at HICSS: A Text Mining Analysis | Olivera Marjanovic, Barbara Dinter
Enablers and Mechanisms: Practices for Achieving Synergy with Business Analytics | Ida Asadi Someh, Barbara Wixom, Michael Davern, Graeme Shanks
Understanding Intention to Explore Business Intelligence Systems: The Role of Fit and Engagement | Junyi Yang, Alain Pinsonneault, J.J. Po-An Hsieh
Capturing Value from Data: Revenue Models for Data-Driven Services | Ronny Schüritz, Stefan Seebacher, Rebecca Dorner

Practice-based IS Research
Minitrack Chairs: Dorothy Leidner, Ester Gonzalez, Bill Kettinger, Michael Milovich

**So You Want To Go Digital? How To Avoid The Next Legacy Platform | Debacle Martin Mocker, John Boochever
Blockchain as Radical Innovation: A Framework for Engaging with Distributed Ledgers as Incumbent Organization | Roman Beck, Christoph Müller-Bloch
InfoSec Research in Prominent IS Journals: Findings and Implications for the CIO and Board of Directors | Mark-David McLaughlin, Janis Gogan

Increasing the Agility of IT Delivery: Five Types of Bimodal IT Organization | Bettina Horlach, Paul Drews, Ingrid Schirmer, Tilo Boehmann
The Transformative Role of Bimodal IT in an Era of Digital Business | Ingmar Haffke, Bradley Kalgovas, Alexander Benlian
Connecting Industry: Building and Sustaining a Practice-based Research Community | Susan Williams, Petra Schubert

Mitigating the Threat of Lost Knowledge within Information Technology Departments | Jesse Shumaker, Kerry Ward, Stacie Petter, Jennifer Riley
A Framework for Relationships in Outsourcing: Contract Management Archetypes | Sara Cullen, Graeme Shanks, Michael Davern, Leslie Willcocks
Transforming the Workplace: Unified Communications & Collaboration Usage Patterns in a Large Automotive Manufacturer | Anthony Bolton, Meg Murray, Joy Fluker
Dynamic Capabilities and Project Management in Small Software Firms | Jacob Nørbjerg, Peter Axel Nielsen, John Stouby Persson

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

An Exploration of Anchoring Female Millennial Students to an IS/IT Career Path: The CLASS Model | Cherie Noteboom, Pam Rowland
The Interorganizational Relationships Process: An Asset Orchestration Mechanisms Perspective in an SME Context | Claudia Pelletier, Dragos Vieru, Anne-Marie Croteau
Strengthening social Ties via ICT in the Organization | Osku Torro, Henri Pirkkalainen

** Best Paper Nomination
A Typology for Organizational ICT Practice | Stephen McCarthy, Paidi O’Raghallaigh, Ciara Fitzgerald, Frédéric Adam

**The Effect of Virtual Team Membership Change on Social Identity Development: A Case from Higher Education in Norway | Karen Stendal, Robert Fuller**

It’s Not Just About Attention to Details: Redefining the Talents Autistic Software Developers Bring to Software Development | Hala Annabi, Kartihka Sundaesan, Annuska Zolyomi

Understanding Private Technological Availability and Technological Turbulence as Executives’ Job Conditions: A Work-Family Perspective | Ruth Stock, Marina Melanie Strecker

**Strategy, Information, Technology, Economics, and Society (SITES)**
Minitrack Chairs: Eric Clemons, Rajiv Dewan, Robert Kauffman, Thomas Weber

Effects of Donor- and Supporter-Based Campaign Networks on Crowdfunding Campaign Success | Bin Wang, Babajide Osatuyi, Wanrong Hou

Link Formation on Twitter: The Role of Achieved Status and Value Homophily | Shujing Sun, Huaxia Rui

Incentive Provision and Pro-Social Behaviors | Dandan Qiao, Shun-Yang Lee, Andrew Whinston, Qiang Wei

Decomposing the Impact of Credit Card Promotions on Consumer Behavior and Merchant Performance | Dan Geng, Robert Kauffman

Product Introduction Strategies in the Age of Social Media | Rajiv Mukherjee

Borrower’s Self-Disclosure of Social Media Information in P2P Lending | Ruyi Ge, Bin Gu, Juan Feng

Controlling and Pricing Shareability | Thomas Weber

Online Hacker Forum Censorship: Would Banning the Bad Guys Attract Good Guys? | Qiu-Hong Wang, Le-Ting Zhang, Meng-Ke Qiao

Patient Choice in Acute | Care Ozden Engin Cakici, Rajiv Dewan, Marshall Freimer

A Preliminary Test of the Resonance Marketing Hypothesis: Guidance for Future Research Assessing Multi-Attribute Preferences in Horizontal Competition | Eric Clemons, Josh Wilson


The Dark Side of Information Technology
Minitrack Chairs: Ofir Turel, Amr Soror, Zach Steelman

When Modern Technologies Meet Ageing Workforces: Older Workers are more affected by Demands from Mobile Interruptions than their Younger Counterparts | Stefan Tams, Varun Grover, Jason Thatcher, Manju Ahuja

Take Control of Interruptions in Your Life: Lessons from Routine Activity Theory of Criminology | Pankush Kalgotra, Andy Luse, Ramesh Sharda

**From IT Addiction to Discontinued Use: A Cognitive Dissonance Perspective | Isaac Vaghefi, Hamed Qahri-Saremi**

Understanding Consumers’ Reactance of Personalized Online Advertising Services: from a Perspective of Negative Effects | Qi Chen, Yuqiang Feng, Luning Liu, Jingrui Ju

Linking User Age and Stress in the Interruption Era: The Role of Computer Experience | Stefan Tams
Theories in the Light of Contingency and Change: Possible Future Worlds and Well-Grounded Hope as a Supplement to Truth | Ulrich Frank

When Humans Using the IT Artifact Becomes IT Using the Human Artifact | Dionysios Demetis, Allen Lee

Panel: 40 Years of IS Research: 2 Truths and a Lie | Izak Benbasat, Elizabeth Davidson, Alan Dennis, Dirk Hovorka, Sirkka Jarvenpaa, Dorothy Leidner, Kalle Lyytinen, Barbara Wixom

Data-Driven, Statistical Learning Method for Inductive Confirmation of Structural Models | Wolfgang Maass, Iaroslav Shcherbatyi

Modes of Theory Integration | Dirk Hovorka, Kai Larsen

**The Information Systems Artifact: A Conceptualization Based on General Systems Theory | Sutirtha Chatterjee, Xiao Xiao, Amany Elbanna, Suprateek Saker


Topics in Organizational Systems and Technology
Minitrack Chairs: Mark Frolick, Kelly Rainer, Jim Ryan

Watch Out-It’s My Private Space! Examining the Influence of Technology Driven Intrusions on Employee Performance | Anuragini Shirish, Shalini Chandra, Shirish C. Srivastava

Towards a Typology of Relevance | Kaveh Mohajeri, Dorothy Leidner

Ethics and CSR Research in Top Ranked IS Journals, 1980-2013: A Developing Trend or Anomaly? | Joseph Weiss

Trust, Identity, and Trusted Systems in Digital Environments
Minitrack Chairs: Sirkka Jarvenpaa, Robin Teigland

The Implications of Trust in the Sharing Economy - An Empirical Analysis of Uber | Christoph Mittendorf

Private vs. Business Customers in the Sharing Economy - The Implications of Trust, Perceived Risk, and Social Motives on Airbnb | Christoph Mittendorf, Uwe Ostermann

**Developing a Mechanism to Study Code Trustworthiness | Charles Walter, Rose Gamble, Gene Alarcon, Sarah Jessup, Chris Calhoun

Panel Discussion: Trusted Systems with Advanced Algorithmic Capabilities in Peer-to-peer Environments | Carsten Sorensen, Liisa Välikangas, Matti Rossi

** Best Paper Nomination
Towards an Innovative Validation-Driven Approach to Lean Product Development | Osama Al-Baik, James Miller, Daniel Greening

Challenges in Transitioning to an Agile Way of Working | Riitta Hekkala, Mari-Klara Stein, Matti Rossi, Kari Smolander

Trading Discipline for Agility? Questioning the Unfaithful Appropriation of Agile Software Development Practices | Akbar Saeed

Artifacts for Agile User-Centered Design: A Systematic Mapping | Andrei Garcia, Tiago Silva da Silva, Milene Selbach Silveira

Understanding the Relations Between Iterative Cycles in Software Engineering | Henri Terho, Sampo Suonsyrjä, Kari Systä, Tommi Mikkonen

**Are More Frequent Releases Always Better? Dynamics of Pivoting, Scaling, and the Minimum Viable Product | Edward Anderson, Shi Ying Lim, Nitin Joglekar

Big Data Engineering

Minitrack Chairs: Hong-Mei Chen, Ken Anderson, Wietske van Osch

Batch to Real-Time: Incremental Data Collection & Analytics Platform | Ahmet Aydin, Ken Anderson

Big Data Value Engineering for Business Model Innovation | Hong-Mei Chen, Rick Kazman, Juan Garbajosa, Eloy Gonzalez

Privacy of the Internet of Things: A Systematic Literature Review | Noura Aleisa, Karen Renaud

ConTaaS: An Approach to Internet-Scale Contextualisation for Developing Efficient Internet of Things Applications | Ali Yavari, Prem Prakash Jayaraman, Dimitrios Georgakopoulos, Surya Nepal

Design of Smart Factory Web Services Based on the Industrial Internet of Things | Jieun Jung, Byunghun Song, Kym Watson, Thomas Usländer

Cybersecurity and Software Assurance

Minitrack Chairs: Luanne Goldrich, Richard George, Thomas Usländer

**Present but unreachable: reducing persistent latent secrets in HotSpot JVM | Adam Pridgen, Simson Garfinkel, Dan Wallach


Identifying Implicit Component Interactions in Distributed Cyber-Physical Systems | Jason Jaskolka, John Villasenor

Agile Research for Cybersecurity: Creating Authoritative, Actionable Knowledge When Speed Matters | Richard Linger, Luanne Goldrich, Matt Bishop, Melissa Dark

Can Cybersecurity Be Proactive? A Big Data Approach and Challenges | Hong-Mei Chen, Rick Kazman, Ira Monarch, Ping Wang
A Threat-Vulnerability Based Risk Analysis Model for Cyber Physical System Security | Lehlogonolo Ledwaba, H.S. Venter

**A Synchronized Shared Key Generation Method for Maintaining End-to-End Security of Big Data Streams | Deepak Puthal, Surya Nepal, Rajiv Ranjan, Jinjun Chen


**A Model-Based Engineering Methodology for Requirements and Formal Design of Embedded and Real-Time Systems | Fabíola Gonçalves, Achim Rettberg, Carlos Pereira, Michel Soares

Communication barriers in the decision-making process: System Language and System Thinking | Stef Schinagl, Ronald Paans

Risk - Informed Decision Making in Information System Implementation Projects: Using Qualitative Assessment and Evaluation of Stakeholders’ Perceptions of Risk | Monica Schurr, Manuel De Tuya, Kathryn Noll

A Decision - Theoric Approach to Measuring Security | Dan Port, Joel Wilf

Investigating and Coordinating Safety-critical Feature Interactions in Automotive Systems Using Simulation | Christoph Luckeneder, Michael Rathmair, Hermann Kaindl

Applying MARTE Profile for Optimal Automotive System Specifications and Design | Fabíola Gonçalves, Achim Rettberg, Carlos Pereira, Michel Soares

Towards a Mobile Learning Environment using Reference Architectures | Maria Lydia Fioravanti, Nemésio Freitas Duarte Filho, Lucas Bortolini Fronza, Ellen Francine Barbosa

Enriching Augmented Reality with Text Data Mining: An Automated Content Management System to Develop Hybrid Media Applications | Rocco Raso, Dirk Werth, Peter Loos

**Exploitation and Detection of a Malicious Mobile Application | Thanh Nguyen, Jeffrey Todd McDonald, William Bradley Glisson

Comprehensive Analysis of Innovative Cross-Platform App Development Frameworks | Tim A. Majchrzak, Andreas Biørn-Hansen, Tor-Morten Grønli
A Comparison of Task Parallel Frameworks Based on Implicit Dependencies in Multi-core Environments | Basilio B. Fraguela

Low-latency XPath Query Evaluation on Multi-Core Processors | Benjamin Karsin, Henri Casanova, Lipyeow Lim

Are Web Applications Ready for Parallelism? | Cosmin Radoi, Stephan Herhut, Jaswanth Sreeram, Danny Dig

Science Gateways and Portals
Minitrack Chairs: Sandra Gesing, Nancy Wilkins-Diehr, Michelle Barker

Science Gateways: The Long Road to the Birth of an Institute | Sandra Gesing, Nancy Wilkins-Diehr, Maytal Dahan, Katherine Lawrence, Michael Zentner, Marlon Pierce, Linda Hayden, Suresh Marru

Maintaining a Science Gateway - Lessons Learned from MoSGrid | Lukas Zimmermann, Richard Grunzke, Jens Krüger

Software Product Lines: Engineering, Services, and Management
Minitrack Chairs: Timo Kääölä, Andrea Leitner

Knowledge Transfer in a Management Process for Outsourced Agile Software Development | Maylon F. De Brito, Rejane Maria Da Costa Figueiredo, Elaine Venson, Edna Dias Canedo, Luiz Carlos M. Ribeiro Junior

Towards a Software Product Line Architecture to Build M-learning Applications for the Teaching of Programming | Anderson Silva Marcolino, Ellen Francine Barbosa
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Qahari-Saremi, Hamed  OS33-65
Qi, Li  DSM14-46
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FLOOR PLAN

Indoor Meeting Space
FLOOR PLAN

Outdoor Function Space