Information Technology in Healthcare Track (HC)
Co-Chairs: William Chismar and Tom Horan

Global Health IT Strategies
Minitrack Chairs: Joseph Tan, Nilmini Wickramasinghe, Michael Dohan

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

**Value - Mapping IT Platform Options in Global Health: A Multi-Year Case of Code Rot versus the Event-Driven Outbreak Economy**
Dominic Thomas, Renee Subramanian

Vis-Health: Exploratory Analysis and Visualization of Dengue Cases in Brazil
Naira Kaieski, Luiz Paulo Luna de Oliveira, Marta Becker Villamil

The Role of Social Networking in Healthcare
Nicole O'Brien, Joseph Tan, Yufei Yuan

Health Behavior Change Support Systems
Minitrack Chairs: Harri Oinas-Kukkonen, Khin Tan Win, Samir Chatterjee

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

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

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

Discovering Design Principles for Persuasive Systems: A Grounded Theory and Text Mining Approach
Mohammad Aref Al-Ramahi, Omar El-Gayar, Jun Liu

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

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

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

The Effect of ‘Device’ in Task-Technology Fit: A Study of German Hospitals
Michael Weber, Corinna Gewald, Andy Weeger, Ulrich Haase

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Validating Scanned Foot Images and Designing Customized Insoles on the Cloud
Gabor Terstyanszky, Tamas Kiss, Simon Taylor, Anastasia Anagnostou, Miguel Subira, Giuseppe Padula, Enrique De Meer Alonso, Jose Manuel Martin Rapun

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

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

** Best Paper Nomination
Semantic Selection of Healthcare Apps
Hamda Almarri Binhubash, Radmila Juric, Bilal Mughal

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

Learning Health Systems
Minitrack Chairs: Kevin Sullivan, Alon Y. Ben-Ari, Bill Chismar, Thomas Horan

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

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

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

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

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

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

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

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

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

Designing a Game to Reduce Stress for Congestive Heart-Failure (CHF) Patients
Ala Alluhaidan, Miloslava Plachkinaova

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

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

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

Effects of Journaling Dietary Intake App on the Health Outcomes of Chronic Kidney Disease Stage 3B-5
Jei-Fuu Chen, Ling-Ling Wu, Seng-Cho Chou

** Best Paper Nomination
**Technologies for Clinical Decision-Making, Interventions, and Wellness**
Minitrack Chairs: Janet Brigham, Benjamin Schooley, Rochelle Rosen, Beth Bock

**HC 11**

Kauai 6

Wednesday, 2:00 - 3:30 pm

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

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

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

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

**Technologies for Healthy Aging**
Minitrack Chairs: Aaron Crandall, Diane Cook, Maureen Schmitter-Edgecombe

**HC 12**

Kauai 6

Thursday, 10:00 - 11:30 am

Predicting Adult Children’s Decisions to Use Online Elderly Health Information for their Aged Parents
Yukun Bao, Md. Rakibul Hoque, Shiyu Wang

Prototyping a Health and Wellbeing Platform: an Action Design Research Approach
Wally Keijzer-Broers, Lucas Florez-Atehortua, Mark de Reuver

Adherence to Medical Recommendations and Treatments by Elderly Patients: USEFIL Web Services Addressing this Challenge
Homer Papadopoulos, Antonis Korakis

**Predictive Analytics Dashboard for Monitoring Patients in Advanced Stages of COPD**
Riad Alharbey

**User Experience Design for Health and Wellness**
Minitrack Chairs: Richard Burkhard, Ann Fruhling, Soussan Djamasbi

**HC 13**

Kauai 6

Wednesday, 8:00 - 9:30 am

Design Implications of User Experience Studies: The Case of a Diabetes Wellness App
Bengisu Tulu, Diane Strong, Lei Wang, Qian He, Emmanuel Agu, Peder Pedersen, Soussan Djamasbi

Insights from the Design and Evaluation of a Personal Health Dashboard
Ashley Colley, Kirsi Halttu, Marja Harjumaa, Harri Oinas-Kukkonen

MyData Approach for Personal Health - A Service Design Case for Young Athletes
Jonna Häkkilä, Mira Alhonsuo, Lasse Virtanen, Juho Rantakari, Ashley Colley, Timo Koivumäki

**Best Paper Nomination**