

SDPS 2016



SCHEDULE OF EVENTS

Rosen College of Hospitality Management

December 4 - 6, 2016, Orlando, Florida

13:45 - 14:30	Workshop Sessions on Sunday, December 4
Room 205	INNOVATIVE AND COMPATIBLE DESIGN FOR SMART CITIES Xiaojuan (Julia) Zhang, PhD, Jia Yuan Yu, PhD
Room 206	DESIGN OF ALTERNATIVE AND COMMUNITY-BASED CARE PROGRAMS Sam Marathe, PhD, John Gill, Karen van Caulil, PhD, Shi-Nian "Stone" Cao, MD
Room 208	HUMAN FACTORS AND CLINICAL DECISION SUPPORT SYSTEMS Varadraj P. Gurupur, PhD, Thomas T.H. Wan, PhD

13:00 - 13:45	Workshop Sessions on Monday, December 5 Session I/II
Room 205	WEB OF COMMON VALUES APPLIED TO SMART HEALTHY AND INNOVATIVE SOCIETIES: AN APPLICATION OF LIVING LABORATORY Fuad Gattaz Sobrinho, PhD
Room 206	NAVIGATING DATA MANAGEMENT SCIENCE FROM DATA MINING TO PREDICTIVE ANALYTICS AND APPLICATIONS Thomas T.H. Wan, PhD, Peter Aiken, PhD, Charles Shasky, PhD, Morgan Wang, PhD
Room 207	HEALTHCARE TECHNOLOGY TRANSFERS IN POPULATION HEALTH AND SYSTEMS ENGINEERING Meghan Hufstader Gabriel, PhD, Qun "Treen" Huo, PhD, Daniel C. L. Hsu, PhD, Waldemar Karwowski, PhD

13:45 - 14:30	Workshop Sessions on Monday, December 5 Session II/II
Room 205	HEALTH-DATA LIFE CYCLE, SYSTEMS AROUND IT, AND mHEALTH Bunyamin Ozaydin, PhD, Ferhat Zengul, PhD, MBA, Donna Slovensky, PhD, Donna Malvey, PhD, MHA, Alexis R. Neigel
Room 206	INDIVIDUALIZED MEDICINE: THE FUTURE OF HEALTHCARE, GENOMICS AND STEM CELL RESEARCH Mei Zhao, PhD, Mario Carranza, MHA, Jeffrey Harrison, PhD
Room 207	FEATURED WORKSHOP: PROMOTING JOURNAL OF INTEGRATED DESIGN AND PROCESS Kyoung-yun Kim, PhD, Varadraj Gurupur, PhD, Patrick Then, PhD, Yong Zeng, PhD, Bhuvan Unhelkar, PhD, Aurelie Aurilla Bechina Arntzen PhD
Room 209	STRATEGIES FOR RECRUITING AND RETAINING WOMEN, MINORITIES AND PEOPLE WITH DIFFERENT LEVELS OF ABILITIES IN STEM MAJORS AND CAREERS Daniela Marghitu, PhD, Mohammad R. Haider, PhD, Michael Lipscomb, JD, Overtoun Jenda, PhD

13:00 - 15:00	Tutorials on Tuesday, December 6
Auditorium RSH 101	AN INTEGRATION FRAMEWORK FOR MOBILE AND CLOUD COMPUTING Leon Jololian, PhD
Dining Room RSH 124	BIG DATA STRATEGIES FOR AGILE BUSINESS Dr. Bhuvan Unhelkar BE, MDBA, MSc, PhD; FACS; CBAP.

Can Tracheostomy Improve Outcome and Lower Resource Utilization for Patients with Prolonged Mechanical Ventilation?

- *Ciou Rong Yuan, Tzuo Yun Lan and Gau Jun Tang*

A Two Stage Evaluation Method for investigating the Associations between Patients' Perceived Emotional satisfaction and Medical Space Design.

- *Ying-Chyi Chou and Ching-Hua Lu*

Health Disparities in Environmental Supports of Walking/Biking and Traffic Safety

- *Chia-Yuan Yu* 3rd-prize recipient in poster competition

Determinants of Medicare Shared Savings Program Accountable Care Organization Year One Performance

- *Yi-Ling Lin, Thomas Wan, Donna Malvey, Xinliang Liu and Julie Steen*

Data Breach Locations, Types, and Associated Characteristics among U.S. Hospitals

- *Ashley Rutherford, Meghan Hufstader Gabriel, Amanda Walden, Alice Noblin and Kendall Cortelyou-Ward* 2nd-prize recipients in poster competition

Developing and pilot-testing a suite of social media use indexes to measure social media active and engagement levels – Implication for online social media health intervention development & evaluation

- *Su-I Hou*

The RFID Protocol with Unlimited Item-level Ownership Transfer for Supply Chain Environments

- *Tzu-Wei Lin, Chien-Lung Hsu and Lung-Hui Panb*

Design and Evaluation of An Intelligent Health Promotion System based on Serious Games with Osteoporosis Clinical Practice Guideline

- *Min-Wen Liao and Chien-Lung Hsu*

Population Health Management and Research for Patients with Polychronic Conditions

- *Amanda Terry, Bobbie McKee, Rebecca Tregerman and Sara Dos Santos Bárbaro*

Local Health Departments Adoption of Health Information Technology and the Impact on County-Level Health Outcomes

- *Tina Yeung*

Using Sketches to Improve Design of Hip Joint Prosthesis

- *Stephen Ekwaro-Osire, Caio Felix, Joao Paulo Dias, Ricardo Cruz-Lozano and Fisseha Alemayehu*

Determinants of Hospital Efficiency and Patient Safety in Acute Care Hospitals – Findings from a Literature Review

- *Kruparaj Shettian*

Work-family conflict among registered nurses: A look at the literature

- *Amanda Raffenaud*

BETWEEN 15:00 – 16:00

SUNDAY, DECEMBER 4

Room 205 Advances in Nano, Communication, and Process Technologies I/II
(Chair U. John Tanik)

Convergence Implications for Healthcare, Energy and Other Complex Systems

Darrell Fielder, Murat Tanik, U. John Tanik, Cristiane Gattaz and Fuad Sobrinho

Topographical Optimization of Structures for Use in Vibraphones and Other Applications

William Kirkland and Lee Moradi

Random Forest-Based Cost Prediction for Reusable Medical Equipment Service Life Cycle Management

Kyoung-Yun Kim, Nilanjan Joshi and Junheung Park

Room 206 Innovative Technologies and Their Applications in Healthcare I/IV
(Chair Aurelie Aurilla Arntzen Bechina)

Segmentation of Brain TUMOR Based on Tsallis Multi-Thresholding and Level Set

Vedavathi B. S, S. G. Hiremath, V Rajinikanth, Mohammed Shafeeq Kallangadi, Steven Fernandes and Josemin Bala

Simultaneous Fusion and Denoising Of Bone - Vessel Information Via PCA Based Fusion

Ayush Dogra, Vedavathi B.S, Steven Lawrence Fernandes, Sunil Agrawal, Bhawna Goyal, Mohammed Shafeeq Kallangadi, Mohammad Anwar Manjanoor, Achala Rathnakar Shetty, Purushotham B and Ananth Prabhu

An Investigation of Cost Based Framework for Documentation Reuse

Jonny Haugen, Aurelie Aurilla Arntzen Bechina

Room 207 Advances in Biomedical Devices, Wearables and Mobile Apps
(Chair Radmila Juric)

Mobile Device for Administering Drug Dosage in Patients Who Suffer from Parkinson's Disease

Klemen Bravhar and Radmila Juric

Gait Analysis of Normal Horses Using Wavelets

Dan Marghitu and Daniela Marghitu

Room 207 Predictive Analytics and Simulations in Healthcare I/II (Chair Radmila Juric)

Healthcare - Probabilistic Techniques for Bone as a Natural Composite

Stephen Ekwaro-Osire, Godlove Wanki and Joao Paulo Dias

Room 208 Innovative Technologies and Their Applications in Healthcare II/IV
(Chair Varadraj Prabhu Gurupur)

Design and Evaluation of Restraint Belts in Safe Environment for Patients and Staff

Hsiu-Lan Li, Shih-Wei Lin, Hsiu-Feng Lee and Chih-Teng Chiang

Implementing Low-Cost Electronic Medical Records System in Underserved Communities

Vignesh Vudatha and Judith Simms-Cendan

Fragmentation vs. Innovative Integration: Designing 21st Century Healthcare Systems in The United States—A Brief Discussion on Models, Designs, & Processes

Matt Bagwell

BETWEEN 16:00 – 17:00

SUNDAY, DECEMBER 4

Room 205 Advances in Nano, Communication, and Process Technologies II/II
(Chair Serkan Guldal)

Data Transmission Strategies for UAV: an Overview and Future Perspectives

Zhili Shao, António L. L. Ramos and José A. Apolinário Jr.

Communication System Modeling and Analysis - A Practical Approach for Wireless Communication

Saleh Allehaibi, Serkan Guldal and Murat M. Tanik

Room 206 Innovative Technologies and Their Applications in Healthcare III/IV
(Chair David Robbins)

A Roadmap for Increasing Healthcare Provider Empathy through Virtual Reality Experiences

David Robbins, Harold Neumeier and John Galdo

Advances and future perspectives on computer-aided diagnosis: the case of automatic polyp detection based on gastrointestinal imaging

Qinghui Liu and António L. L. Ramos

A Mobile Robot for Autonomous Disinfection of Patient Rooms

Simon Falden, John Mulholland, Aurilla Aurelie Bechina Arntzen

Room 207 Knowledge Transformation and Semantics in Healthcare Systems
(Chair Radmila Juric)

Towards the Automatic Coding of Medical Transcripts to Improve Patient-Centered Communication

Gilchan Park, Julia Rayz and Cleveland Shields

Knowledge Dissemination in Biomedical Science: Using Ontological Reasoning for the Analyses of Activated Enzymes in various Diseases

Ibtesam Almami, Eiman Almami and Radmila Juric

Room 207 Predictive Analytics and Simulations in Healthcare II/II (Chair Radmila Juric)

Information Processing in Electronic Medical Records: A Survey Validation

Cynthia Williams and Hanadi Hamadi

Room 208 Innovative Technologies and Their Applications in Healthcare IV/IV
(Chair Aurelie Aurilla Arntzen Bechina)

Investigation of Evolution Hardware Studies on Analog Circuits for Designing Healthcare Systems

Ozgur Aksu

A Deep Learning Approach to Identify Bio-markers in Medical Brain Imaging Applications

David Odaibo, Zheng Zhang, Frank Skidmore and Murat Tanik

Room 208 Population and Global Health Management
(Chair Aurelie Aurilla Arntzen Bechina)

Optimizing Health Systems in War-Affected Countries: Technology, Design, and Innovation in Post-Conflict Reconstruction

Yara Asi and Cynthia Williams

BETWEEN
13:00 - 14:00**Room 208** Big Data - Technologies, Analytics and Strategies I/IV
(Chair Bhuvan Unhelkar)

Evaluation of Hadoop's Efficiency through the Manipulation of Live Data

Hemalatha Panneerselvam and Radmila Juric

Human Capital Capacity and Capability for Big Data, Keith Sherringham and Bhuvan Unhelkar

Service Management in Big Data, Keith Sherringham and Bhuvan Unhelkar

BETWEEN
14:00 - 15:00**Room 208** Big Data - Technologies, Analytics and Strategies II/IV
(Chair Bhuvan Unhelkar)

Influence of Business Context on The Role of Granularity in Big Data Analytics

Anurag Agarwal and Bhuvan Unhelkar

Comparative Study of Application of Structured and Object-Oriented Design Concepts to NoSQL Databases in The Big Data Age, Sunita Lodwig and Bhuvan Unhelkar

A Study in Incorporating Core Elements of Big Data in Educational and Training Courses

Lila Rajabion, Bhuvan Unhelkar and Anurag Agarwal

BETWEEN
15:00 - 16:00**Room 205** Advances in Human Centered Computing, Software Engineering and Soft Computing I/III (Chair Serkan Guldal)

Finding Maximum Independent Set by Sorting: A Stem Exercise

Serkan Guldal and Murat M. Tanik

Software Applications Built Upon SWRL Enabled OWL Ontologies

Eiman Almami, Radmila Juric and Mohammed Z. Ahmed

Pattern of Nature: Tic Tac Toe, Serkan Guldal, Nathan Bouldin and Gregory Myers

Room 206 Smart Cities (Chair Mohammed R. Haider)

Cyclist Collision Prevention System For In-Car Deployment

Colm O'Faolain, Matheus Souza, Rudi Verago and Robert Shorten

Searching Empty Parking Spots: A Stem Platform for Engineering Hardware and Software

Sazia Eliza, Anthony Winchester, Mohammad R. Haider, Serkan Guldal and Murat M. Tanik

A Review on Users Information Security Behavior Patterns of Smart Mobile Phone Abstract

Xiaojuan Zhang and Hui Yang

Room 207 Advances in STEM Education for Academicians I/II (Chair Michael Lipscomb)

The Development and Evaluation of a Nursing One-Minute Preceptor Program in Taiwan

Ling Fu Shaw, Chen-Tzu Chi, Shin-Huey Wung, Shu-Fen Chen and Min-Hua Wang

Engineering Lab in a Box: Embedding Design into Standard Science Classes

Michael Lipscomb and Karthikeyan Lingasubramanian

A Framework for Collaborative Knowledge Management: Using Distributed Mentoring

Ramaraju Rudraraju and Murat Tanik

Room 208 Big Data - Technologies, Analytics and Strategies III/IV
(Chair Bhuvan Unhelkar)

Development of A Framework for Strategic Approach to Big Data Adoption - BDFAB V2.2

Bhuvan Unhelkar

Asking Smart Questions About Your Big Data Joseph Desire Fotso, Hemalatha Panneerselvam and Radmila Juric

Tool Comparison of Semantic Parsers Robert Hinh and Julia Rayz

BETWEEN 16:00 – 17:00

MONDAY, DECEMBER 5

Room 205 Advances in Human Centered Computing, Software Engineering and Soft Computing II/III
(Chair Ali Hikmet Dogru)

Semantic Ontology Evolution in Consensus Reaching

Chien-Yi Hsiang and Julia Rayz

Enhancing XCOSEML with Connector Variability for Component Oriented Development

Anil Cetinkaya, Muhammed Cagri Kaya and Ali Hikmet Dogru

The Impact of Software Quality Models in Health Software: An Initial Assessment

Elisabetta Ronchieri and Marco Canaparo

Room 206 Advances in Human Centered Computing, Software Engineering and Soft Computing III/III
(Chair Radmila Juric)

Fine-Tuning Convolutional Nets for Image Recognition

Tad Gonsalves and Takafumi Okuyama

Could Semantic Web Technologies Create New Computational Models outside Semantic Web

Radmila Juric

Room 207 Advances in STEM Education for Academicians II/II (Chair Serkan Guldal)

Relationship Between N-Queens Problem and Magic Squares: A Stem Exercise

Serkan Guldal and Murat M. Tanik

Computational Thinking and Child Performance in a Preschool

Gustavo Caetano, Fuad Sobrinho and Oscar Pacheco

Room 208 Big Data - Technologies, Analytics and Strategies II/IV
(Chair Bhuvan Unhelkar)

The Big Data Manifesto: Basis for Strategic Adoption of Big Data in Industry

Bhuvan Unhelkar and Anurag Agarwal

Room 208 Health Enterprise, Social Media and Collaborative Research
(Chair Bhuvan Unhelkar)

A 'Structured' Phenomenological Approach to Informing Young Adult and Adolescent Male Health Education and Behavioral Intervention Design

Michael Rovito and Kenyatta Rivers

Context – A Critical Principle in Engineering Resilient Solutions For Healthcare, Energy And Beyond

Darrell Fielder, Murat Tanik, U. John Tanik, Cristiane Gattaz and Fuad Sobrinho



You can
keep track
of changes
in the schedule
by your cellphone !

SDPS 2016 - ORLANDO

	December 4	December 5	December 6	
7		Breakfast Served	Breakfast Served	7
8	Arrival	Dr. Stephen J. Schueler	Dr. Irene Dankwa-Mullen	8
		Dr. J. Iwan Alexander	Dr. Del Tesar	
9		Dr. Ibrahim Esat	Dr. Sy-Ming Guu	9
		Dr. Raymond Yeh	Dr. Victor Raskin	
10		Dr. Deborah German	Dr. Waldemar Karwowski	10
11	Registration	Dr. Bhavani Thuraisingham	Mark A. Froehlich	11
		Dr. Vistap Karbhari	Dr. Myron Fottler	
12	Conference Lunch Break	Conference Lunch Break	Conference Lunch Break	12
13	Dr. Ram Inaugural speech	Workshop session (x3)	Paper Session	Tutorial
14	Workshop session (x3)	Workshop session (x4)	Paper Session	
15	Paper Sessions (x4)	Poster Sessions	Paper Sessions (x4)	Barbara J. Huelat
16	Paper Sessions (x4)		Paper Sessions (x4)	Dr. Maqbool Patel
17				17
18	Sunday Reception			18
19	Speakers: Dr. Thomas Wan, Dr. Greg Welch, Dr. Thomas O'Neal, Dr. Lee Moradi, Dr. Murat M. Tanik, Dr. A. Douglas Stone	SDPS meeting for 2017	Dinner Speeches and Awards Speakers: Randolph Berridge, Dr. Richard Anderson, Dr. Frank Wilczek, Dr. Oscar Garcia	19
20				20
21				21

