The Hawai‘i International Conference on System Sciences

HICSS

51st

WHERE IDEAS MEET AND SCIENCE SPEAKS

January 2-6, 2018 | Hilton Waikoloa Village, Big Island
hicss.hawaii.edu
HICSS-51, A CO-CREATION BY...

- **2** KEYPONTE SPEAKERS
- **80** SYMPOSIAS, WORKSHOPS & TUTORIALS LEADERS
- **1,643** AUTHORS FROM **586** PAPERS
- **1,901** REVIEWERS
- **332** MINITRACK CHAIRS
- **20** TRACK CHAIRS
- **8** HICSS STAFF & HELPERS
- **950** CONFERENCE ATTENDEES FROM OVER 40 COUNTRIES & COUNTING
Conference Chair
Tung Bui, University of Hawai’i at Mānoa

Scientific Advisor
John Seely Brown
Deloitte Center for the Edge

Advisor for External Development
Souren Paul
Nova Southeastern University

Conference Program Coordinator
Thayanan Phuaphanthong
Department of IT Management, Shidler College of Business
University of Hawai’i at Mānoa

Track Chairs

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

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

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

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

Electric Energy Systems
Thomas Overbye, Texas A&M University
Robert Thomas, Cornell University

Information Technology in Healthcare
William Chismar, University of Hawai’i at Mānoa
Thomas Horan, University of Redlands

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

Knowledge Innovation & Entrepreneurial Systems
Murray Jennex, San Diego State University
Dave Croasdell, University of Nevada, Reno

Organizational Systems and Technology
Hugh Watson, University of Georgia
Dorothy Leidner, Baylor University

Software Technology
Gul Agha, University of Illinois at Urbana-Champaign
Rick Kazman, University of Hawai’i at Mānoa
Call for Participation

The Hawai‘i International Conference on System Sciences (HICSS) invites submission of:

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

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

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

February 28, 2018 | 11:59 pm HST: Deadline for SWT Proposal Submission
March 28, 2018: Notification of Acceptance/Rejection

Important Dates for Minitrack Proposals

February 12, 2018 | 11:59 pm HST: Submission Deadline for Minitrack Proposal
February 21, 2018: Notification of Acceptance/Rejection

Important Dates for Paper Submission

June 15, 2018 | 11:59 pm HST: Paper Submission Deadline
August 17, 2018: Notification of Acceptance/Rejection
September 22, 2018: Deadline for Authors to Submit Final Manuscript for Publication
October 1, 2018: Deadline for at least one author of each paper to register for HICSS-52

Important Dates for Pre-Conference Doctoral Consortium Application

July 15, 2018 | 11:59 pm HST: Application Deadline
August 17, 2018: Notification of Acceptance/Rejection
Ralph H. Sprague Jr. who served as chairman and co-chairman of HICSS for 41 years, from HICSS-10 to HICSS-50 (1977-2017) passed away peacefully on April 28, 2017. Ralph was a pioneer in the field of Decision Support Systems. His work has inspired generations of researchers and has laid the foundations for today’s advanced use of computer technologies in business. With his seminal work on building effective systems to support decision-making, Ralph was regarded as one of the ten most influential researchers in the field of Management Information Systems at a time when it was beginning to find its way. Among his notable publications are “A Framework for the Development of Decision Support Systems” (MIS Quarterly, 1980), Building Effective Decision Support Systems (Sprague and Carlson 1982) and Information Systems Management in Practice (McNurlin, Sprague, and Bui, 1986 – 2009).

Ralph was the founding chairman of the Department of Information Technology Management (then, Decision Sciences) at the Shidler College of Business, University of Hawaii at Manoa. Under his tenure, the department was rated the top department in the U.S. in the field of Decision Support Systems. In addition to his immeasurable scientific contributions, Ralph will be most remembered with great fondness as a friend, mentor, and colleague by the IS community worldwide. With his roadster and sailboat as part of his lifestyle, Ralph had a life well lived.

The HICSS community celebrates and strives to honor the life and legacy of Ralph H. Sprague Jr. with its continued research excellence.
## HICSS-51 OVERALL SCHEDULE

### January 2 | Tuesday
- **09:00 - 07:00** Pre-Conference Doctoral Consortium
- **12:00 - 05:00** Registration
- **03:00 - 04:30** Board Meeting
- **06:00 - 07:00** Conference Organizers Meeting at Grand Staircase | By Invitation Only

### January 3 | Wednesday
- **08:00 - 05:00** Registration
- **09:00 - 10:15** Symposia, Workshops, and Tutorials
- **10:15 - 10:45** Coffee Break
- **10:45 - 12:00** Symposia, Workshops, and Tutorials
- **12:00 - 01:00** Lunch (on your own, but pre-order is available during the coffee break)
- **01:00 - 02:15** Symposia, Workshops, and Tutorials
- **02:15 - 02:45** Coffee Break
- **02:45 - 04:00** 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

### January 4 | Thursday
- **07:30 - 05:00** 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
- **04:00 - 05:30** Women’s Networking at Kohala 2
- **06:00 - 07:00** Pau Hana Happy Hour at Lagoon Lanai

### January 5 | Friday
- **07:30 - 05:00** 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 - 07:00** Pau Hana Happy Hour | Meet the Editors at Lagoon Lanai

### January 6 | Saturday
- **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
- **12:35 - 12:55** Best Paper Award Ceremony
- **01:00 - 02:30** Paper Sessions
- **02:30 - 03:00** Coffee Break
- **03:00 - 04:30** Paper Sessions
- **06:00 - 09:00** Luau at Lagoon Lanai

### WIFI Internet Connection at HICSS-51
Network ID: HICSS 2018
Password: hicss2018
14 Event Matrices

22 Plenary Talks

24 Symposia, Workshops, and Tutorials
   25 Big Data
   26 Computing Technologies
   28 Electronic Government
   29 Innovation and Sustainability
   29 IT and Society
   31 Scientific Inquiry and Research Methods
   32 Security

34 Schedule of Paper Presentations by Tracks
   35 Collaboration Systems and Technology Track
   39 Decision Analytics, Mobile Services, and Service Science Track
   44 Digital and Social Media Track
   47 Electronic Government Track
   49 Electric Energy Systems Track
   51 Information Technology in Healthcare Track
   54 Internet and the Digital Economy Track
   58 Knowledge Innovation and Entrepreneurial Systems Track
   60 Organizational Systems and Technology Track
   65 Software Technology Track

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Event Matrices

14 Wednesday January 3, 2018
16 Thursday January 4, 2018
18 Friday January 5, 2018
20 Saturday January 6, 2018

Plenary Talks

22 Cognitive Computing and the Future
   Inhi Suh, IBM Collaboration Solutions
23 Toward a Global Research Platform for Big Data Analysis
   Larry Smarr, California Institute for Telecommunications
   and Information Technology (Calit2), a UC San Diego/UC Irvine Partnership

Symposia, Workshops, and Tutorials

25 Big Data
   25 Big Data and Analytics (BDA): Body of Knowledge, Organizational Issues and Governance
   25 Fundamentals and Applications of Visual Analytics
   25 Smart Data – A Pathway to the Future
   25 Data Analytics in the Curriculum (Insights on AACSB Curriculum Design)
   26 Continuous Delivery Analytics
   26 Text Mining Opportunities and Challenges in Big Data Analytics

26 Computing Technologies
   26 Computing in Smart Toys
   26 Using Fuzzy Cognitive Map Modeling to Promote System Learning, Public Participation, and Problem Solving in Socio-environmental Systems
   27 Cognitive Computing and Cognitive Systems
   27 Quantum Computing
   28 BIZGENICS: Toward Intelligent Entrepreneurial Systems
   28 Enterprise Decision Support Systems and Data Analytics Tools for Resilient System Architecture and Acquisition Strategy Assessment
Electronic Government
Smart Cities and Smart Governments: The Enabling Role of Research and Practice Collaborations in the Urban Context

Innovation and Sustainability
The Sixth Symposium on Sustainable Energy and Computing (SSEC) 2018

IT and Society
Digital Entrepreneurship: A Research Agenda
Information Technology for the Informal Sector in Developing Countries
IT as the Driver of Innovation for Digital Transformation Across the Enterprise
MISQE Workshop on the Digital Workforce
Social Media and Healthcare: A Research Agenda
Using Big Data Analytics to Map the Emerging Body of Knowledge of Digital Transformation
Internet of Things in Education: The Current State and the Future

Scientific Inquiry and Research Methods
Digital Methods Best Practices
Evaluation of Artifacts in Design Science
Computational Social Science Meets Social Dilemmas: Integrating Simulations, Experiments, and Big Data Analyses

Security
5G and User Controlled Privacy
Competitions and Games
Cybersecurity Big Data Analytics
Certified Security by Design for Internet of Security
Virtual Lab Automation and Design
Cybersecurity will Change the Future of Computing
Credibility Assessment and Screening Technologies (CAST)

Schedule of Paper Presentations by Tracks and Technology Track

Collaboration Systems and Technologies Track
Best and Next Practices in Online Education: Opportunities and Challenges
Communication and Information Systems Technology for Crisis and Disaster Management
Creativity in Teams and Organizations
Cross-Organizational and Cross-Border IS/IT Collaboration
Data Science and Digital Collaborations
Emerging Issues in Distributed Group Decision-Making: Opportunities and Challenges
Human-Computer Interaction: Informing Design Utilizing Behavioral, Neurophysiological, and Design Science Methods
IT Enabled Collaboration in Development
Negotiation, Leadership, and Technology
Processes and Technologies for Small and Large Team Collaboration
Social and Psychological Perspectives in Collaboration Research
Social Media and e-Business Transformation
Technology Mediated Collaborations in Healthcare and Wellness Management
Text Mining in Big Data Analytics
The Sharing Economy
Virtual Teams, Organizations and Networks

**Decision Analytics, Mobile Services, and Service Science Track**
Big Data and Analytics: Pathways to Maturity
Business Intelligence, Analytics and Cognitive: Case Studies and Applications (COGS)
Data Analytics in Behavioral Research
Data, Text, and Web Mining for Business Analytics
Decision Support for Complex Networks
Decision Support for Smart Cities
Deep Learning Ubiquitous and Toy Computing
Digital Services and the Digitalization of Services
Gamification
Intelligent Decision Support for Logistics and Supply Chain Management
Interactive Visual Analytics and Visualization for Decision Making – Making Sense of Big Data
Internet of Things: Providing Services Using Smart Devices, Wearables, and Quantified Self
Machine Learning and Network Analytics in Finance
Mixed, Augmented and Virtual Reality
Mobile Value Services
Multi-criteria Decision Analysis and Support Systems
Online Decision Making and Information Systems Design
Open Digital Services and Platforms
Service Analytics
Service Science
Smart Service Systems: Analytics, Cognition and Innovation
Soft Computing: Methods and Applications

Digital and Social Media Track
Ignite Talks
Collective Intelligence and Crowds
Critical and Ethical Studies of Digital and Social Media
Data Analytics, Data Mining and Machine Learning for Social Media
Decision Making in Online Social Networks
Digital Social Media in Enterprise
Games and Gaming
Learning within Digital and Social Media
Mediated Conversation
Network Analysis of Digital and Social Media
Social Information Systems
Social Media and Communities
Social Media: Culture, Identity, and Inclusion
Social Movements and Social Technologies

Electronic Government Track
Cybersecurity and Government
Emerging Topics in Electronic Government
Enhancing Public Participation, Interaction, and Innovation in Government
Government and Disaster Resilience
Government Services and Information
Government Transformation and Digitalization: Governance, Organization, and Management
Information and Communication Technologies for Development (ICT4D): ICTs and Sustainable Development
Insider Threats to Governments and Organizations
Open Data and Data Analytics in Government
Policies and Strategies for Digital Government
Smart Cities and Smart City Government
Social Media and Government
Electric Energy Systems Track
- Markets, Policy, and Computation
- Monitoring, Control and Protection
- Integrating Distributed or Renewable Resources
- Resilient Networks

Information Technology in Healthcare Track
- Big-Data on Healthcare Application
- Global Health IT Strategies
- Health Behavior Change Support Systems
- Health Information Technology for Development: Use of ICTs for Health Equity
- Health Technologies that Interface Patients and Providers
- ICT-enabled Self-management of Chronic Diseases and Conditions
- IT Adoption, Diffusion and Evaluation in Healthcare
- IT Architectures and Implementations in Healthcare Environments
- IT-Enabled Healthcare Coordination
- Personal Health Management and Technologies
- Real-World Evaluation of Biosensor-Based Interventions in Healthcare
- Security and Privacy Challenges for Healthcare
- Seniors’ Use of Health Information Technology
- Social Media and Healthcare Technology
- User Experience (UX) In Information Systems (IS) for Health and Wellness

Internet and the Digital Economy Track
- Crowd-based Platforms
- Distributed Ledger Technology, the Blockchain
- Electronic Marketing
- Game System Design and the Digital Economy
- Global, International, and Cross-Cultural Issues in IS
- Innovative Behavioral IS Security and Privacy Research
- Privacy, 5G and Economics
- Social Shopping: The Good, the Bad and the Ugly
- The Diffusion, Impacts, Adoption and Usage of ICTs upon Society
- The Digital Supply Chain of the Future: Technologies, Applications and Business Models
- Truth and Lies: Deception and Cognition on the Internet
- Wearable Technology and the Internet of Everything
Knowledge Innovation and Entrepreneurial Systems Track

Analytics in Support of Continuous Knowledge Creation
Creation and Appropriation of Knowledge Systems
Crowd Science
Entrepreneurship and Knowledge Management
Knowledge and Innovation Management in the Age of Complexity
Knowledge Economics
Knowledge Flows, Transfer, Sharing and Exchange
Knowledge Management and Information Security
Knowledge Management and Strategic Planning
Knowledge Society, Culture, and Knowledge Systems
Organizational Learning
Reports from the Field
Research Data and Knowledge Systems

Organizational Systems and Technology Track

Advances in Design Science Research
Blockchain and Fintech
Data Analytics Management, Governance, and Compliance
Digital Innovation
Enterprise Architecture and Business Processes Analysis
Enterprise System Integration: Issues and Answers
Information Security and Privacy
Information Systems Success and Benefits Realization
IT and Project Management
IT Governance and its Mechanisms
Managing Platforms and Ecosystems
Organizational Issues of Business Intelligence, Business Analytics and Big Data
Practice-based IS Research
Social-Technical Issues in Organizational Information Technologies
Strategy, Information, Technology, Economics, and Society (SITES)
The Dark Side of Information Technology
Theory and Information Systems
Topics in Organizational Systems and Technology
Trust, Identity, Trusted systems in Digital Environments
Software Technology Track
Agile and Lean: Organizations, Products and Development
Cybersecurity and Software Assurance
Cyber Threat Intelligence and Analytics
Cyber-Assurance for Internet of Things and Fog Computing Architectures
Cyber-of-Things: Cyber Crimes, Cyber Security and Cyber Forensics
Frontiers in AI and Software Engineering (FAISE'18)
IS Risk and Decision-Making
Metrics, Models, and Simulation for Cyber-Physical Systems
Security and Critical Infrastructure for Cloud, IoT and Decentralized Trust
Software Development for Mobile Devices, Wearables, and the Internet-of-Things
Software Product Lines and Platform Ecosystems: Engineering, Services, and Management
Turning Smart: Challenges and Experiences in Smart Application Development
Wireless Networks

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Floor Plan of Meeting Space
| Time           | Location | Session 1                                                                 | Session 2                                                                                                                                                                                                                                                                                                                                 | Session 3                                                                                                                                                                                                                                                                                                                                  | Session 4                                                                                                                                                                                                                                                                                                                                 | Session 5                                                                                                                                                                                                                     |
|---------------|----------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:15 - 10:45 |          | COFFEE BREAK                                                              |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |
| 12:00 - 1:00  |          | LUNCH ON YOUR OWN, BUT PRE-ORDER IS AVAILABLE DURING THE COFFEE BREAK    |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |
| 2:15 - 2:45   |          | COFFEE BREAK                                                              |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |
| 4:20 - 5:00   |          | Meeting - Track Chairs & Minitrack Chairs                                | Electronic Government                                                                                                           | Collaboration Systems and Technologies                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          | Decision Analytics, Mobile Services, and Service Science                                                                                                                                                     | Organizational Systems and Technology                                                                                                                                                                                      |
| 5:00 - 5:30   |          | Meeting - Minitrack Chairs & Authors                                      | Electronic Government                                                                                                           | Collaboration Systems and Technologies                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          | Decision Analytics, Mobile Services, and Service Science                                                                                                                                                     | Organizational Systems and Technology                                                                                                                                                                                      |
| 6:00 - 7:00   |          | WELCOME RECEPTION AT LAGOON LANAI, 1-HOUR HOSTED BAR, COURTESE OF HILTON WAIKOLOA VILLAGE |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |

**Notes:**
- Sessions times are in hours and minutes.
- Sessions are scheduled for specific locations listed in the schedule.
- Sessions are divided into different tracks and minitracks for specialized topics.
- Coffee breaks are provided at specified times.
- Lunch is offered outside the scheduled times but pre-orders are available during the coffee break.
- Welcome receptions are included at the end of the schedule.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9:00 - 10:15</td>
<td>COFFEE BREAK</td>
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<tr>
<td>10:15 - 10:45</td>
<td>Internet of Things in Education: The Current State and the Future</td>
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<tr>
<td>10:45 - 12:00</td>
<td>Using Big Data Analytics to Map the Emerging Body of Knowledge Digital Transformation</td>
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<tr>
<td>1:00 - 2:15</td>
<td>Computational Social Science Meets Social Dilemmas: Integrating Simulations, Experiments, and Big Data Analyses</td>
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<td>2:15 - 2:45</td>
<td>COFFEE BREAK</td>
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<tr>
<td>2:45 - 4:00</td>
<td>Text Mining Opportunities and Challenges in Big Data Analytics</td>
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<tr>
<td>4:20 - 5:00</td>
<td>Social Media and Healthcare: A Research Agenda</td>
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<td>5:00 - 5:30</td>
<td>Social Media and Healthcare: A Research Agenda</td>
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<tr>
<td>6:00 - 7:00</td>
<td>WELCOME RECEPTION AT LAGOON LANAI, 1-HOUR HOSTED BAR, COURTESY OF HILTON WAIKOLOA VILLAGE</td>
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**Wednesday, January 3, 2018**

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<tr>
<th>Venue</th>
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<tbody>
<tr>
<td>Queen’s 4</td>
<td>Digital Entrepreneurship: A Research Agenda</td>
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<tr>
<td>Queen’s 5</td>
<td>Internet of Things in Education: The Current State and the Future</td>
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<tr>
<td>Queen’s 6</td>
<td>IT as the Driver of Innovation for Digital Transformation Across the Enterprise</td>
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<td>Waikoloa 2</td>
<td>Using Fuzzy Cognitive Map Modeling to Promote System Learning, Public Participation, and Problem Solving in Socio-environmental Systems</td>
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<td>Waikoloa 3</td>
<td>The Sixth Symposium on Sustainable Energy and Computing (SSEC)</td>
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<tr>
<td>King’s 1</td>
<td>Text Mining Opportunities and Challenges in Big Data Analytics</td>
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<td>King’s 2</td>
<td>Social Media and Healthcare: A Research Agenda</td>
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<td>King’s 3</td>
<td>Social Media and Healthcare: A Research Agenda</td>
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<tr>
<td>Water’s Edge Boardroom</td>
<td>CAST: Credibility Assessment and Screening Technologies</td>
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**Lunch on your own, but pre-order is available during the coffee break**
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<th>4-Jan</th>
<th>Kohala 1</th>
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<td>Queen's 4</td>
<td>DSM: Ignite Talks&lt;br&gt;IN 8: Global, International, and Cross-Cultural Issues in IS</td>
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<td>Queen's 5</td>
<td>ST 1: Agile and Lean: Organizations, Products and Development</td>
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<td>Queen's 6</td>
<td>IN 18: Truth and Lies: Deception and Cognition on the Internet</td>
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<td>Kiwoko 2</td>
<td>CL 1: Best and Next Practices in Online Education: Opportunities and Challenges</td>
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<td>Kiwooko 3</td>
<td>HC 3: Global Health IT Strategies</td>
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<td>King's 1</td>
<td>ES 1: Markets, Policy, and Computation (Energy Systems Optimization)</td>
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<td>King's 2</td>
<td>KS 11: Knowledge Management and Strategic Planning</td>
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<td>King's 3</td>
<td>KS 1: Analytics in Support of Continuous Knowledge Creation</td>
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<td>Water's Edge Boardroom</td>
<td>KS 15: Research Data and Knowledge Systems</td>
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<td>Queen's 6</td>
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<td>OS 13: Information Systems Success and Benefits Realization</td>
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<td>HC 4: Health Behavior Change Support Systems</td>
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## Saturday, January 6, 2018

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| 8:00 - 9:30   | DSM 16: Social Media: Culture, Identity, and Inclusion  
                IN 5: Electronic Marketing  
                OS 28: The Dark Side of Information Technology  
                DSM 17: Social Movements and Social Technologies  
                HC 15: Personal Health Management and Technologies  
                Electric Energy Planning Session  
                KS 10: Knowledge Management and Information Security |
| 9:30 - 10:00  | COFFEE BREAK                                                                                      |
| 10:00 - 11:30| DSM 11: Mediated Conversation  
                IN 6: Electronic Marketing  
                IN 4: Distributed Ledger Technology, the Blockchain  
                OS 29: The Dark Side of Information Technology  
                ST 8: IS Risk and Decision-Making  
                ST 13: Software Product Lines: Engineering, Services, and Management  
                HC 16: Personal Health Management and Technologies  
                KS 14: Reports from the Field |
| 11:30 - 12:30| BUFFET LUNCH                                                                                      |
| 12:35 - 12:55| BEST PAPER AWARD CEREMONY                                                                          |
| 1:00 - 2:30   | DSM 14: Social Media and Communities  
                IN 13: Social Shopping: The Good, the Bad, and the Ugly  
                OS 3: Blockchain and Fintech  
                OS 21: Practice-based IS Research  
                ST 9: Metrics, Models, and Simulation for Cyber-Physical Systems  
                HC 6: Health Technologies that Interface Patients and Providers  
                KS 12: Knowledge Society, Culture, and Knowledge Systems |
| 2:30 - 3:00   | COFFEE BREAK                                                                                      |
| 3:00 - 4:30   | DSM 15: Social Media and Communities  
                IN 14: Social Shopping: The Good, the Bad, and the Ugly  
                IN 17: The Digital Supply Chain of the Future: Technologies, Applications and Business Models  
                HC 14: IT-Enabled Healthcare Coordination  
                KS 13: Organizational Learning |
| 6:00 - 7:00   | LUAU AT LAGOON LANAI                                                                               |
Humans are on the cusp of augmenting their lives in extraordinary ways with Artificial Intelligence. Machine Learning and cognitive computing allow novices to employ the knowledge of experts, enabling better decisions in healthcare, finance, education and more. Educators and employers need to deal with how digital disruption and AI will continue to influence the way people live and work. We have not even begun to experience the depth in which AI will change and influence everything we do, and yet we can already reveal some extraordinary outcomes.

Inhi began her career with IBM in 1998, joining the worldwide customer set strategy team for IBM’s Personal Systems Group. She then went on to hold a variety of leadership and management positions focused on strategic growth, development and marketing. Most recently, Inhi was the Vice President for Big Data, Information, Integration and Governance in IBM Software Group, responsible for all areas of the business. Prior to joining IBM, Inhi was a consultant in the education sector focused on international student teaching and counseling for university and professional institutions. Inhi received a Bachelor of Science from Duke University and a Juris Doctorate from North Carolina Central University School of Law. She is a licensed attorney in the state of North Carolina.
Larry Smarr | California Institute for Telecommunications and Information Technology (Calit2), a UC San Diego/UC Irvine Partnership

**A Global Research Platform for Big Data Analysis**

**Friday | January 5, 2018 at 12:45 - 1:50**

**Monarchy Ballroom**

The exponential rise of Big Data demands new technological solutions in visualization, machine learning, and high performance cyberinfrastructure. I will describe how my NSF-funded Pacific Research Platform (PRP) can provide an Internet platform with 100-1000 times the bandwidth of today’s commodity to support Big Data application needs for multi-institutional research teams from particle physics to climate to human health. NSF is also funding a Cognitive Hardware and Software Ecosystem Community Infrastructure (CHASE-CI) to be built on top of the PRP, adding GPU and non-von Neumann machine learning capabilities to enable distributed Big Data Analytics. We are scaling this cyberinfrastructure prototype to a National and Global Research Platform.

Larry Smarr holds the Harry E. Gruber professorship in Computer Science and Engineering (CSE) at UC San Diego. He was Professor of Physics and Astronomy and founding director of the National Center for Supercomputing Applications (NCSA) at UIUC. His is a member of the National Academy of Engineering, and a Fellow of the American Physical Society, the American Association for the Advancement of Science, and the American Academy of Arts and Sciences. He received the IEEE Computer Society Tsutomu Kanai Award for his lifetime achievements in distributed computing systems (2006), and the Golden Goose Award (2014). He served on the Advisory Council to 4 NASA Administrators, and chaired the NASA I.T. Infrastructure Committee and the NSF Advisory Committee on Cyberinfrastructure. For 8 years, he was a member of the NIH Advisory Committee to the NIH Directors.
SYMPOSIA, WORKSHOPS, & TUTORIALS

BIG DATA
COMPUTING TECHNOLOGIES
ELECTRONIC GOVERNMENT
SECURITY
INNOVATION & SUSTAINABILITY
SCIENTIFIC INQUIRY & RESEARCH METHODS
IT & SOCIETY

WHERE IDEAS MEET AND SCIENCE SPEAKS
This tutorial will look at some of the key components that an organization should have in place to build an enterprise level BDA program. It is 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.)

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 tutorial intends to inform and guide researchers and practitioners in the practice of interdisciplinary visual analytics research and development. The far-reaching and practical applications of visual analytics technologies will be discussed.

This half-day tutorial aims to provide attendees with a deeper understanding of what “lies beyond” data science and advanced analytics. It addresses how to make smart data and its processing systems self-reflective, adaptive, and semi-autonomous in order to reduce the continuing analytical burden, improve data management processes, and enable data to be reactive rather than passive. The first session will present several definitions for smart data, present a conceptual model for processing it, and describe technologies that can serve as a foundation for implementing smart data. The second session will examine the types of open source technology that can be used to implement a smart data system and identify some of the challenges and limitations of the architectures and the proposed or available technologies.
Continuous Delivery Analytics
Anand Sharma, Atul Sethi

**KONA 2**  **WEDNESDAY, 1:00 – 4:00**

Software delivered using Continuous Delivery provides an extremely fertile environment of data about the Software and the Software Developers that built it. Continuous Delivery Analytics (CDA) taps into that data and provides an API-rich UI and data foundation layer yielding actionable insights into the Quality, Speed and Security of a software as well as productivity of software developers. This symposium will showcase how Cisco IT implemented Enterprise class Continuous Delivery Pipeline and Practices. Participants will learn about Cisco IT’s Challenges Prior to Implementing CD, an organizational culture that celebrates continuous innovation, as well as process and technology in CD pipeline and the Build-Measure-Learn Feedback Loop using Cisco Continuous Delivery Analytics.

**Text Mining Opportunities and Challenges in Big Data Analytics**
Derrick Cogburn, Normand Peladeau, Michael Hine

**KING’S 2**  **WEDNESDAY, 9:00 – 4:00**

This full-day HICSS tutorial will provide participants with a solid introduction to the opportunities and challenges of text mining, within the broader context of big data analytics. The Morning Session is designed as a broad introduction to text mining. A Working Luncheon will present an overview of the types of commercial and open source tools available for acquiring social media and unstructured data and for conducting text analysis. The Afternoon Session is a hands-on session. It will focus on categorization model (or dictionary) development and deployment. Bring your computer and data!

**COMPUTING TECHNOLOGIES**

Computing in Smart Toys
Patrick Hung, Marcelo Fantinato, Farkhund Iqbal, Jean-Henry Morin

**KONA 5**  **WEDNESDAY, 9:00 – 12:00**

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.

**Using Fuzzy Cognitive Map Modeling to Promote System Learning, Public Participation, and Problem Solving in Socio-environmental Systems**
Antonie Jetter, Steven Graya, Elpiniki Papageorgioub

**WAIKOLOA 3**  **WEDNESDAY, 9:00 – 12:00**

The goals of this tutorial is to promote the use of Fuzzy Cognitive Map (FCM) as an approach to (a) teaching about complex socio-environmental systems (b) modeling complex socio-environmental systems and (c) integrating stakeholder and interdisciplinary knowledge in socio-environmental research. It will review key concepts associated with FCM (e.g. fuzzy logic, neural networks, expert systems, semantic networks, graph theory), introduce FCM based software tools (Mental Modeler and FCM Wizard), and provide an outlook on the advanced analytical capabilities of FCM (e.g. structural and behavioral analysis, use in artificial intelligence, learning algorithms).
Cognitive Computing has flourished in all industries, but especially in Healthcare and Education. Cognitive Systems can digest enormous amounts of data and then analyze, reason, and continue to learn. Top cognitive/artificial intelligence experts from IBM who are developing, researching, and using Cognitive Systems in Healthcare and Education will describe the incredible benefits that cognitive systems are providing today. Challenges in developing such systems will also be discussed.

This session will provide an overview of IBM’s efforts to develop, mature and accelerate the early adoption and use of Quantum Computers. This includes a brief history of IBM’s Quantum Computing program along with a description of our Quantum systems and the software development environment and tools. Participants will learn how to leverage the IBM Quantum Experience and open software to begin developing programs, curriculum and content.

IBM is a proud sponsor of HICSS, one of the longest standing scientific communities in the information systems and technology fields. As you plan your HICSS experience, IBM invites you to exchange ideas in compelling new research areas.

At HICSS-51, key sessions where the IBM team will participate include:

- **A Workshop on Cognitive Systems in Healthcare and Education** featuring 4 IBM technology executives who are developing, researching, and using Cognitive Systems | Wednesday, January 3, 1:00 – 4:00 pm in Kona 5
- **A Minitrack on Smart Service Systems: Analytics, Cognition, and Innovation** | Thursday, January 4, 8:00 – 9:30 am in Kona 3
- **A Minitrack on Business Intelligence, Analytics, and Cognitive: Case Studies and Applications (COGS)** | Thursday, January 4, 10:00 – 11:30 am in Kona 3
- **A special session on Quantum Computing** led by IBM Research | Thursday, January 4, 4:00 – 5:00 pm in Kohala 3

Please drop by the IBM Technology Desk to learn how to gain access to exciting new IBM technologies such as Quantum, Blockchain, and Artificial Intelligence/Cognitive Systems. We encourage you to explore today! Go to [http://onthehub.com/ibm/](http://onthehub.com/ibm/) and use your school’s credentials to access more than 200 of the latest IBM technology assets for academics, including extended IBM Cloud access with the Watson APIs and tutorials.

Learn about IBM university programs at [http://www.ibm.com/university/](http://www.ibm.com/university/) In addition, the innovative IBM Skills Academy, featuring 16 STEM career paths, can be found at [http://www.ibm.biz/ibmskillsacademy](http://www.ibm.biz/ibmskillsacademy)

We hope to see you at any or all of the HICSS sessions and at the IBM Technology Booth. Have a great conference!

Naguib Attia, Vice President, and the IBM Team
IBM Global University Programs
The new generation of Artificial Intelligence, Deep Learning, and Cognitive Computing will soon touch every aspect of business. This is because these systems can ingest and understand all forms of data, which is being produced at an unprecedented rate. They learn from their own experiences, their interactions with humans, and the outcomes of their judgments to enhance and extend human entrepreneurial capabilities, expertise and potentials. This symposium will discuss the evolution and adoption of AI in entrepreneurship. It will explore an example from Bizgenics Genome Initiative. Technologies that support the development of intelligent entrepreneurial systems will be introduced.

Enterprise Decision Support Systems and Data Analytics Tools for Resilient System Architecture and Acquisition Strategy Assessment

Tien Nguyen, Sumner Matsunaga, Todd Nygren

This half-day symposium program is organized for the SMEs to share their research works relevant to big data analytics, enterprise system engineering and decision support framework-and-tool challenges for the development of resilient space system architecture. Various decision support frameworks and tools for acquisition strategy assessment that are applicable to civil, military and commercial applications as well as the challenges associated with the development of Enterprise System Engineering, Advanced Decision Support frameworks, analytical-and-simulation tools that can be used to support decision making for resilient system architectures will be discussed.

Smart Cities and Smart Governments: The Enabling Role of Research and Practice Collaborations in the Urban Context

Mila Gascó, J. Ramon Gil-Garcia, Theresa Pardo

This workshop will contribute to the development of such partnerships by bringing together researchers and practitioners to explore the joint development of smart programs and projects. It will present current opportunities and challenges of smart cities and how a research practice partnership is contributing to cities that become smarter. Attendees will participate in presentations and discussions to identify common issues and opportunities for research-practice collaborations.

A platform to share professional experiences, address challenges, and discuss opportunities presented to women in the IS field

• Strengthening career strategies for women in higher education and in the private sector
• Ensuring equality and diversity
• Obtaining tenure and promotion
• Dealing with hiring and negotiating salaries
• Advocating for women in our field
• Managing work-life balance challenges
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, & 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
Information Technology for the Informal Sector in Developing Countries
Priya Seetharaman, Maria Alexandra Cunha, John Effah

KONA 1  WEDNESDAY, 9:00 - 12:00

During this workshop, the role of information technology in aiding the progress of the informal sector and mitigating the challenges they face will be discussed. Theoretical approaches, overview of extant research, potential gaps and case studies will be reviewed. Completed research, research in progress, research cases and demonstrations relating to the workshop theme will be presented.

IT as the Driver of Innovation for Digital Transformation Across the Enterprise
Yassi Moghaddam, Heather Yurko, Jyoti Sarin, Terri Griffith

QUEEN’S 4  WEDNESDAY, 1:00 - 4:00

This workshop intends to explore the strategic business opportunities and management challenges associated with managing a diverse and evolving digital workforce. Topics of discussion may include workforce diversity; new digital talent metrics and talent analytics; remote workers and the virtual workforce; offshoring and shifting skill composition and relationships with a global workforce; work displacement, destruction, and creation; how firms are flexing to manage an aging workforce and skill drain; AI, robotics, mixed-reality and machine-human adaptation for productivity and job satisfaction; and increasing the firm’s “Digital IQ” (REF PwC) through managing user experience of customers, employees, and culture.

Social Media and Healthcare: A Research Agenda
Priya Nambisan, Rama Jayanti, Gerald Kane, Jeffrey Treem

KING’S 3  WEDNESDAY, 1:00 - 4:00

The primary goal of this symposium is to delineate the contours of a research agenda on social media and healthcare. The presentations will address research themes, issues and concepts related to social media and patient engagement; caregiver participation in social media; customer relationship management and social media; and design of social media applications for healthcare.
Using Big Data Analytics to Map the Emerging Body of Knowledge of Digital Transformation
Gerhard Gudergan, Paul Mugge

The intention of this workshop is to use IBM Watson to scan the worldwide web to capture the advances in Digital Transformation being made globally by researchers at universities and colleges. Participants will have fun, learn a lot about the subject of Digital Transformation, and be part of a big step toward classifying and tracking the advances of the many disciplines, i.e. marketing, strategy, human resources, entrepreneurship, organizational development, as well as the many fields of information systems that make up this complex domain.

Internet of Things in Education: The Current State and the Future
Mohamad Kassab, Joanna DeFranco

The purpose of this workshop is to discuss the most common scenarios where IoTs is a candidate to be applied in Education and how IoTs may affect positively or negatively the overall learning experience. It will touch upon different ways IoTs can improve the learning experience for students with learning disability and increase the educational motivation of minorities and those who have educational access issues. The investigation will be structured around the seven teaching principles related to the areas of: 1) prior knowledge, 2) knowledge organization, 3) course climate 4) motivation, 5) mastery, 6) practice and feedback, and 7) self-directed learning. The results and analysis of a systematic literature review in the topic of Internet of Things in Education will be presented throughout the workshop.

SCIENTIFIC INQUIRY AND RESEARCH METHODS

Digital Methods “Best Practices”
Shawn Walker, Mary Gray, Robert Mason

The workshop will focus on best practices for studying digital and social media that go beyond the application of existing methods while producing rigorous insights. Technical and ethical challenges that arise from studying cross-platform, digital and social media phenomenon will be highlighted. The output of this workshop will be an open, “co-authored” group syllabus built on contributed readings and case studies discussed in the workshop.

Evaluation of Artifacts in Design Science
Gondy Leroy

This tutorial will present how to conduct evaluations that fit within the design science paradigm, i.e., evaluations of algorithms and entire systems. It will provide a basic overview of evaluation studies and how they are appropriate in the different phases of development life cycle that the research/development is situated in. A practical section will be added to discuss the common statistics to be used in different setups and mistakes that can be avoided. Both contribute to designing and executing a better study.
Computational Social Science Meets Social Dilemmas: Integrating Simulations, Experiments, and Big Data Analyses
Isamu Okada, Fujio Toriumi

This symposium provides a forum to discuss the possibility of using natural sciences, computational sciences in particular, to tackle specific social dilemmas.

SECURITY

5G and User Controlled Privacy
Knud Erik Skouby, Lene Tolstrup Sørensen, Samant Khajuria

KOHALA 3  WEDNESDAY, 9:00 – 12:00
The Workshop is based on the development of 5G technologies and infrastructures, changing human interaction with technologies. Throughout the workshop, the essential challenges and options in user controlled privacy needed for the future 5G networks will be discussed.

Competitions and Games
Greg White, Keith Harrison

KOHALA 2  WEDNESDAY, 9:00 – 12:00
The tutorial is designed to aid instructors in learning more about cybersecurity competitions and games in order to select the ones that best fit their own learning objectives. It will address the following questions:
• How do I choose the right competition or game for my program?
• How do I bring competitions or games into my classroom?

Cybersecurity Big Data Analytics
Mark Patton, Hsinchun Chen

KOHALA 4  WEDNESDAY, 9:00 – 12:00
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.

Certified Security by Design for Internet of Security
Tyson Brooks, Shiu-Kai Chin, Erich Devendorf

KOHALA 4  WEDNESDAY, 1:00 – 4:00
The objective of this tutorial is to demo an unmanned aerial vehicle (UAV) command, control, and communication (C3) from top-level concept of operations (ConOps) to flying/deploying UAVs and payloads. The demo will display its methods, experiences, and results in a coalesce mathematical methods and design examples to enable practicing engineers to routinely design secure systems with predictable results.

Virtual Lab Automation and Design
Glenn Dardick, Gary Kessler

KOHALA 2  WEDNESDAY, 9:00 – 12:00
The workshop will provide an overview of the ERAU Virtual Lab currently used for Cyber Forensics and Cybersecurity Courses. Topics that will be discussed include the components of the virtualization of the Lab, costs of a Virtual VM Lab, a design of VMs for a 24/7 Virtual Lab environment, automation of building VM environments for groups, a design of Multi-VM Network student environments, use of IDS/IPS firewalls by students within their VM environment, and results of implementing Virtual Labs.
Cybersecurity will Change the Future of Computing

Robert Runser

KONA 1  WEDNESDAY, 1:00 - 2:15

This panel will discuss the wave of recent cyber attacks, the lessons learned from them, and propose solutions that will influence the future of computing. It will explore areas in computing and networking in most need of research investment to improve system security. Topics of discussion will include secure operating systems, virtualization, secure hardware, Internet of Things, cybersecurity education and training, and defense in depth security models. Panelists will also consider disruptive innovations to address cyber threats including artificial intelligence-enabled active defense systems, managed security services, data privacy protections, disposable computing, and cyber defense crowdsourcing. Finally, the panelists will describe ways the federal government is partnering with industry and academia to improve cybersecurity education and defense capabilities.

Credibility Assessment and Screening Technologies (CAST)

Jay Nunamaker, Judee Burgoon, Thomas Meservy, Jeffry Proudfoot

WATER’S EDGE BOARDROOM  WEDNESDAY, 9:00 - 4:00
THURSDAY, 8:00 - 11:30

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.

MEET THE EDITORS

LAGOON LANAI  FRIDAY JANUARY 5, 6:00 - 7:00

Join us in a special 1-hour session to meet guest editors and learn more about opportunities to fast track HICSS papers to journal publications in some areas of research. Participating journals include:

- A Special Issue in Health and Technology published by Springer
- A Special Issue in Health Information Science and Systems (Technical Track)
- A Special Issue of the INFORMS Journal Service Science
- AIS Transactions on Human-Computer Interaction
- British Medical Journal (BMJ) Innovations (Application Track)
- Decision Sciences Journal (DS)
- Electronic Journal of Information Systems in Developing Countries
- Electronic Markets – The International Journal on Networked Business (EM)
- European Journal of Information Systems (EJIS)
- Gamification
- Special Issue in the Journal of Business Research
- Group Decision and Negotiation (GDN)
- Health Policy and Technology
- Information System Frontiers (ISF): Special Issue on ‘Data Analytics in Behavioral Research’
- Information Systems Management
- Information Technology for Development Journal (ITD)
- International Journal of Internet of Things and Cyber-Assurance
- International Journal of Web-Based Learning and Teaching Technologies (IJWLTT)
- Internet Research
- Journal of Electronic Commerce Research
- Journal of Enterprise Transformation
- Journal of Management Information Systems
- MIS Quarterly Executive (MISQE)
- Special issue in Health and Technology by Springer
- Special issue of the Journal of Global Information Technology Management
- The DATABASE for Advances in Information Systems
Best and Next Practices in Online Education: Opportunities and Challenges
Minitrack Chairs: Mahesh Raisinghani, Efosa Idemudia

CL 1 WAIKOLOA 3 THURSDAY, 8:00 - 9:30

AI Thinking for Cloud Education Platform with Personalized Learning | Paul Rad, Mehdi Roopaei, Nicole Beebe, Mehdi Shadaram, Yoris Au

Flow in Business Simulation Games: Comparison between Online and Face-to-Face MBA | Joo Baek Kim, Edward Watson

Enabling Workers to Enter Industry 4.0: A Layered Mobile Learning Architecture | Andreas Engelmann, Gerhard Schwabe

Communication and Information Systems Technology for Crisis and Disaster Management
Minitrack Chairs: Julie Dugdale, Elsa Negre, Murray Turoff

CL 2 KOHALA 2 THURSDAY, 8:00 - 9:30

Disaster E-Health Framework for Community Resilience | Tony Norris, Jose Julio Gonzalez, Santiago Martinez, Dave Parry

Conceptualizing and Designing a Resilience Information Portal | Tim Majchrzak, Mihoko Sakurai, Nicolas Serrano

The Good, the Bad and the Indispensable - Insights into the Practical Potential of Emergency Response Information Systems and Drones for Firefighters | Julian Weidinger, Sebastian Schlauderer, Sven Overhage

CL 3 KOHALA 2 THURSDAY, 10:00 - 11:30

Agent-based Analysis of the Spread of Awareness in the Population in the Prodromal Phase of Bushfires | Carole Adam, Julie Dugdale

Population Behaviors in Crisis Situations - A Study of Behavioral Factors in the PPI Ineos Emergency Response Exercise | Maude Arru, Elsa Negre, Camille Rosenthal-Sabroux

**Social Networking Sites in the Aftermath of a Crisis - The Enabling Role for Self-organization | Diana Fischer

CL 4 KOHALA 2 SATURDAY, 8:00 - 9:30

How Does Collaborative Cheating Emerge? A Case Study of the Volkswagen Emissions Scandal | Christopher Castille, Andrew Fultz

How Does Corporate Social Responsibility Promote Innovation? The Sequential Mediating Mechanism of Employees' Meaningfulness of Work and Intrinsic Motivation | Byung-Jik Kim, Young Kyun Chang, Tae-Hyun Kim

Creativity Tests versus Cognitive Computing: How Automated Personality Mining Tools Can Enhance Team Composition | Rangina Ahmad, Dominik Siemon, Susanne Robra-Bissantz

**Development and Validation of the Information Systems Creative-Self-Efficacy Scale | Katherine Carl Payne, Mark Keith, Jeffry Babb, Alexandra Spruill

Cross-Organizational and Cross-Border IS/IT Collaboration
Minitrack Chair: Ilsang Ko, Daniel Beimborn

CL 5 KOHALA 4 SATURDAY, 8:00 - 9:30

Psychological Contract in IT Outsourcing: A Systematic Literature Review | Jongkil Jeong, Sherah Kurnia, Danny Samson, Sara Cullen

A Systematic Literature Review to Understand Cross-organizational Relationship Management and Collaboration | Bruna Diirr, Claudia Cappelli

Examining Collaboration in Interdisciplinary Product Development Focusing on Dependencies | Guenther Schuh, Michael Riesener, Christian Mattern

Adoption of Collaborative Technology to Enhance Master Data Quality Across Municipal Administrations - Identifying Drivers and Barriers | Christian Meske, Robert Heidekrüger, Tobias Brockmann, Matthias Czerwonka, Stefan Stieglitz

** Best Paper Nomination
Data Science and Analytics for Collaboration
Minitrack Chair: Lakshmi Iyer, Souren Paul, Lina Zhou

CL 6  WAIKOLOA 3  THURSDAY, 10:00 - 11:30
The Effect of Enterprise Crowdsourcing Systems on Employees’ Innovative Behavior and Job Performance | Vetrivadivel Vel, Insu Park, Jun Liu
Topic Analysis through Streamgraph via Shiny Application: a Social Collaborative Approach | Olga Scrivner, Vinita Chakilam, Nilima Sahoo, Stephan De Spiegeleire
A Communication Model that Bridges Knowledge Delivery between Data Miners and Domain Users | Scarlett Kelly

CL 7  WAIKOLOA 3  THURSDAY, 2:00 - 3:30
Special Presentation: A Self-Learning Visual Tool with Crowd Sourced Recommendations for Collaborative Cause Analysis | Julie Basu

CL 8  WAIKOLOA 3  FRIDAY, 8:00 - 9:30
Software Support for Skeleton Recognition and Monitoring People with Privacy | Yoshihisa Nitta, Yuko Murayama
Exploring the Nuances of 'Wickedness' in Information Systems Development | Stephen McCarthy, Paidi O’Raghallaigh, Ciara Fitzgerald, Frédéric Adam
The Change in Communication Patterns in Teams Implementing Lean | Jorge Colazo

CL 9  KOHALA 3  FRIDAY, 10:00 - 11:30
Artifact Sampling: Using Multiple Information Technology Artifacts to Increase Research Rigor | Roman Lukyanenko, Jeffrey Parsons, Binny Samuel
CLUE: A Usability Evaluation Checklist for Multimodal Video Game Field Studies with Children Who Are Blind | Ticianne Darin, Rossana Andrade, Jaime Sánchez

CL 10  KOHALA 3  FRIDAY, 2:00 - 3:30
Visual Aesthetics of E-Commerce Websites: An Eye-Tracking Approach | Ilias Pappas, Kshitij Sharma, Patrick Mikalef, Michail Giannakos
Robust User Identification Based on Facial Action Units Unaffected by Users’ Emotions | Ricardo Buettner
Imaginary Versus Virtual Loci: Evaluating the Memorization Accuracy in a Virtual Memory Palace | Jan-Paul Huttner, David Pfeiffer, Susanne Robra-Bissantz

CL 11  KOHALA 3  FRIDAY, 4:00 - 5:30
The Influence of Conversational Agents on Socially Desirable Responding | Ryan M. Schuetzler, Justin Scott Giboney, G. Mark Grimes, Jay Nunamaker
A Thumb Stroke-Based Virtual Keyboard for Sight-Free Text Entry on Touch-Screen Mobile Phones | Jianwei Lai, Dongsong Zhang, Sen Wang, Isil Yakut Kilic, Lina Zhou
Interactive Experiences in Public Spaces: A Novel Floor Display System Based on Luminous Modular Units | Jorge Camba, Jeff Feng, EunSook Kwon

CL 12  KOHALA 2  THURSDAY, 2:00 - 3:30
Operational Mechanism of Digital Humanistic Crowdsourcing Project Based on Actor Network Theory | Xiaojuan Xu, Hui Gao, Jianshan Sun, Cuicui Wang, Wei Xu
The Role of Collaboration between Incumbent Firms and Start-ups on Customers’ Adoption of Digital Innovation | Nihal Islam, Peter Buxmann
Can Process Facilitation Improve Globally Distributed Collaboration? An Action Design Research | Xusen Cheng, Shixuan Fu, Jianqing Huang, Gert-Jan de Vreede
Does Daily Travel Pattern Disclose People’s Preference? | Mingxin Gan, Ling Gao, Yang Han

** Best Paper Nomination
Towards Agent-based Large-scale Decision Support System: The Effect of Facilitator | Takayuki Ito

Group Atmosphere, Shared Understanding, and Team Conflict in Short Duration Virtual Teams | Souren Paul, Fang He, Alan Dennis

Conflict and Team Atmosphere in Teams Engaged in Outsourcing | Harold Carr Osborn, Souren Paul

Team Faultline Measures: The Effect of Rescaling Weights | Keivan Bahmani, Zhaleh Semnani-Azad, Katia Sycara, Michael Lewis

Processes and Technologies for Small and Large Team Collaboration
Minitrack Chair: Douglas Derrick, Joel Helquist, Christopher Diller


**Designing Tools for Collectively Solving Ill-Structured Problems | Hazbi Avdiji, Dina Elikan, Stéphanie Missonier, Yves Pigneur

Collaboration Engineering: Reflections on 15 Years of Research & Practice | Gert-Jan de Vreede, Robert Briggs


**Examining Trust and Reliance in Collaborations between Humans and Automated Agents | J S Elson, Douglas Derrick, Gina Ligon

Connecting with Coworkers on Social Network Sites: Strategies, Social Norms and Outcomes on Work Relationships | Ariane Ollier-Malaterre, Kassandra Luneau-De Serre

The Effect of Software Team Personality Composition on Learning and Performance: Making the "Dream" Team | Greg Anderson, Mark Keith, Julianne Fancisco, Sarah Fox

The Effects of Different Emoticons on the Perception of Emails in the Workplace | Claus-Peter Ernst, Martin Huschens

**Trusting in Machines: How Mode of Interaction Affects Willingness to Share Personal Information with Machines | Juliana Schroeder, Matthew Schroeder

Social and Psychological Perspectives in Collaboration Research
Minitrack Chair: Triparna de Vreede, Gert-Jan de Vreede, Paul Spector

Passive, Active, or Co-Active? The Link Between Synchronous User Participation and Willingness to Pay for Premium Options | Simon Bründl

Differences in the Reasons of Intermittent versus Permanent Discontinuance in Social Media: An Exploratory Study in Weibo | Zhongyun Zhou, Mingzhu Yang, Xiao-Ling Jin

Digital Fluency and Social Media Use: An Empirical Investigation of WeChat Use | Aoyan Liu, Yan Li, Hua Ye

Crisis Communication on Twitter during a Global Crisis of Volkswagen - The Case of "Dieselgate" | Stefan Stieglitz, Milad Mirbabaie, Tobias Potthoff

** Best Paper Nomination
**Classifying Motivations in Social Product Development Networks: A Discriminant Analysis of Actor Profiles** | Kaveh Abhari, Elizabeth Davidson, Bo Xiao

The Secret of Internet Celebrities: A Qualitative Study of Online Opinion Leaders on Weibo | Ruohan Li

Virtual Collaboration with Mobile Social Media in Multiple-Organization Projects | Zhaojun Yang, Jun Sun, Yali Zhang, Ying Wang

Technology Mediated Collaborations in Healthcare and Wellness Management | Souren Paul, Arkalgud Ramaprasad, Nilmini Wickramasinghe

**A Scorecard Method for Detecting Depression in Social Media Users** | Netsanet Legesse Tefera, Lina Zhou

**What are the Gaps in Mobile Patient Portal? Mining Users Feedback using Topic Modeling** | Cherie Noteboom, Mohammad Al-Ramahi

**Detailed Perceptions by Health Service Providers Around EHRs: A Case Study of Australia’s e-health Solution** | Imran Muhammad, Nilmini Wickramasinghe

Text Mining in Big Data Analytics | Derrick Cogburn, Michael Hine, Normand Peladeau, Victoria Yoon

On the Patent Claim Eligibility Prediction Using Text Mining Techniques | Chia-Yu Lai, San-Yih Hwang, Chih-Ping Wei

Enhancing Scientific Collaboration Through Knowledge Base Population and Linking for Meetings | Ning Gao, Mark Dredze, Douglas Oard

Text Mining Narrative Survey Responses to Develop Engagement Scale Items | John Ford, Doug Nierle, Peter Leeds, Thomas Stetz


The Sharing Economy | Bo Xiao, Eric Lim, Chee-Wee Tan

On Rapport Uncertainty in the Sharing Economy - Extending the Categories of Uncertainty | Alexander Frey, Manuel Trenz, Chee-Wee Tan, Daniel Veit

Emotional Labor in the Sharing Economy | Christoph Lutz, Gemma Newlands, Christian Fieseler

Understanding the Intention to Use Commercial Bike-sharing Systems: An Integration of TAM and TPB | Ying Yu, Wenjie Yi, Yuanyue Feng, Jia Liu

Battle of Sharing Economy: The Contingent Effects of Ride-Sharing on Taxi Industry | Yunseok Lee, Jiyong Park, Byungtae Lee

An Empirical Analysis of the Impacts of the Sharing Economy Platforms on the U.S. Labor Market | Ziru Li, Yili Hong, Zhongju Zhang

**The Impact of Dynamic Two-Sided Platform Pricing on Fairness Perception in the Sharing Economy** | Peter Angerer, Steffen Zimmermann, Gerald Pale, Gina Salomon, Daniel Provin, Wolfgang Kathan, Kurt Matzler

Virtual Teams, Organizations and Networks | Michael Hine, Derrick Cogburn, Alberto Espinosa, Alecia Santuzzi

A Typology of Virtual Research Environments | Iftekhar Ahmed, Marshall Poole, Ashley Trudeau


**Beyond Being There, for "All of Us": Exploring Webconferencing and Mobile Remote Presence Devices for Accessible Global Governance** | Derrick Cogburn

**Best Paper Nomination**
Towards Semi-Virtual Design Thinking - Creativity in Dispersed Multicultural and Multidisciplinary Innovation Project Teams | Beke Redlich, David Dorawa, Dominik Siemon, Christoph Lattemann

Towards a Model of Collaborative Intention: An Empirical Investigation of a Massive Online Open Course (MOOC) | Liana Razmerita, Kathrin Kirchner, Kai Hockerts, Chee-Wee Tan

**Rethinking Media Synchronicity Theory: Examining the Cooperative Assumption** | Jaime Windeler, Andrew Harrison

**Business Intelligence & Analytics Cost Accounting: A Survey on the Perceptions of Stakeholders** | Raphael Grytz, Artus Krohn-Grimberghe

Data Quality Challenges in Twitter Content Analysis for Informing Policy Making in Health Care | Axel Soto, Cynthia Ryan, Fernando Peña Silva, Tapajyoti Das, Jacek Wolkowicz, Evangelos Milios, Stephen Brooks

Leveraging Big Data Analytics to Improve Quality of Care in Health Care: A fsQCA Approach | Yichuan Wang

An Efficient Recommender System Using Locality Sensitive Hashing | Kunpeng Zhang, Shaokun Fan, Harry Jiannan Wang

Feature Enrichment through Multi-gram Models | Thomas Forss

Counting Human Flow with Deep Neural Network | Shing Doong

Smart Objects: An Active Big Data Approach | Stephen Kaisler, William Money, Stephen Cohen

** Best Paper Nomination
## Data, Text, and Web Mining for Business Analytics
Minitrack Chairs: Dursun Delen, Hamed Majidi Zolbanin

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<tr>
<th>DA 6</th>
<th>KONA 2</th>
<th>FRIDAY, 4:00 - 5:30</th>
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<tbody>
<tr>
<td>Data Integration and Predictive Analysis System for Disease Prophylaxis: Incorporating Dengue Fever Forecasts</td>
<td>John Freeze, Madhav Erraguntla, Akshans Verma</td>
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<td>Customer Lifetime Value Prediction in Non-Contractual Freemium Settings: Chasing High-Value Users Using Deep Neural Networks and SMOTE</td>
<td>Rafet Sifa, Julian Runge, Christian Bauckhage, Daniel Klapper</td>
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<td><strong>Quantitative Considerations about the Semantic Relationship of Entities in a Document Corpus</strong></td>
<td>Andreas Schmidt, Steffen Scholz</td>
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### Decision Support for Complex Networks
Minitrack Chairs: Wolfgang Bein, Stefan Pickl

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<th>DA 7</th>
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<tr>
<td>XLab: Early Indications &amp; Warnings from Open Source Data with Application to Biological Threat</td>
<td>Olga Simek, Curtis Davis, Andrew Heier, Sanjeev Mohindra, Kyle O’Brien, John Passarelli, Frederick Waugh</td>
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<td><strong>Proof of Concept for a Visual Analytics Dashboard for Transportation Network Analysis</strong></td>
<td>Marian Sorin Nistor</td>
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<td>Leveraging the Potentials of Dedicated Collaborative Interactive Learning: Conceptual Foundations to Overcome Uncertainty by Human-Machine Collaboration</td>
<td>Adrian Calma, Sarah Oeste-Reiß, Bernhard Sick, Jan Marco Leimeister</td>
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<td>Bayesian Inference for Static Traffic Network Flows with Mobile Sensor Data</td>
<td>Zhen Tan, H.Oliver Gao</td>
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## Decision Support for Smart Cities
Minitrack Chairs: Wei Xu, Jian Ma, Jianshan Sun

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<th>DA 8</th>
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<tbody>
<tr>
<td>Utilizing Geospatial Information in Cellular Data Usage for Key Location Prediction</td>
<td>Yinan Yu, Baojun Ma, Hailiang Chen, Benjamin Yen</td>
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<td>A Novel Personalized Academic Knowledge Sharing System in Online Social Network</td>
<td>Pengfei Zhao, Jian Ma, Zhongsheng Hua, Shijian Fang</td>
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<td>Distraction or Connection? An Investigation of Social Media Use at Work</td>
<td>Manli Wu, Chen Yang, Chuang Wang, J. Leon Zhao, Sisi Wu, Liang Liang</td>
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### Deep Learning, Ubiquitous, and Toy Computing
Minitrack Chairs: Patrick Hung, Shih-Chia Huang, Sarajane Marques Peres

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<th>DA 9</th>
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<tbody>
<tr>
<td>Twitter Connections Shaping New York City</td>
<td>Stanislav Sobolevsky, Philipp Kats, Sergey Malinchik, Mark Hoffman, Brian Kettler, Constantine Kontokosta</td>
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<td>Perceived Innovativeness and Privacy Risk of Smart Toys in Brazil and Argentina</td>
<td>Marcelo Fantinato, Patrick Hung, Ying Jiang, Jorge Roa, Pablo Villarreal, Mohammed Melaisi, Fernanda Amancio</td>
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### Digital Services and the Digitalization of Services
Minitrack Chairs: Tuure Tuunanen, Tilo Boehmann, Ola Henfridsson

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<th>DA 10</th>
<th>KONA 4</th>
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<tbody>
<tr>
<td>Competition Logics during Digital Platform Evolution</td>
<td>Arto Ojala, Kalle Lyytinen</td>
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<tr>
<td>Conceptualizing Resource Orchestration - The Role of Service Platforms in Facilitating Service Systems</td>
<td>Zolnowski Andreas, Warg Markus</td>
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<td>Utilitarian Use of Social Media Services - A Study on Twitter</td>
<td>Dicle Köse, Alexander Semenov, Tuure Tuunanen</td>
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**Best Paper Nomination**
** Best Paper Nomination

**Can Humanoid Service Robots Perform Better Than Service Employees? A Comparison of Innovative Behavior Cues** | Ruth Maria Stock, Moritz Merkle

**Engaging Users to Co-Create - Implications for Service Systems Design by Evaluating an Engagement Platform** | Christian Grotheer, Martin Semmann, Tilo Boehmann

**Towards a Taxonomy for Data-Driven Digital Services** | Aya Rizk, Birgitta Bergvall-Kåreborn, Ahmed Elragal

**Gamification of the Work Floor: A Literature Review of Gamifying Production and Logistics Operations** | Harald Warmelink, Jonna Koivisto, Igor Mayer, Mikko Vesa, Juho Hamari

**A Theory of Gamification Principles Through Goal-Setting Theory** | Gustavo Tondello, Hardy Premsukh, Lennart Nacke

**Tailoring a Points Scoring Mechanism for Crowd-Based Knowledge Pooling** | Ganit Richter, Daphne Raban, Sheizaf Rafaeli

**What Drives Decision Makers to Follow or Ignore Forecasting Tools - A Game Based Analysis** | Georg Vetter, Markus Siepermann, Richard Lackes

**Gamification**

Minitrack Chairs: Juho Hamari, Petri Parvinen

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**DA 11** KONA 4 SATURDAY, 10:00 - 11:30

**RFID-Enabled Management of Highly-Perishable Inventory: A Markov Decision Process Approach for Grocery Retailers** | Chokdee Siawsolit, Gary Gaukler, Sarun Seepun

**A Decision Support System for Efficient Last-Mile Distribution of Fresh Fruits and Vegetables as Part of E-Grocery Operations** | Martin Waitz, Andreas Mild, Christian Fikar

**An Intelligent Decision Support System for the Empty Unit Load Device Repositioning Problem in Air Cargo Industry** | Daniel Döppner, Patrick Derckx, Detlef Schoder
** Best Paper Nomination

Deep Multi-Agent Reinforcement Learning Using DNN-Weight Evolution to Optimize Supply Chain Performance | Taiki Fuji, Kiyoto Ito, Kohsei Matsumoto, Kazuo Yano

On the Need for Random Baseline Comparisons in Metaheuristic Search | Daniel Soper

**Interactive Visual Analytics and Visualization for Decision Making-Making Sense of Big Data**
Minitrack Chairs: David Ebert, Brian Fisher, Kelly Gaither

**DA 19** KONA 2  SATURDAY, 8:00 - 9:30

**Immersive Visualization for Abnormal Detection in Heterogeneous Data for On-site Decision Making** | Elias Mahfoud, Kodzo Wegba, Yuemeng Li, Honglei Han, Aidong Lu

**Representation Effects and Loss Aversion in Analytical Behaviour: An Experimental Study into Decision Making Facilitated by Visual Analytics** | Paul Booth, Nicholas Gibbins, Spryos Galanis

**Visual Decision-Making in Real-Time Business Intelligence: A Social Media Marketing Example** | Elena Darcheva, Alexander Benlian

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

**DA 20** KONA 3  THURSDAY, 2:00 - 3:30

The Internet of Things, Teamwork, and Service Projects | Ziye (Randy) Wang, Deanna Kennedy

Pricing of Games as a Service: An Analytical Model for Interactive Digital Services with Hedonistic Properties | Tayfun Keskin

Pricing of Virtual Goods and Designing Game Challenge Level for Free-to-Play Mobile Games in the Presence of Copycat Competitors | Ismail Civelek, Yipeng Liu, Sean Marston

**DA 21** WAIKOLOA 2  FRIDAY, 4:00 - 5:30

RiskRank to Predict Systemic Banking Crises with Common Exposures | Peter Sarlin, Paolo Giudici, Alessandro Spelta, Kaj-Mikael Björk

Credit Risk Evaluation in Peer-to-peer Lending with Linguistic Data Transformation and Supervised Learning | Jozsef Mezei, Ajay Byanjankar, Markku Heikkilä

**Event Entry Time Prediction in Financial Business Processes Using Machine Learning - A Use Case from Loan Applications** | Michael Frey, Andreas Emrich, Peter Fettke, Peter Loos

**Mixed, Augmented and Virtual Reality**
Minitrack Chairs: Petri Parvinen, Juho Hamari, Essi Pöyry

**DA 22** KONA 4  SATURDAY, 3:00 - 4:30

The Role of Immersive Virtual Reality in Learning | Henrik Kampling

The Three Pillars of Virtual Reality? Investigating the Roles of Immersion, Presence, and Interactivity | Joschka Mütterlein

Usability and Reliability of Smart Glasses for Secondary Triage During Mass Casualty Incidents | John Broach, Alexander Hart, Matthew Griswold, Jeffrey Lai, Edward Boyer, Aaron Skolnik, Peter Chai

**Augmented Reality in Informal Learning Environments: Investigating Short-term and Long-term Effects** | Peter Sommerauer, Oliver Mueller

Interactive Visual Analytics and Visualization for Decision Making-Making Sense of Big Data
Minitrack Chairs: David Ebert, Brian Fisher, Kelly Gaither

What Drives Continued Intention for Mobile Payment? - An Expectation Cost Benefit Theory with Habit | Kuan-Yu Lin, Yi-Ting Wang, Travis Huang

Why do Individuals Continue Using Mobile Payments - A Qualitative Study in China | Xiaogang Chen, Darrell Carpenter, Xue Li, Charlie Chen, Shin-Yuan Hung

Multi-Criteria Decision Analysis and Support Systems
Minitrack Chairs: Amita Goyal Chin, Rakesh Sarin, H. Roland Weistroffer

Decision Making in Crowdfunding under Risk Analysis | Jun Chen, Long Chen, Chen Qian, Kefan Xie

An Integrated Framework for The Value Focused Thinking Methodology | Kweku-Muata Osei-Bryson

Online Decision Making and Information Systems Design
Minitrack Chairs: Markus Weinmann, Christoph Schneider, Jan vom Brocke

Digital Nudging for Online Social Sharing: Evidence from A Randomized Field Experiment | Ni Huang, Peiyu Chen, Yili Hong, Shinyi Wu

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

Love and Hate Relationships in a Platform Ecosystem: A Case of Finnish Electronic Identity Management | Anar Bazarhanova, Jesse Yli-Huumo, Kari Smolander

The Impact of Service Failure Controllability and Relationship Strength on Post-Complaint Consumer Behavior - An Empirical Analysis | Frederike von Aswege, Jan Kemper, Malte Brettel

Influencing Operational Policing Strategy by Predictive Service Analytics | Lisa Jackson, Melanie-Jane Stoneman, Heather Callaghan, Hanjing Zhang, Christina Latsou, Sarah Dunnett, Lei Mao

A Similarity-Based Approach for the All-Time Demand Prediction of New Automotive Spare Parts | Daniel Steuer, Verena Hutterer, Peter Korevaar, Hansjoerg Fromm

The Anchor and Adjustment Bandwidth model: Exploring Cognitive Biases in Simulated Forecast Series | Florian Knöll, David Roßbach

How to Improve Cloud Services Availability? Investigating the Impact of Power and IT Subsystems Failures | Daniel Rosendo, Guto Leoni, Demis Gomes, André Moreira, Glauco Gonçalves, Patricia Endo, Judith Kelner, Djamel Sadok, Mozhgan Mahloo

Towards a Technician Marketplace using Capacity-Based Pricing | Clemens Wolff, Michael Vössing, Björn Schmitz, Hansjörg Fromm

Stable Matrix Approximation for Top-N Recommendation on Implicit Feedback Data | Dongsheng Li, Changyu Miao, Stephen Chu, Jason Mallen, Tomomi Yoshioka, Pankaj Srivastava

The Role of Semantic Technologies in Diagnostic and Decision Support for Service Systems | Eleni Tsalapati, Thomas Jackson, William Johnson, Lisa Jackson, Andrey Vasilyev, Andrew West, Lei Mao, Ben Davies

On Predictability of Revisioning in Corporate Cash Flow Forecasting | Florian Knöll, Thomas Setzer, Kevin Laubis

** Best Paper Nomination
**Best Paper Nomination**

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

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<tr>
<th>DA 30 KONA 4</th>
<th>FRIDAY, 4:00 - 5:30</th>
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<tbody>
<tr>
<td>Firm Strategies in Open Internet of Things Business Ecosystems: Framework and Case Study</td>
<td>Anssi Smedlund, Heini Ikävalko, Petra Turkama</td>
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<tr>
<td>Service Ecosystem Emergence from Primitive Actors in Service Dominant Logic: An Exploratory Simulation Study</td>
<td>Satoru Fujita, Claudia Vaughan, Stephen Vargo</td>
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**Smart Service Systems: Analytics, Cognition, and Innovation**
Minitrack Chairs: Haluk Demirkan, James Spohrer, Ralph Badinelli

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<th>DA 31 KONA 3</th>
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<tr>
<td>Service-Oriented Cognitive Analytics for Smart Service Systems: A Research Agenda</td>
<td>Robin Hirt, Niklas Kühl, Björn Schmitz, Gerhard Satzger</td>
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<td><strong>Service Dominant Architecture: Conceptualizing the Foundation for Execution of Digital Strategies based on S-D Logic</strong></td>
<td>Peter Weiß, Andreas Zolnowski, Markus Warg, Thomas Schuster</td>
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<td>People's Interactions with Cognitive Assistants for Enhanced Performances</td>
<td>Md. Abul Kalam Siddike, Jim Spohrer, Haluk Demirkan, Youji Kohda</td>
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**Soft Computing: Methods and Applications**
Minitrack Chairs: Gabriella Pasi, Rudolf Kruse, Marco Viviani

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<tr>
<th>DA 32 KONA 3</th>
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<tr>
<td>A Network-Based Deterministic Model for Causal Complexity</td>
<td>Simon Poon, Su Henry, Niku Gorji</td>
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<td>Stochastic Speculative Computation Method and its Application to Monte Carlo Molecular Simulation</td>
<td>Yasuki Iizuka, Akira Hamada, Yosuke Suzuki</td>
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**DSM: Digital and Social Media**
Co-Chairs: Kevin Crowston and Karine Nahon

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<tr>
<td>This session hosts a series of a high-energy short talks that promotes the sharing of creative ideas about digital and social media research.</td>
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**Collective Intelligence and Crowds**
Minitrack Chairs: Jeffrey Nickerson, Pnina Fichman, Donald Steiny

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<tr>
<td>Computer-Mediated Deception: Collective Language-action Cues as Stigmergic Signals for Computational Intelligence</td>
<td>Shuyuan Mary Ho, Jeffrey Hancock</td>
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<td>Coordinating Advanced Crowd Work: Extending Citizen Science</td>
<td>Kevin Crowston, Erica Mitchell, Carsten Østerlund</td>
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<td>A Multi-Scale Correlative Approach for Crowd-Sourced Multi-Variate Spatiotemporal Data</td>
<td>Thomas Gorko, Calvin Yau, Abish Malik, Matt Harris, Jun Xiang Tee, Ross Maciejewski, Cheryl Qian, Shehzad Afzal, Bryan Pijanowski, David Ebert</td>
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<tr>
<td>It's All News to Me: The Remix</td>
<td>Miriam Boon</td>
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<td><strong>Democratic Replay: Enhancing TV Election Debates with Interactive Visualisations</strong></td>
<td>Brian Plüss, Anna De Liddo</td>
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<td>The 2016 US Presidential Election on Facebook: An Exploratory Analysis of Sentiments</td>
<td>Saud Alashri, Srinivasa Sivatsav Kandala, Vikash Bajaj, Emily Parriott, Yukika Awazu, Kevin Desouza</td>
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**Critical and Ethical Studies of Digital and Social Media**
Minitrack Chairs: Amelia Acker, Brian Beaton, Laha Swartz

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<tr>
<td>The Ethics of Psychometrics in Social Media: A Rawlsian Approach</td>
<td>Morten Bay</td>
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<tr>
<td><strong>Cracking Open the Black Box of Genetic Ancestry Testing</strong></td>
<td>Joan Donovan, Irene Pasquetto, Jennifer Pierre</td>
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**Ignite Talks**
Minitrack Chairs: Kevin Crowston, Karine Nahon

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Analysis of Elections Using Social Listening in Japan | Hisaki Goto, Yukiko Goto

"Leadership in Action: How Top Hackers Behave" A Big-Data Approach with Text-Mining and Sentiment Analysis | Baidyanath Biswas, Arunabha Mukhopadhyay, Gaurav Gupta

**Automated Generation of Latent Topics on Emerging Technologies from YouTube Video Content | Clinton Daniel, Kaushik Dutta

Fine Grained Approach for Domain Specific Seed URL Extraction | Lalit Mohan Sanagavarapu, Sourav Sarangi, Raghu Reddy Y, Vasudeva Varma

Yaks versus Tweets: Sentiment Discrepancy During a Social Crisis | Mehrdad Koohikamali, Natalie Gerhart

Emotions Trump Facts: The Role of Emotions in on Social Media: A Literature Review | Hissu Hyvärinen, Roman Beck

Decision Making in Online Social Networks | Minitrack Chairs: Valeria Sadovykh, Gabrielle Peko, David Sundaram

**Unique Challenges of Decision-Making Process on Crowdfunding Platforms: An Exploratory Study | Yu Lei, Ali Yayla, Surinder Kahai

Is Negative Feedback Better than No Feedback? The Impact of Social Dynamics on Reviewers' Review Decisions | Wenqi Shen, Yan Liu

The Message Influences Me More Than Others: Social Media Metrics, Third-Person Perception, and Behavioral Intentions | Myojung Chung

A Differentially Private Matching Scheme for Pairing Similar Users of Proximity Based Social Networking Applications | Michael Sommer, Lipyeow Lim, Depeng Li

Social Network Sites in Businesses: Combating Technostress | Murad Moqbel, Valerie Bartelt

**Digitalization and Leadership - How Experienced Leaders Interpret Daily Realities in a Digital World | Andreas Hesse

Organizational Social Media: A Literature Review and Research Agenda | Karin Högberg

Videogame Walkthroughs in Educational Settings: Challenges, Successes, and Suggestions for Future Use | Kelly Bergstrom, Jennifer Jenson, Emily Flynn-Jones, Cristyne Hebert

Finding Sociality In Single Player Games: A Case Study of Tandem play amongst Friends and Couples | Mia Consalvo, Jason Begy, Pierson Browne, Sarah Ganzon, Rainforest Scully-Blaker, Rebecca Waldie

The Relationship between Player's Gaming Orientation and Avatar's Capital: A Study in Final Fantasy XIV | Henry Korkeila, Juho Hamari

Impact of Playing Pokémon Go on Wellness | Shahrokh Nikou, Julian Tarvoll, Anssi Öörni

The Effects of Game Players' Social Intelligence on Social Support and Psychosocial Problem Factors in a 2-Wave Longitudinal Study | Hye Rim Lee, Eui Jun Jeong, Sung Je Lee

Learning within Digital and Social Media | Minitrack Chairs: Maarten de Laat, Dan Suthers

Youth Data Literacy: Teen Perspectives on Data Created with Social Media and Mobile Devices | Amelia Acker, Leanne Bowler

**Learning in the Wild: Coding Reddit for Learning and Practice | Priya Kumar, Anatoliy Gruzd, Caroline Haythornthwaite, Sarah Gilbert, Marc Esteve del Valle, Drew Paulin

Peer and Vicarious Framing, Problematization, and Situated Learning in Online Professional Masters Courses | Susan Gasson, Jonan Donaldson

** Best Paper Nomination
**Best Paper Nomination**

Is Politeness Catalytic and Contagious? Effects on Participation in Online News Discussions | Yeweon Kim, Susan Herring

The Role of Chronemic Agency in the Processing of a Multitude of Mediated Conversation Threads | Yoram Kalman, Ana Aguilar, Dawna Ballard

**Press Freedom Homophily in the Tie Structure of the Global Internet** | Hyunjin Seo, Stuart Thorson

Sampling Social Media: Supporting Information Retrieval from Microblog Data Resellers with Text, Network, and Spatial Analysis | Cody Buntain, Erin McGrath, Brandon Behlendorf

Emerging Leaderships in an Online Community: A Longitudinal Network Analysis | Joyce Lee, Chin-Sheng Yang, Carol Hsu, Jhong-Heng Wang

Analysis of the Twitter Interactions during the Impeachment of Brazilian President | Fabrício Olivetti de França, Denise Goya, Claudio Camargo Penteado

**Network Analysis of Digital and Social Media**

Minitrack Chairs: Devan Rosen, George Barnett, Kar-Hai Chu

**Social Media and Communities**

Minitrack Chairs: Dan Suthers, Karine Nahon

**They are Like Personalized Mini-Google**: Seeking Information on Facebook Groups | Preeti Mudliar, Noopur Raval

Knowledge Production and Social Roles in an Online Community of Emerging Occupation: A Study of User Experience Practitioners on Reddit | Yubo Kou, Colin Gray, Austin Toombs, Robin Adams

Photographic Disclosure in Facebook and Relational Closeness with Others | David Houghton, Adam Joinson, Nigel Caldwell, Ben Marder, Emily Collins

Polarization on Social Media: when Group Dynamics Leads to Societal Divides | Agnieszka Rychwalska, Magdalena Roszczyńska-Kurasińska

The Buffer Effect of Receiving Social Support on SNS Exhaustion and SNS Satisfaction: An Exploratory Study of the Lonely and Emotionally Unstable | Janice Lo, Chengqi Guo, Bree Bradley

Will You "Tip" Celebrated Streamers? Sense of Virtual Community and the Moderating Role of Subjective Happiness | Pei-Shan Hsieh, Junmin Ou, Jialin Xu

Drivers of Online Brand Community Value Creation: The Role of Psychological Empowerment | Sara Hsieh, Timmy Tseng, Crystal Lee

How Does Social Media Interactivity Affect Brand Loyalty? | Travis Huang, Chun-Yung Liao, Yi-Ting Wang, Kuan-Yu Lin

**Exploring Affordances of Slack Integrations and Their Actualization Within Enterprises - Towards an Understanding of How Chatbots Create Value** | Emanuel Stoeckli, Falk Uebernickel, Walter Brenner

Social Environment of Virtual Collaboration Using Mobile Social Media | Zhaojun Yang, Jun Sun, Yali Zhang, Ying Wang

Archetypes of Enterprise Social Network Users | Christian Oettl, Thomas Berger, Markus Böhm, Manuel Wiesche, Helmut Krcmar

Automatically Quantifying Customer Need Tweets: Towards a Supervised Machine Learning Approach | Niklas Kühl, Marius Mühlthaler, Marc Goutier

**Mediated Conversation**

Minitrack Chairs: Sheizaf Rafaeli, Yoram Kalman, Carmel Kent

**DSM 11** QUEEN'S 4 SATURDAY, 10:00 - 11:30

**DSM 12** KONA 2 SATURDAY, 10:00 - 11:30

**DSM 13** QUEEN'S 4 THURSDAY, 4:00 - 5:30

**DSM 14** QUEEN'S 4 SATURDAY, 1:00 - 2:30

**DSM 15** QUEEN'S 4 SATURDAY, 3:00 - 4:30

**DSM 11 QUEEN'S 4 SATURDAY, 10:00 - 11:30**

**DSM 12 KONA 2 SATURDAY, 10:00 - 11:30**

**DSM 13 QUEEN'S 4 THURSDAY, 4:00 - 5:30**

**DSM 14 QUEEN'S 4 SATURDAY, 1:00 - 2:30**

**DSM 15 QUEEN'S 4 SATURDAY, 3:00 - 4:30**

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The New Agora: Social Media as a Vector for Sign Language as a Language of Culture, Identity and Inclusion of the Deaf | Cayley Guimarães, Sueli Fernandes

A Socio-contextual Approach in Automated Detection of Cyberbullying | Nargess Tahmasbi, Elham Rastegari

Mobile Phones Use by Urban Refugees in South Africa: Opportunities and Challenges | Kasky Bisimwa, Irwin Brown, Kevin Johnston

Anatomy of Viral Social Media Events | Essi Pöyry, Salla-Maaria Laaksonen, Arto Kekkonen, Juho Pääkkönen

How Diverse Users and Activities Trigger Connective Action via Social Media: Lessons from the Twitter Hashtag Campaign #ILookLikeAnEngineer | Aditya Johri, Habib Karbasian, Aqdas Malik, Rajat Handa, Hemant Purohit

Emergent Collaboration on Twitter: A Case Study of the #BlackLivesMatter Movement | Daniel Lundgaard, Liana Razmerita, Chee-Wee Tan

**The Influence of Social Media on Collective Action in the Context of Digital Activism: An Affordance Approach | Manju Ahuja, Pankaj Patel, Ayoung Suh

** Best Paper Nomination
**Best Paper Nomination**

**Enhancing Public Participation, Interaction, and Innovation in Government**
Minitrack Chairs: John Carlo Bertot, Mitch Cochran, Scott Robertson

**EG 4 KOHALA 1 SATURDAY, 8:00 - 9:30**

The Cross-National Adoption of Policy Innovation: Peer-to-Patent | Helen Liu
Digital Activism: A Hierarchy of Political Commitment | Jordana George, Dorothy Leidner
Can Digital Technologies Create a Stronger Model for Democratic Participation? The Case of #Crowdlaw | Helene Langlamet

**Government and Disaster Resilience**
Minitrack Chairs: Mihoko Sakurai, Jose Julio Gonzalez, Frederick Benaben

**EG 5 KOHALA 1 FRIDAY, 8:00 - 9:30**

A Conceptual System Dynamics Maturity Model of City Resilience | Jaziar Radianti, Ahmed Abdeltwab A.S Aboughonim, Jose Julio Gonzalez
Technology-Mediated Learning for Resilience | Tim A. Majchrzak, Peter André Busch, Kjetil Sandvik

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

**EG 6 KOHALA 1 FRIDAY, 4:00 - 5:30**

**Determinants and Barriers of e-Procurement: A European Comparison of Public Sector Experiences** | Mila Gasco-Hernandez, Maria Cucciniello, Greta Nasi, Qianli Yuan
Are Older Citizens Using the E-Moi portal in Saudi Arabia, Hail City: A Quantitative Study | Jyoti Choudrie, Adel Alfalah, Neil Spencer, David Sundaram

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

**EG 7 KOHALA 1 SATURDAY, 8:00 - 9:30**

**Responding to Enterprise Architecture Initiatives: Loyalty, Voice and Exit** | Lena Hylving, Bendik Bygstad

**EG 8 KOHALA 1 THURSDAY, 10:00 - 11:30**

Identifying Challenges in Business Rules Management Implementations Regarding the Governance Capability at Governmental Institutions | Koen Smit, Martijn Zoet
Open Co-creation Coming of Age: The Case of an Open Services Experiment | Lieselot Danneels, Stijn Viaene

**Information and Communication Technology for Development (ICT4D): ICT and Sustainable Development**
Minitrack Chairs: Mathias Hatakka, Devinder Thapa, Jing Zhang

**EG 9 KOHALA 1 SATURDAY, 10:00 - 11:30**

The Role of Open Source Communities in Development: Policy Implications for Governments | Georg Link, Sajda Qureshi
Inverting the Relationship between Development and Public Access Computing (PAC): A Comparative Study of PAC Ecosystems | Caroline Stratton
In Search for Holistic ICT4D Research: A Systematic Literature Review | Luthfi Ramadani, Sherah Kurnia, Christoph Breidbach

**Insider Threats to Governments and Organizations**
Minitrack Chairs: Matt Bishop, Jay Kesan, Jason Clark

**EG 10 KOHALA 1 SATURDAY, 1:00 - 2:30**

Contrasting the CSEC 2017 and the CAE Designation Requirements | Wm. Arthur Conklin, Matt Bishop

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

**EG 11 KOHALA 1 THURSDAY, 2:00 - 3:30**

The Making of a 'Top' Open Data City: A Case Study of Edmonton's Open Data Initiative | Jacqueline Corbett, Mathieu Templier, Hirotoshi Takeda
Co-creating an Open Government Data Driven Public Service: The Case of Chicago's Food Inspection Forecasting Model | Keegan McBride, Gerli Aavik, Tarmo Kalvet, Robert Krimmer

**Best Paper Nomination**
** Policies and Strategies for Digital Governance  
Minitrack Chairs: Peter Parycek, Antonio Cordella, Frank Bannister

** EG 12 KOHALA 1  THURSDAY, 8:00 - 9:30  
Public Procurement of Innovation Through Increased Startup Participation: The Case of Digipolis (Research-in-progress) | Ben De Coninck, Stijn Viaene, Jan Leysen

** EG 13 KOHALA 1  FRIDAY, 2:00 - 3:30  
**A Tale of Two "Smart Cities": Investigating the Echoes of New Public Management and Governance Discourses in Smart City Projects in Brazil | Erica Przybylowicz, Maria Alexandra Cunha, Javiera Fernanda Medina Macaya, Joao Porto de Albuquerque
Understanding the Adoption of Smart Community Services: Perceived Usefulness, Enjoyment, and Affective Community Commitment | Ruizhi Li, Qian Huang, Xiayu Chen, Bowen Zheng, Hefu Liu
Online Activities to Mobilize Smart Cities | Mihoko Sakurai, Øystein Sæbo
A Requirements Framework for the Design of Smart City Reference Architectures | Viviana Bastidas, Markus Helfert, Marija Bezbradica

Social Media and Government  
Minitrack Chairs: Roney Medaglia, Margit Scholl, Euripidis Loukis

** EG 14 KOHALA 1  FRIDAY, 10:00 - 11:30  
**The Diffusion of Crisis-Related Communication on Social Media: An Empirical Analysis of Facebook Reactions | Björn Ross, Tobias Potthoff, Tim Majchrzak, Narayan Ranjan Chakraborty, Mehdi Ben Lazreg, Stefan Stieglitz
Using Social Media for Government Passive Expert-Sourcing | Euripidis Loukis, Yannis Charalabidis, Aggeliki Androutsopoulou

** Best Paper Nomination
**An Adaptive Optimization-Based Load Shedding Scheme in Microgrids** | Amin Gholami, Tohid Shekari, Andy Sun

Coordination of DERs in Microgrids with Cybersecure Resilient Decentralized Secondary Frequency Control | Hao Jan Liu, Matthew Backes, Richard Macwan, Alfonso Valdes

Real-time Voltage Regulation in Distribution Systems via Decentralized PV Inverter Control | Weixuan Lin, Robert Thomas, Eilyan Bitar

**Resilient Networks (Data Analytics and Decision Support)**
Minitrack Chair: Jeff Dagle
Session Chair: Le Xie

**Resilient Networks (Testbeds and Synthetic Networks)**
Minitrack Chair: Jeff Dagle
Session Chair: Mladen Kezunovic and Ian Dobson

**A Submodular Approach for Electricity Distribution Network Reconfiguration** | Ali Khodabakhsh, Ger Yang, Soumya Basu, Evdokia Nikolova, Michael Caramanis, Thanasis Lianelas, Emmanouil Pountourakis

Exploring Cascading Outages and Weather via Processing Historic Data | Ian Dobson, Nichelle'Le Carrington, Kai Zhou, Zhaoyu Wang, Benjamin Carreras, Jose Reynolds-Barredo

Systematic Framework for Integration of Weather Data into Prediction Models for the Electric Grid Outage and Asset Management Applications | Mladen Kezunovic, Zoran Obradovic, Tatjana Djokic, Shoumik Roychoudhury

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

**Best Paper Nomination**
| **HC: Information Technology in Healthcare**  
Co-Chairs: William Chismar and Thomas Horan |
| --- |
| **Big-Data on Healthcare Application**  
Minitrack Chairs: Kelvin Tsoi, Simon Poon, Patrick Hung |
| **HC 1**  
**KONA 2**  
FRIDAY, 8:00 - 9:30 |
| Big Data and Parkinson's Disease: Exploration, Analyses, and Data Challenges | Mahalakshmi Senthilarumugam Veilukandammal, Sree Nilakanta, Baskar Ganapathy Subramanian, Vellareddy Anantharam, Anumantha Kanthasamy, Auriel Willette |
| Drawing-Based Automatic Dementia Screening Using Gaussian Process Markov Chains | Max Lam, Xunying Liu, Helen Meng, Kelvin Tsoi |
| Logic Synthesis as an Efficient Means of Minimal Model Discovery from Multivariable Medical Datasets | Niku Gorji, Simon Poon |
| **HC 2**  
**KONA 2**  
FRIDAY, 10:00 - 11:30 |
| Association of the DYX1C1 Gene with Chinese Literacy in a Healthy Chinese Population | Mary Miu Yee Waye, Cynthia Siu, Catherine McBride, Connie Suk-han Ho, Cheuk Wa Wong |
| Exploring the Potential of Big Data on the Health Care Delivery Value Chain (CDVC): A Preliminary Literature and Research Agenda | William Tibben, Samuel Fosso Wamba |
| **Health Information Technology for Development:**  
Use of ICTs for Health Equity  
Minitrack Chairs: Matthias Hatakka, Nilmini Wickramasinghe, Sajda Qureshi |
| **HC 4**  
**KING'S 1**  
THURSDAY, 4:00 - 5:30 |
| Designing for Behavior Change - 6 Dimensions of Social Comparison Features | Vasiliki Mylonopoulou, Karin Väyrynen, Minna Isomursu |
| Understanding the Context for Health Behavior Change with Cognitive Work Analysis and Persuasive Design | Catherine Burns, Leila Sadat Rezai, Justin St. Maurice |
| **Using Personality Traits and Chronotype to Support Personalization and Feedback in a Sleep Health Behavior Change Support System** | Holly Nguyen, Carolina Ruiz, Vance Wilson, Diane Strong, Soussan Djamshibi |
| **Global Health IT Strategies**  
Minitrack Chairs: Joseph Tan, Christopher Califf, Michael Dohan |
| **HC 3**  
**KING'S 1**  
THURSDAY, 8:00 - 9:30 |
| **Image Recognition of Disease-Carrying Insects: A System for Combating Infectious Diseases Using Image Classification Techniques and Citizen Science** | J. Pablo Munoz, Rebecca Boger, Scott Dexter, Russanne Low, Justin Li |
| Critical Issues in Implementing and Adopting National e-Health Solutions: Lessons from Australia's MyHealth Record | Imran Muhammad, Nilmini Wickramasinghe |
| Ambulatory EMR Adoption in the USA: A Longitudinal Study | Jun Sun, Jorge Garcia, Ying Wang |
| **Health Technologies that Interface Patients and Providers**  
Minitrack Chairs: Kai Zheng, Yunan Cheng |
| **HC 5**  
**KOHALA 3**  
THURSDAY, 2:00 - 3:30 |
| Development of a Mobile Tele-Simulation Unit Prototype for Training of Rural and Remote Emergency Health Care Providers | Jennifer Jewer, Adam Dubrowski, Kristopher Hoover, Andrew Smith, Michael Parsons |
| **Health Information Technology for Development:**  
Use of ICTs for Health Equity  
Minitrack Chairs: Matthias Hatakka, Nilmini Wickramasinghe, Sajda Qureshi |
| **HC 6**  
**KING'S 1**  
SATURDAY, 1:00 - 2:30 |
| **Can a Hospital's Analytics Capabilities Impact Patient Satisfaction? A Multi-Year Panel Study** | Idris Adjerid, Corey Angst, Sarv Devaraj |
| The Impact of Computing Device Design on Patient-Centered Communication: An Experimental Study | Rebecca Randell, Charlotte Tang, Yunan Chen |
| **Effect of Handoff Training on Resident Communication Quality: An Observational Study** | Joanna Abraham, Thomas Kannampallil, Charlotte Ward, Christopher Bogan, Abbas Hyderi |
| Investigating Ethical Design Requirements for Digitalized Healthcare Support: The Case of Ambulatory Physiotherapeutic Assistance Systems | Marius Mueller, Oliver Heger, Bjoern Niehaves |

**Best Paper Nomination**
WANTED! - Virtual Coach for People with Thorny Diseases | Raija Halonen, Stefan Sävenstedt, Gunnar Hartvigsen, Roger Abächerli, Erika Jääskeläinen, Kåre Synnes

Certainty Modeling of a Decision Support System for Mobile Monitoring of Exercise-induced Respiratory Conditions | Chinazunwa Uwaoma, Gunjan Mansingh

**SHARPP Games for the Education Prevention and Reversion of Chronic Diseases | Claris Yee Seung Chung, David Sundaram

The Effectiveness of Social Media-Enabled Patient Communities on Health Goal Attainment: An Approach of Survival Analysis | Jiahe Song, Pei Xu

**IT Adoption, Diffusion and Evaluation in Healthcare Minitrack Chairs: Ton Spil, Leigh Cellucci, Arnold Kamis, Karoly Bozan

**Minding the Boundary: Electronic Health Records and the Transformation of U.S. Healthcare Practice | Sean Hansen, A. James Baroody

The Role of Anchoring in Actualizing IT Affordances in EMR Implementations | Venkata Mallampalli, Hani Safadi, Samer Faraj

Unpacking the Complexity of Consistency: Insights from a Grounded Theory Study of the Effective Use of Electronic Medical Records | Rebekah Eden, Saeed Akhlaghpour, Paul Spee, Andrew Staib, Clair Sullivan, Andrew Burton-Jones

The Key Determinant Factors of Clinical Information Systems User Satisfaction: Lessons Learnt from an Australian Case Study | Peter Haddad, Nilmimi Wickramasinghe

Actualization of Electronic Health Records Affordances: An Empirical Investigation of Users' Personal and Behavioral Antecedents | Hamed Qahri-Saremi, Georgia Mueller-Luckey, Robert Robinson, Rassule Hadidi, Stacy Sattovia

The Effect of Unmet Expectations of Information Quality on Post-Acceptance Workarounds among Healthcare Providers | Karoly Bozan, Andrew Berger

Youth Quarter: Success and Failure Factors of a Digital Platform for Youth Care Professionals | Margreet B. Michel-Verkerke, Somaya Ben Allouch

Clinician's Perceptions and Expectations on a mHealth Platform for Supporting Patient Data Integration and Clinical Service Delivery: A Case Study in Evidence-Based Communication Rehabilitation | Erhhsuan Wang, Leming Zhou, Bambang Parmanto, Valerie Watzlaf, Mervat Abdelhak

The Emergence of Digitalisation in the Context of Healthcare | Marius Mihailescu, Daniela Mihailescu

Medical Technology Investment Decision-Making at U.S. Hospitals: A Comparative Case Study of Four Organizations | Christian Wernz, Hui Zhang

Drones: Application and Business Models in Swiss Hospitals | Mike Krey

Facing Business-IT-Alignment in Healthcare | Mike Krey
**Best Paper Nomination**

**IT Architectures and Implementations in Healthcare Environments**
Minitrack Chairs: Radmila Juric, Karen Stendal, Sang Suh

**HC 12**
KING’S 1
THURSDAY, 10:00 - 11:30

**Process Innovation with Lightweight IT at an Emergency Unit** | Egil Øvrelid, Marit Halvorsen

**A Workaround of EHR - A logistics/Reporting System Development** | Sonya Hsu, Steven Dick

**Software Architectures for Smart Applications in the Management of Chronic Diseases: A Study of Reversibility of Diabetes 2** | Mehdi Tarabi, Radmila Juric

**Improving Perioperative Data Integrity and Quality via Electronic Medical Record Reconciliation** | Jim Ryan, Barbara Doster, Sandra Daily, Carmen Lewis

**Exploring Multi-Modal Communication Approach for Young Children with Spinal Muscular Atrophy (SMA)** | Sheng Miao, Ziyang Tang, Jinjuan Feng, Amanda Jozkowski

**Assessing the Impact of Physicians' Virtual Communities on their Medical Decision Making Quality** | Anjum Razzque, Tillal Eldabi

**IT-Enabled Healthcare Coordination**
Minitrack Chairs: Susan Sherer, Stefan Morana, Melanie Reuter-Oppermann

**HC 13**
KING’S 1
THURSDAY, 2:00 - 3:30

**Creating Coordinative Paths from Admission to Discharge: The Role of Lightweight IT in Hospital Digital Process Innovation** | Egil Øvrelid, Terje Sanner, Anette Siebenherz

**Horizontal Affordances for Patient Centred Care in Hospitals** | Bendik Bygstad, Magnus Bergquist

**An Exploratory Study on how to Improve Bedside Change-of -Shift Process: Evidence from One Hospital Using Technology to Support Verbal Reporting** | Kaushik Ghosh, Eileen Curl, Mary Goodwin, Patricia Morrell, Paul Guidroz

**Personal Health Management and Technologies**
Minitrack Chairs: Freimut Bodendorf, Nilmini Wickramasinghe, Tuan Huy Ma

**HC 15**
KING’S 1
SATURDAY, 8:00 - 9:30

**How Does Self-Tracking Go? A Research Model and Pre-Test** | Ruth Baumgart, Roland Holten

**Why Patients Switch Help from Online to Offline: An Empirical Investigation of Emotions and Effects of Cognitions** | Meng Yin, Xin Luo, Xiaoyu Xu, Qi Li

**Promoting Use of Patient-Centered Health IT: Assessment and Ranking of Incentive Mechanisms** | Anton Grube, Tobias Dehling, Kristina Klein, Ali Sunyaev

**HC 16**
KING’S 1
SATURDAY, 10:00 - 11:30

**Selfies of Twitter Data Stream through the Lens of Information Theory: A Comparative Case Study of Tweet-trails with Healthcare Hashtags** | Yuan Zhang, Hsia-Ching Chang

**Design of a Mobile-App for Non-Invasively Detecting High Blood Cholesterol Using Eye Images** | Yaser Alhasawi, Balakrishnan Mullachery, Samir Chatterjee

**A Lazy User Perspective to the Voluntary Adoption of Electronic Personal Health Records (PHRs)** | K Niki Kunene, MameFatou Diop

**Real-World Evaluation of Biosensor-Based Interventions in Healthcare**
Minitrack Chairs: Edward Boyer, Peter Chai, Stephanie Carreiro

**HC 17**
KOHALA 3
SATURDAY, 8:00 - 9:30

**Wearable Biosensors to Evaluate Recurrent Opioid Toxicity After Naloxone Administration: A Hilbert Transform Approach** | Keerthi Kumar Chinthan, Premananda Indic, Brittany Chapman, Edward Boyer, Stephanie Carreiro

**Low-energy Bluetooth for Detecting Real-world Penetration of Bystander Naloxone Kits: A Pilot Study** | Jeffrey Lai, Brittany Chapman, Katherine Boyle, Edward Boyer, Peter Chai
**Best Paper Nomination**

**Understanding Users’ Health Information Privacy Concerns for Health Wearables** | Moritz Becker

**MedDevRisk: Risk Analysis Methodology for Networked Medical Devices** | Katherine Seale, Jeffrey McDonald, William Glisson, Harold Pardue, Michael Jacobs

**Quality and Customer Satisfaction Health Accessibility Framework using Social Media Platform** | Abdulaziz Albarrak, Yan Li

**Physician Ratings Published on Healthcare Organizations’ Websites: Are They Biased?** | Nima Kordzadeh

**Social Media as a Tool to Look for People with Dementia Who Become Lost: Factors That Matter** | Kelvin KF Tsoi, Lingling Zhang, Nicholas Chan, Felix Chan, Hoyee Hirai, Helen Meng

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

**The Use of Emoji in Electronic User Experience Questionnaire: An Exploratory Case Study** | Sarah Alismail, Hengwei Zhang

**10,000 Steps a Day for Health? User-based Evaluation of Wearable Activity Trackers** | Aylin Ilhan, Maria Henkel

**What Type of Engagement Predicts Success in a Facebook Weight Loss Group?** | Sherry Pagoto, Molly Waring, Danielle Jake-Schoffman, Jared Goetz, Zachary Michaels, Jessica Oleski, Joseph DiVito

**SoMe and Self Harm: The Use of Social Media in Depressed and Suicidal Youth** | Jennifer Lee Carey, Brittany Chapman, Peter Chai, Danielle Jake-Schoffman, Stephanie Carreiro, Nathalie Nader, Sherry Pagoto

**Tweeting Your Mental Health: an Exploration of Different Classifiers and Features with Emotional Signals in Identifying Mental Health Conditions** | Xuetong Chen, Martin Sykora, Thomas Jackson, Suzanne Elayan, Fehmidah Munir

**Mobile Health Intervention Development Principles: Lessons from an Adolescent Cyberbullying Intervention** | Megan Ranney, Sarah Pittman, Michele Ybarra, Jeff Huang, Anthony Spirito, Rochelle Rosen

**Managing Complex Work Systems via Crowdfunding Platforms: How Deutsche Bank Explores AI Trends and the Future of Banking with Jovoto** | Volkmar Mrass, Christoph Peters, Jan Marco Leimeister

**Success Factors in Title III Equity Crowdfunding in the United States** | Stanislav Mamonov, Ross Malaga

**Effect of Auction Design on Bidder Entry: Evidence from An Online Labor Market** | Yili Hong, Benjamin Shao, Peiyu Chen, Chen Liang

**Investor’s Anticipation and Future Market Movement: Evidence of Self-Fulfilling Prophecy Effect from Chinese Stock Market** | Yun Wan, Xiaoguang Yang
**Best Paper Nomination**

**A Structured Framework to Assess the Business Application Landscape of Blockchain Technologies**  
Gianluca Salviotti, Leonardo Maria De Rossi, Nico Abbatemarco

**Blockchain Technologies from the Consumers' Perspective: What Is There and Why Should Who Care?**  
Manuel Schlegel, Liudmila Zavolokina, Gerhard Schwabe

**A Model-driven Approach for the Description of Blockchain Business Networks**  
Stefan Seebacher, Maria Maleshkova

**Breaking Bad: De-Anonymising Entity Types on the Bitcoin Blockchain Using Supervised Machine Learning**  
Mikkel Alexander Harlev, Haohua Sun Yin, Klaus Christian Langenheldt, Raghava Mukkamala, Ravi Vatrapu

**Cross-Organizational Workflow Management Using Blockchain Technology - Towards Applicability, Auditability, and Automation**  
Gilbert Fridgen, Sven Radszuwill, Nils Urbach, Lena Utz

**Disrupting Industries with Blockchain: The Industry, Venture Capital Funding, and Regional Distribution of Blockchain Ventures**  
Maximilian Friedlmaier, Andranik Tumasjan, Isabell Welpe

**Dynamics of Blockchain Implementation - A Case Study from the Energy Sector**  
Simon Albrecht, Stefan Reichert, Jan Schmid, Jens Strüker, Dirk Neumann, Gilbert Fridgen

**Unveiling the Key Challenges to Achieve the Breakthrough of Blockchain: Insights from the Payments Industry**  
Friedrich Holotiuk, Francesco Pisani, Jürgen Moormann

**Consumer Decision Making in Multi-channel Retail: the Effects of Online Channel Media Richness and Cross-channel Integration**  
Yang Li, Hefu Liu, Qian Huang, Feng Yang, Matthew Lee

**Piracy versus Netflix: Subscription Video on Demand Dissatisfaction as an Antecedent of Piracy**  
Janne Riekkinen

**Social Media Engagement: Content Strategy and Metrics Research Opportunities**  
Marie-Catherine Perreault, Elaine Mosconi

**The Value and Risk of Curated Shopping: Online Consumer's Choice**  
Hoon Sang Cha, Soeun You

**The Impact of Scarcity Messages on the Online Sales of Physical Information Goods**  
Stefan Cremer

**Situational Factors Influencing Customers' Credit Use Online: A Behavioral Economic Approach**  
Ida Merete Øverby Markussen, Asle Fagerstrøm, Lars Sydnes

**Heads or Tails? Network Effects on Game Purchase Behavior in The Long Tail Market**  
Irfan Kanat, T. S. Raghu, Ajay Vinze

**An Educational Adventure Game for Teaching Information Literacy and Student Engagement**  
Myungjae Kwak, Alex Koohang, Kevin Floyd, Anthony Choi

**Exploring the Effect of Monetary Incentives on User Behavior in Online Sharing Platforms**  
Yixin Lu, Carol Ou, Spyros Angelopoulos

**Facts vs. Stories - Assessment and Conventional Signals as Predictors of Freelancers' Performance in Online Labor Markets**  
Christian Holthaus, Ruth Maria Stock

**Distributed Ledger Technology, the Blockchain**  
Minitrack Chairs: Isabell Welpe, Liudmila Zavolokina, Helmut Krcmar, Marcus Müller

**Consumer Decision Making in Multi-channel Retail: the Effects of Online Channel Media Richness and Cross-channel Integration**  
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**Situational Factors Influencing Customers' Credit Use Online: A Behavioral Economic Approach**  
Ida Merete Øverby Markussen, Asle Fagerstrøm, Lars Sydnes

**Game System Design and the Digital Economy**  
Minitrack Chairs: Kafui Monu, Imed Boughzala, Xi Zhang

**Heads or Tails? Network Effects on Game Purchase Behavior in The Long Tail Market**  
Irfan Kanat, T. S. Raghu, Ajay Vinze

**An Educational Adventure Game for Teaching Information Literacy and Student Engagement**  
Myungjae Kwak, Alex Koohang, Kevin Floyd, Anthony Choi
Global, International, and Cross-Cultural Issues in IS
Minitrack Chairs: Pnina Fichman, Edward Bernroider

IN 8        QUEEN’S 5        THURSDAY, 8:00 - 9:30

The Impact of National Culture on Mobile Commerce Adoption and Usage Intensity | Timo Mandler, Rouven Seifert, Christian-Mathias Wellbrock, Ingo Knuth, Reinhard Kunz

**An Open Model for Researching the Role of Culture in Online Self-Disclosure | Christine Bauer, Katharina Sophie Schmid, Christine Strauss


Innovative Behavioral IS Security and Privacy Research
Minitrack Chairs: Merrill Warkentin, Allen Johnston, Anthony Vance

IN 9        KONA 1        FRIDAY, 8:00 - 9:30

Dependent Variables in the Privacy-Related Field: A Descriptive Literature Review | Jakob Wirth

Perceived Control and Privacy in a Professional Cloud Environment | Michael Lang, Manuel Wiesche, Helmut Krcmar

Is the Privacy Paradox a Matter of Psychological Distance? An Exploratory Study of the Privacy Paradox from a Construal Level Theory Perspective | Ruwan Bandara, Mario Fernando, Shahriar Akter

IN 10       KONA 1        FRIDAY, 10:00 - 11:30

The Role of Rational Calculus in Controlling Individual Propensity toward Information Security Policy Non-Compliance Behavior | Zhengchaun Xu, Qing Hu

**Optimizing Privacy Policy Videos to Mitigate the Privacy Policy Paradox | Mark Keith, Jacob Frederickson, K. Shane Reeves, Jeffry Babb

Too Crowded to Disclose! Exploring the Relationship Between Online Crowdedness and Self-Disclosure | HanByeol Stella Choi, Chanhee Kwak, Junyeong Lee, Heeseok Lee

Exploring the Propagation of Fake Cyber News: An Experimental Approach | Michele Maasberg, Emmanuel Ayaburi, Charles Liu, Yoris Au

CybHER: A Method for Empowering, Motivating, Educating and Anchoring Girls to a Cybersecurity Career Path | Pam Rowland, Ashley Podhradsky, Shephanie Plucker

Lessons Learned from an Information Security Incident: A Practical Recommendation to Involve Employees in Information Security | Teodora Tatu, Clara Ament, Lennart Jaeger

Privacy, 5G, and Economics
Minitrack Chairs: Knud Erik Skouby, Lene Sørensen, Samant Khajuria

IN 11       KONA 1        FRIDAY, 2:00 - 3:30

Putting a Price Tag on Personal Information - A Literature Review | Amina Wagner, Nora Wessels, Peter Buxmann, Hanna Krasnova

Protecting Privacy When Releasing Search Results from Medical Document Data | Xiaobai Li, Jialun Qin

'T'm supposed to see that?’ AdChoices Usability in the Mobile Environment | Stacia Garlach, Daniel Suthers

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

IN 12       KONA 1        FRIDAY, 4:00 - 5:30

**Security In The Internet Of Things - A Systematic Mapping Study | Jari Porras, Joumi Pänkäläinen, Antti Knutas, Jayden Khakurel

An Empirical Analysis of Repurchase Behavior in Mobile Commerce According to Different Mobile Channels | Minhyung Lee, Junyeong Lee, Chanhee Kwak, Sun-Young Yoon, Heeseok Lee

Impact of Mobile Electronic Word of Mouth (EWOM) on Consumers Purchase Intentions in the Fast-Causal Restaurant Industry in Indonesia | Xiangbin Yan, Adnan Muhammad Shah, Li Zhai, Salim Khan, Syed Asad Ali Shah

Carrot-or-Stick: How to Trigger the Digitalization of Local Owner Operated Retail Outlets? | Lars Bollweg, Richard Lackes, Markus Siepermann, Peter Weber

IN 13       QUEEN’S 5       SATURDAY, 1:00 - 2:30

Lessons Learned from an Information Security Incident: A Practical Recommendation to Involve Employees in Information Security | Teodora Tatu, Clara Ament, Lennart Jaeger

**Best Paper Nomination
**Online Retailing Channel Addition: Risk Alleviation or Risk Maker?** | Lei Zhao, Huihui Chi, Wei Zhou, Yi Jiang

**The Diffusions, Impacts, Adoption and Usage of ICTs upon Society**

Minitrack Chairs: Jyoti Choudrie, Sherah Kurnia, Shahper Vodanovich

**A Real-Time Detection Algorithm for Identifying Shill Bidders in Multiple Online Auctions** | Nazia Majadi, Jarrod Trevathan

The Digital Supply Chain of the Future: Technologies, Applications and Business Models

Minitrack Chairs: Alexander Pflaum, Günter Prockl, Freimut Bodendorf, Haozhe Chen

**Drivers of Digital Transformation in Manufacturing** | Kirsten Liere-Netheler, Sven Packmohr, Kristin Vogelsang

**Chains in Chains - Logic and Challenges of Blockchains in Supply Chains** | Giulia Baruffaldi, Henrik Sternberg

Business Intelligence in Industry 4.0: State of the art and research opportunities | Fanny-Ève Bordeleau, Elaine Mosconi, Luis Antonio Santa-Eulalia

IN 14 QUEEN'S 5 SATURDAY, 3:00 - 4:30

**Under the Determinants of Cloud Computing Adoption for High Performance Computing** | Theo Lynn, Xiaoning Liang, Anna Gourinovitch, John Morrison, Grace Fox, Pierangelo Rosati

The Impacts of Requested Permission on Mobile App Adoption: The Insights Based on an Experiment in Taiwan | Hsiangchu Lai, Jack Shih-Chieh Hsu, Min-Xun Wu

**Job Seekers’ Acceptance of Job Recommender Systems: Results of an Empirical Study** | Sven Laumer, Fabian Gubler, Christian Maier, Tim Weitzel

**Says Who?: How News Presentation Format Influences Perceived Believability and the Engagement Level of Social Media Users** | Antino Kim, Alan Dennis

Disruption and Deception in Crowdsourcing: Towards a Crowdsourcing Risk Framework | Agnieszka Onuchowska, Gert-Jan de Vreede

Combating Fake News: An Investigation of Information Verification Behaviors on Social Networking Sites | Russell Torres, Natalie Gerhart, Arash Negahban

Wearable Technology and the Internet of Everything

Minitrack Chairs: Jan Kietzmann, Leyland Pitt, Ian McCarthy, Hope Schau

IN 15 QUEEN'S 5 FRIDAY, 8:00 - 9:30

Information and Communication Technology Use Continuance Behavioral Intention: Differential Effect Based on Socio-economic Status | Bangaly Kaba

Internet Use and Online Activities in U.S. States: Geographic Disparities and Socio-economic Influences | James Pick, Avijit Sarkar, Elizabeth Parrish

Understanding Benefit and Risk Framework of Fintech Adoption: Comparison of Early Adopters and Late Adopters | Hyun-Sun Ryu

How to Check Out? An Empirical Exploration of Customers' Different Cognitive Processes in Retailing Context | Tapani Rinta-Kahila, Esko Penttinen, Hans-Petterri Pääsky

IN 16 QUEEN'S 5 FRIDAY, 10:00 - 11:30

How Do IT-related Traits Drive the Internet Use of Mature Adults? The Interplay of Curiosity and Control | Robert Rockmann, Heiko Gewald

Understanding the Determinants of Cloud Computing Adoption for High Performance Computing | Theo Lynn, Xiaoning Liang, Anna Gourinovitch, John Morrison, Grace Fox, Pierangelo Rosati

The Impacts of Requested Permission on Mobile App Adoption: The Insights Based on an Experiment in Taiwan | Hsiangchu Lai, Jack Shih-Chieh Hsu, Min-Xun Wu

**Job Seekers’ Acceptance of Job Recommender Systems: Results of an Empirical Study** | Sven Laumer, Fabian Gubler, Christian Maier, Tim Weitzel

**Best Paper Nomination**
Analytics in Support of Continuous Knowledge Creation
Minitrack Chairs: Ronald Freeze, Rhonda Syler

You’ll Be Surprised - Digital Business Strategy as Driver of Organizational Innovativeness | Nico Wunderlich, Roman Beck

*Knowledge Blockchains: Applying Blockchain Technologies to Enterprise Modeling | Hans-Georg Fill, Felix Haerer

A Proposal for Deploying Hybrid Knowledge Bases: the ADOxx-to-GraphDB Interoperability Case | Dimitris Karagiannis, Robert Andrei Buchmann

Knowing and Designing: Understanding Information Use in Open Source Design Through the Lens of Information Archetypes | Kevin Lumbard, Ammar Abid, Christine Toh, Matt Germonprez

It's Just Emotion Taking Me Over: Investigating the Role of Emotions in Knowledge Management Research | Olivia Hornung, Stefan Smolnik

Crowd Science
Minitrack Chairs: John Prpić, Jan Kietzmann

A Qualitative Evaluation of IoT-driven eHealth: Knowledge Management, Business Models and Opportunities, Deployment and Evolution | Izabella Lokshina, Cees Lanting

Analyzing the Influence of Gender Stereotypes and Social Norms on Female IT Entrepreneurial Intention in Saudi Arabia | Daniel Chandran, Asma Aleidi

Internalization among Technology Entrepreneurs: Looking to the Future While Grounded in the Past | Cesar Bandera, Fazel Keshtkar, Katia Passerini

Knowledge and Innovation Management in the Age of Complexity
Minitrack Chairs: Marianne Gloet, Danny Samson

Open Innovation in Libraries | Maria Henkel, Aylin Ilhan, Agnes Mainka, Wolfgang Stock

Enabling Innovation Champions in Organizations - Results of a Systematic Literature Analysis | Victoria Reibenspiess, Katharina Drechsler, Andreas Eckhardt, Heinz-Theo Wagner

The Role of Knowledge Management in Innovative Supply Chain Design | Marianne Gloet, Danny Samson

Knowledge Economics
Minitrack Chairs: Carsten Brockmann, Narcyz Roztocki

**"Deliberated Intuition for Groups": An Explanatory Model for Crowd Predictions in the Domain of Stock-Price Forecasting | Tobias Endress, Tony Gear

Given Enough Eyeballs, all Bugs are Shallow - A Literature Review for the Use of Crowdsourcing in Software Testing | Niklas Leicht

Managing Complex Work Systems via Crowdworking Platforms: The Case of Hamburger Hochbahn and Phantomsind | Volkmann Mrass, Christoph Peters, Jan Marco Leimeister

Entrepreneurship and Knowledge Management
Minitrack Chairs: Katia Passerini, Michael Bartolacci

Understanding Shared Familiarity and Team Performance through Network Analytics | Alberto Espinosa, Mark Clark, Dorothy Carter

Innovating Beyond the Fuzzy Front End: How to Use Reward-Based Crowdfunding to Co-create with Customers | Nikolaus Lipusch, Dominik Dellermann, Sarah Oeste-Reiß, Philipp Ebel

Best Paper Nomination

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Knowledge Flows, Transfer, Sharing, and Exchange
Minitrack Chairs: K. D. Joshi, Lynne Cooper, Nathan Johnson

KS 8  KING’S 3  FRIDAY, 8:00 - 9:30
Designing Technology to Overcome the Lack of Transmission of HPV Facts: Step One - A Theory of the Problem | Hind Bitar, Terry Ryan

**Data Analytics and Knowledge Integration Mechanisms: The Role of Social Interactions in Innovation Management | Giorgi Shuradze, Heinz-Theo Wagner

Knowledge Flows in the Form of Entanglement and 'Cuts': An Agential Realist Perspective on Knowledge Construction Phenomena within an Aircraft Engine Manufacturing Workplace | W. David Holford

KS 9  KING’S 3  FRIDAY, 10:00 - 11:30
Exploratory Key Nodes in the Inventor-author Knowledge Diffusion Network | Guijie Zhang, Fangfang Wei, Zhen Shao

Co-membership, Networks Ties, and OSS Success: An Investigation Controlling for Alternative Mechanisms for Knowledge Flow | Gang Peng, Feng (George) Yu, Yiqun Peng

Where Affinity Meets Practice: Emerging Communities of Practice to Meet the Needs of Korean IT Professionals | Ada Kim, Hala Annabi

Knowledge Management and Information Security
Minitrack Chairs: Alexandra Durcikova, Murray Jennex

KS 10  KING’S 3  SATURDAY, 8:00 - 9:30
Don't Want to Get Caught? Don't Say It: The Use of EMOJIS in Online Human Sex Trafficking Ads | Jessica Whitney, Murray Jennex, Aaron Elkins, Eric Frost

Cyber Clinics: Re-imagining Cyber Security Awareness | David Croasdell, James Elste, Adrienne Hill

Knowledge Management and Strategic Planning
Minitrack Chairs: Alexander Kaiser, Markus Peschl, Jan Mendling

KS 11  KING’S 3  THURSDAY, 8:00 - 9:30
Identifying Knowledge Enablers in Organizational Visions: A Synthesis of Theory and Practice | Florian Kragulj, Alexander Kaiser, Thomas Grisold

Knowledge Society, Culture, and Knowledge Systems
Minitrack Chairs: Minna Rollins, Nilmini Wickramasinghe, Mika Gabrielsson

KS 12  KING’S 3  SATURDAY, 1:00 - 2:30
Market Knowledge and Dynamic Capabilities in Creating Competitive Advantage in an International New Venture | Anders Pehrsson, Minna Rollins

Effects of Social Media Usage on the Speed of International Growth of an International New Venture | Sara Fraccastoro, Mika Gabrielsson

Agricultural Knowledge Management System Development for Knowledge Integration | Dejen Alemu, Murray Jennex, Temtem Assefa

Organizational Learning
Minitrack Chair: Julee Hafner

KS 13  KING’S 3  SATURDAY, 3:00 - 4:30
Influence of Data Analysis, Entrepreneurial and Business Skills on Information Technology Firms: A Dynamic Capabilities Approach | Michail Giannakos, Patrick Mikalef, Ilias Pappas

ERP Knowledge: Enhancing Program Growth for Workforce Impact | Ronald Freeze, Susan Bristow

"Do I Want to Have Losers In My Team?" - A Quantitative Study of Learning from IT Project Failure | Christoph Pflügler, Thorsten Malzer, Tamara Jäschke, Manuel Wiesche, Helmut Krcmar

Transforming Temporary Organizations to Permanence: Examining the Role of Information Systems | Gaurav Gupta, Indranil Bose

** Best Paper Nomination
Towards a Conceptual Framework for Persistent Use: A Technical Plan to Achieve Semantic Interoperability within Electronic Health Record Systems | Shellon Blackman-Lees

How to Discover Knowledge for Improving Availability in the Manufacturing Domain? | Fabian Utz, Christian Neumann, Omid Tafreschi

**Towards a Prioritization of Needs to Support Decision Making in Organizational Change Processes** | Alexander Kaiser, Florian Fahrenbach, Florian Kragulj, Thomas Grisold

Understanding Knowledge Flow Dynamics during the Pre-implementation Phase of an Enterprise Resource Planning Project | Lina Lo

Design of mobile application for self-reporting affective experiences | Jari Jussila, Virpi Sillanpää, Nina Helander, Vilma Vuori, Mika Boedeker, Jari Liukkonen, Kari Suoja, Alberto Felicetti, Cinzia Raso

Living Labs: A Bibliometric Analysis | Shane McLoughlin, Giovanni Maccani, David Prendergast, Brian Donnellan

How to Include Humanoid Robots into Experimental Research: A Multi-Step Approach | Nadine Homburg

Portraying Design Essence | Leona Chandra Kruse, Jeffrey Nickerson

In Search of a Cure for a Psychosis in Information Systems Design: Co-created Design and Metaphorical Appreciation | Leslie Waguespack, Jeffry Babb, David Yates

**Best Paper Nomination**
**Best Paper Nomination**

**Role of CDOs in the Digital Transformation of SMEs and LSEs. An Empirical Analysis.** | Wolfgang Becker, Oliver Schmid, Tim Botzkowski

**A Multi-case Study on Industry 4.0 for SME’s in Brandenburg, Germany** | Mayur Andulkar, Duc Tho Le, Ulrich Berger

**Legitimate Peripheral Participation in Hybrid FOSS Community Innovation** | Susan Gasson, Michelle Purcell

**A Modelling Technique for Enterprise Agility** | Joshua Chibuike Nwokeji, Faisal Aqlan, Tony Clark, Balbir Barn, Vinay Kulkarni

**Connected Enterprise Meets Connected Customer - A Design Approach** | Marcus Fischer, Florian Imgrund, Gregor Friedrich-Baasner, Christian Janiesch, Axel Winkelmann

**A Reference Model-driven Architecture Linking Business Processes and Services** | Andrea Delgado, Francisco Ruiz, Ignacio García-Rodríguez de Guzmán

**Digital Service Platform Evolution: How Spotify Leveraged Boundary Resources to Become a Global Leader in Music Streaming** | Daniel Skog, Henrik Wimelius, Johan Sandberg

**Genetic Platforms and Their Commercialization: Three Tales of Digital Entrepreneurship** | Sirkka Jarvenpaa, M. Lynne Markus

**Collaborative Service Blueprinting for Design Thinking: Evaluation of a Digital Prototype** | Tobias Potthoff, Dominik Siemon, Konstantin Wilms, Sascha Möser, Marco Hellmann, Stefan Stieglitz, Susanne Robra-Bissantz

**Digital Innovation as Design of Digital Practice: Doctors as Designers in Healthcare** | Mark Aakhus, Pär Ågerfalk, Fredrik Lennmyr

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

**Identifying the Critical Success Factors for Low Customized ERP System Implementations in SMEs** | Jeroen Wolters, U. Yeliz Eseryel, Deniz Eseryel

**Instantiations of an ERP Implementation Methodology: A Critical Realist Case Study** | Daniela Mihailescu, Marius Mihailescu, Sven Carlsson

**Cloud Computing in SMEs: A Qualitative Approach to Identify and Evaluate Influential Factors** | Gregor Friedrich-Baasner, Marcus Fischer, Axel Winkelmann

**Contractual and Relational Governance, ICT Skills and Organization Adaptations, and Cloud Computing Benefits** | Euripidis Loukis, Niki Kyriakou

**Information Security Awareness: Literature Review and Integrative Framework** | Lennart Jaeger

**A Policy Framework for Subject-Driven Data Sharing** | Mohammad Jabeed Morshed Chowdhury, Alan Colman, Jun Han, Muhammad Ashad Kabir

**Internalization of Information Security Policy and Information Security Practice: A Comparison with Compliance** | Minjung Park, Sangmi Chai

**OS 5**

KOHALA 4  **THURSDAY, 2:00 - 3:30**

**OS 6**

KOHALA 4  **THURSDAY, 4:00 - 5:30**

**OS 7**

KOHALA 4  **FRIDAY, 8:00 - 9:30**

**OS 8**

KOHALA 4  **FRIDAY, 10:00 - 11:30**

**OS 9**

KOHALA 3  **SATURDAY, 3:00 - 4:30**

**OS 10**

KONA 1  **THURSDAY, 8:00 - 9:30**
**Best Paper Nomination**

**Web Tracking - A Literature Review on the State of Research** | Tatiana Ermakova, Benjamin Fabian, Benedict Bender, Kerstin Klimek

**Host Inventory Controls and Systems Survey: Evaluating the CIS Critical Security Control One in Higher Education Networks** | Philip Kobezak, Randy Marchany, David Raymond, Joseph Tront

**Crowdsourcing Privacy Design Critique: An Empirical Evaluation of Framing Effects** | Oshrat Ayalon, Eran Toch

**Future Prospects of Cyber Security in Manufacturing: Findings from a Delphi Study** | Katariina Kannus, Ilona Ilvonen

**Should You Disclose a Data Breach via Social Media? Evidence from US Listed Companies** | Pierangelo Rosati, Peter Deeney, Mark Cummins, Lisa van der Werff, Theo Lynn

**Panel: Future Direction for Research**

**Information Systems Success and Benefits Realization**
Minitrack Chairs: Samuli Pekkola, Tero Paivarinta

**From Strategic Intent to Implementation: How Information Technology Initiatives Take Shape in Organizations** | Deepak Khazanchi, Dawn Owens

**Searching Success in a Successful IS Acquisition** | Maija Ylinen, Samuli Pekkola

**There Is Still No "Fit for All" IS Development Method: Business Development Context and IS Development Characteristics Need to Match** | Tomi Dahlberg, Altti Lagstedt

**Using the Viable System Model to Study IT Governance Dynamics: Evidence from a Single Case Study** | Tim Huygh, Steven De Haes

**Motivating CIO Advice Networking to Improve Firm Performance** | Jeffrey Pittaway, Hamed Qahri-Saremi, Ali Reza Montazemi

**The Complementarity of Corporate IT Alignment and Business Unit IT Alignment: An Analysis of Their Joint Effects on Business Unit Performance** | Magno Queiroz, Tim Coltman, Paul Tallon, Rajeev Sharma, Peter Reynolds

**Information Governance in the Big Data Era: Aligning Organizational Capabilities** | Patrick Mikalef, John Krogstie, Rogier van de Wetering, Ilias Pappas, Michail Giannakos
** Best Paper Nomination

**Enabling the Mapping of Internet of Things Ecosystem Business Models through Roles and Activities in Value Co-creation | Heini Ikaavalo, Petra Turkama, Anssi Smedlund

**Visualizing Ecosystems of Hype | Rahul Basole

Complementor-side Ecology and its Implications on Platform Strategy | Sungho Lee, Sung Joo Bae, Mooweon Rhee, Minah Park

Could Nearby Pokéstops Improve Restaurants’ Online Reputation? | Yuan Zhang, Jie Zhang

University-Industry Programs as Platforms: A Case Study of Multi-Disciplinary Collaborative Network Development | Arash Hajikhani, Martha Russell, Karina Alexanyan, Erin Young, Jason Wilmot

Charting the Emerging Financial Services Ecosystem of Fintechs and Banks: Six Types of Data-Driven Business Models in the Fintech Sector | Julian Schmidt, Paul Drews, Ingrid Schirmer

Designing Data Governance in Platform Ecosystems | Sung Unee Lee, Liming Zhu, Ross Jeffery

Introducing Platform Interactions Model for Studying Multi-Sided Platforms | Kalina Staykova, Jan Damsgaard

Organizational Data and Analytics Contracting in Smart City Fog Computing Platforms | Michael Goul, Vineet Mishra, Divyesh Dnyanmothe

Doing Good with Data: Development of a Maturity Model for Data Literacy in Non-governmental Organizations | Helena Sternkopf, Roland M. Mueller

Implementation Challenges of Self Service Business Intelligence: A Literature Review | Christian Lennerholt, Joeri van Laere, Eva Soderstrom

Practice-based IS Research

Minitrack Chairs: Dorothy Leidner, Ester Gonzalez, Bill Kettinger, Michael Milovich

**Hunch Mining: Intuition Augmented with Cognitive Computing, Analytics, and Artificial Intelligence | Jim Nelson, Terry Clark, Ian Stewart

Visibility of Work: How Digitalization Changes the Workplace | Hanna Timonen, Johanna Vuori

An Exploratory Study of Current Information Security Training and Awareness Practices in Organizations | Moneer Alshaikh, Sean Maynard, Atif Ahmad, Shanton Chang

Social-Technical Issues in Organizational Information Technologies

Minitrack Chairs: Michael Knight, Dragos Vieru, Dawn Medlin

**Recruiting Women in IT: A Conjoint-Analysis Approach | Marvin Schuth, Prisca Brosi, Isabell Welpe

When Competence Matters - Professionals with Disabilities in the ICT Sector | Jukka Mononen, Eija Hayrynen, Raija Halonen

Design Recommendations for Web-based Career Guidance Platforms - Let Young Women Experience IT Careers! | Ute Paukstadt, Katrin Bergener, Jorg Becker, Valerie Dahl, Cornelia Denz, Inga Zeisberg

** Best Paper Nomination
What is Digital Organizational Culture? Insights from Exploratory Case Studies | Sebastian Duerr, Friedrich Holotiuk, Heinz-Theo Wagner, Daniel Beimborn, Tim Weitzel

Role of IT Management and the Dynamics Behind IT Business Value Creation - A Longitudinal Assessment | Tomi Dahlberg, Hannu Kivijärvi

Are Women Affinity Groups Enough to Solve the Retention Problem of Women in the IT Workforce? | Hala Annabi, Mina Tari

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

Vanishing Borders in the Internet Age: The Income Elasticity of the Supply of Foreign Labor in Virtual versus Physical Markets | Jing Gong, Yili Hong, Alejandro Zentner

A Poisoned Chalice: Impact of Introducing a Store on Social Media Fan Pages on Customer Engagement and Product Sales | Shuting Ada Wang, Sunil Wattal

**When Old Meets New: Wholesale and Agency Models in the Market for Printed and Electronic Books | Antino Kim

Pay-per-download or Freemium: Revenue Models in a Competitive Mobile App Market | Xiaoxiao Luo, Jie Zhang

Security Circumvention: To Educate or To Enforce? | Debabrata Dey, Abhijeet Ghoshal, Atanu Lahiri

The Dynamics of Asset Sharing and Private Use | Thomas Weber

Corporate Knows Best (Maybe): The Impact of Global versus Local IT Capabilities on Business Unit Agility | Magno Queiroz, Paul Tallon, Tim Coltman, Rajeev Sharma

On the Economies of Scale and Budget Allocations in Information Technology Services Provision | Sunil Mithas, Kunsoo Han, M.S. Krishnan


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

Consequences of Discontinuing Knowledge Work Automation - Surfacing of Deskillling Effects and Methods of Recovery | Tapani Rinta-Kahila, Esko Penttinen, Antti Salovaara, Wael Soliman

**“Do You Plead Connected?” - Understanding How Lawyers Deal With Constant Connectivity | Mauro Reto Gruber, Christina Sarigianni, Manfred Geiger, Ulrich Remus

Personality Predictors of IT Addiction | Isaac Vaghefi, Hamed Qahri-Saremi

Investigating Malware Epidemiology and Child Exploitation Using Algorithmic Ethnography | Paul Watters

** Best Paper Nomination
### Theory and Information Systems
Minitrack Chairs: Dirk Hovorka, Kai Larsen

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<tr>
<td>Extracting Causal Claims from Information Systems Papers with Natural Language Processing for Theory Ontology Learning</td>
<td>Roland Mueller, Sebastian Huettemann</td>
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<td>Information Processing and Demand Response Systems Effectiveness: A Conceptual Study</td>
<td>Silpa Sangeeth L.R., Saji Mathew</td>
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<td>Action-Structure Paradox in a Strategic Information System Change Process</td>
<td>Taru Salmimaa</td>
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### Topics in Organizational Systems and Technology
Minitrack Chairs: Mark Frolick, Kelly Rainer, Jim Ryan

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<td>OS 31</td>
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<td>Informed Systems: To Advance Organizational Capacity and Co-Worker Capability</td>
<td>Mary Somerville, Anita Mirijamdotter, Christine Bruce, Niraj Chaudhary, Sadaf Salavati</td>
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<td>Answering Key Global IT Management Concerns Through IT Governance and Management Processes: A COBIT 5 View</td>
<td>Tim Huygh, Steven De Haes, Anant Joshi, Wim Van Grembergen</td>
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<td>Sharpening the Ethnographer’s Toolkit: Introducing the Freelist Method to Information Systems Research</td>
<td>Christopher Califf, Tyler Stumpf</td>
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### Trust, Identity, and Trusted Systems in Digital Environments
Minitrack Chairs: Sirkka Jarvenpaa, Robin Teigland

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<td>Towards a Framework of Trust Determinants in People and Cognitive Assistants Interactions</td>
<td>Md. Abul Kalam Siddike, Youji Kohda</td>
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<td>Trust and Distrust in Two-sided Markets: An Example in the Sharing Economy</td>
<td>Christoph Mittendorf</td>
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<td>Understanding the Intention to Trust Product Information and Certifications to Promote Sustainable Consumption: Applying the Theory of Planned Behavior</td>
<td>Djoko Sayogo, Jing Zhang, Sergio Picazo-Vela, Babak Bahaddin, Luis Luna-Reyes</td>
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### ST: Software Technology
Co-Chairs: Gul Agha and Rick Kazman

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<td>Towards Measuring the Agility of Software Business</td>
<td>Hanna Kinnunen, Eetu Luoma</td>
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<td>Antecedents of Preference for Agile Methods: A Project Manager Perspective</td>
<td>David Bishop, Pam Rowland, Cherie Noteboom</td>
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<td>Scrum in Practice: An Overview of Scrum Adaptations</td>
<td>Michal Hron, Nikolaus Obwegeser</td>
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** Best Paper Nomination
Thoughts on Current and Future Research on Agile and Lean: Ensuring Relevance and Rigor | Jeff Saltz, John Tripp, Dan Turk

A Wheelbarrow Full of Frogs: Understanding Portfolio Management for Agile Projects | Isabelle Smeekes, Hans Borgman, Hauke Heier

**Subgroups in Agile and Traditional IT Project Teams | Christoph Pflügler, Manuel Wiesche, Helmut Krcmar

Cybersecurity and Software Assurance
Minitrack Chairs: Luanne Burns Chamberlain, Thomas Llanso, Richard George

Secure Data Communication via Lingual Transformation | Jeffrey Johnson, Robert Houghton, Thomas Hilton, Kwok Fai Cheah

**An Empirical Study of Security Issues Posted in Open Source Projects | Mansooreh Zahedi, Muhammad Ali Babar, Christoph Treude

Estimating Software Vulnerability Counts in the Context of Cyber Risk Assessments | Thomas Llanso, Martha McNeil

Cyber Threat Intelligence and Analytics
Minitrack Chairs: Kim-Kwang Raymond Choo, Ali Dehghantanha

**Techniques to Improve Stable Distribution Modeling of Network Traffic | Chad Bollmann, Murali Tummala, John McEachen, Jim Scrofani, Mark Kragh

A Novel Hybrid Authentication Model for Geo Location Oriented Routing in Dynamic Wireless Mesh Networks | Ashish Nanda, Priyadarsi Nanda, Xiangjian He, Aruna Jamdagni, Deepak Puthal

A SPL Framework for Adaptive Deception-based Defense | Cristiano De Faveri, Ana Moreira

Cyber-Assurance for Internet of Things and Fog Computing Architectures
Minitrack Chairs: Tyson Brooks, Shiu-Kai Chin, Erich Devendorf

Addressing Operator Privacy in Automatic Dependent Surveillance - Broadcast (ADS-B) | Ryan Gauthier, Remzi Seker

**Securing Wearables through the Creation of a Personal Fog | Charles Walter, Ian Riley, Rose Gamble

Cyber-of-Things: Cyber Crimes, Cyber Security and Cyber Forensics
Minitrack Chairs: William Glisson, Kim-Kwang Raymond Choo

On the Effectiveness of Hardware Enforced Control Flow Integrity | Austin Gadient

A Novel Method to Enhance ISSP Compliant: An Approach Drawing upon the Concept of Empowerment in ERM System Workflow | Soohyun Jeon, Zeelim-Hovav Anat

Short-Term and Long-Term Solutions for Secure Verification of Aircraft-Reported ADS-B Location in Air Traffic Networks | Nikki Manuel, Depeng Li

Frontiers in AI and Software Engineering
Minitrack Chair: Tim Menzies
**IS Risk and Decision-Making**  
Minitrack Chairs: Dan Port, Joel Wilf

**ST 8**  
**WAIKOLAO 3**  
**SATURDAY, 10:00 - 11:30**

Assessing the Risk of an Adaptation using Prior Compliance Verification | Allen Marshall, Sharmin Jahan, Rose Gamble

**Metrics, Models, and Simulation for Cyber-Physical Systems**  
Minitrack Chairs: Barry Charles Ezell, Luanne Burns Chamberlain

**ST 9**  
**WAIKOLAO 3**  
**SATURDAY, 1:00 - 2:30**

Analyzing the Instability of the Core Components of Software Projects | Lerina Aversano, Daniela Guarda, Maria Tortorella

**Semi-symbolic Simulation and Analysis of Deviation Propagation of Feature Coordination in Cyber-physical Systems** | Michael Rathmair, Christoph Luckeneder, Hermann Kaindl, Carna Radojicic

**Security and Critical Infrastructure for Cloud, IoT and Decentralized Trust**  
Minitrack Chairs: William Yeager, Jean-Henry Morin

**ST 10**  
**KONA 1**  
**SATURDAY, 3:00 - 4:30**

**On Software Standards and Solutions for a Trusted Internet of Things** | David Maher

Drivers vs. Inhibitors - What Clinches Continuous Service Certification Adoption by Cloud Service Providers? | Heiner Teigeler, Sebastian Lins, Ali Sunyaev

**Software Development for Mobile Devices, Wearables, and the Internet-of-Things**  
Minitrack Chairs: Tim Majchrzak, Tor-Morten Grønli

**ST 11**  
**QUEEN’S 6**  
**THURSDAY, 2:00 - 3:30**

Metamorphic Testing of Navigation Software: A Pilot Study with Google Maps | Joshua Brown, Zhi Quan Zhou, Yang-Wai Chow

A Language-based Approach for Interoperability of IoT Platforms | Maurizio Gabbielli, Saverio Giallorenzo, Ivan Lanese, Stefano Pio Zingaro

Energy-Aware Scheduling of Conditional Task Graphs on NoC-Based MPSoCs | Umair Ullah Tariq, Hui Wu, Suhaimi Abd Ishak

Best Paper Nomination
**Wireless Networks**

Minitrack Chairs: Edoardo Biagioni, John McEachen, Murali Tummala

**ST 15** QUEEN'S 6 FRIDAY, 8:00 - 9:30

**MoHiD: A Scalable Mobility Platform Based on Hierarchical DHT** | Haeun Kim, Jaehyun Park, Sangyup Han, Myungchul Kim

**Network-wide Measurement of TCP RTT in 2G Networks** | Bernd Pfitzinger, Tommy Baumann, Andreas Emde, Dragan Macos, Thomas Jestädt

**Modeling the GPRS Network Latency with a Double Pareto-lognormal or a Generalized Beta Distribution** | Bernd Pfitzinger, Tommy Baumann, Andreas Emde, Dragan Macos, Thomas Jestädt

**ST 16** QUEEN'S 6 FRIDAY, 10:00 - 11:30

**Quantifying Location Privacy in Urban Next-Generation Cellular Networks** | John Roth, Murali Tummala, John McEachen, James Scrofani

**Techno-Economic Analysis of 5G Deployment Scenarios involving Massive MIMO HetNets over mmWave: A Case Study on the US State of Texas** | Ashutosh Jha, Debashis Saha
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