1st International Conference on Smart Tourism, Smart Cities and Enabling Technology
(The Smart Conference)
May 1-4, 2019, Orlando, Florida, USA

WEDNESDAY - MAY 1, 2019

TIME		ACTIVITY		
12:30	13:00	**Welcome speech (Disney Dining Room)**		
		Prof. Youcheng Wang, Ph.D., Dean of UCF Rosen College of Hospitality Management; Virtual welcome from the Honorable Mayor Buddy Dyer, Mayor of City of Orlando		
13:00	14:00	**Keynote speech-1 (Disney Dining Room)**		
		Prof. Satish Ukkusuri, Ph.D., Lyles School of Civil Engineering, Director of the Urban Mobility, Networks and Intelligence Lab, Purdue University, Title of speech: Smart Mobility Analytics in an Era of Accelerated Technological Change		
14:00	14:30	Refreshment Break		
14:30	15:50	**Thematic Session-1 (Disney Dining Room)**		
		THEME: Smart Transportation Systems		
		Modarator: Dr. Mohamed Abdel Aty, UCF **Presenter 1.** Professor Kaan Ozbay, Ph.D.,Tandon School of Engineering Title: Data-driven Transportation Incident/Emergency Planning and Operations in the Age of Smart and Connected Cities (Invited speech) **Presenter 2.** Jeremy Dilmore , Florida Department of Transportation Title: Florida Connected and Autonomous Vehicle Efforts (Invited speech) **Presenter 3.** Samiul Hasan, Ph.D., Asst Prof. UCF Title: Applications of Deep Learning Techniques for Smart Traffic Management and Operations **Presenter 4.** Lisingsha Yue (Yueli), Ph.D. student, UCF Title: Safety Benefits of Advanced Driver Assistant Systems and Intelligent Transportation Systems in Future Smart City **Presenter 5.** Jinghui Yuan, Ph.D. candidate, UCF Title: Arterial-Level Real-Time Crash Risk Prediction Using Deep Learning		
16:00	17:00	**Panel discussion-1 (RCHM 111)**	**Panel discussion-2 (Disney Dining Room)**	
		IBM Panel Topic: Governments putting smart to work for innovative transformation, citizen engagement and social impact.	Topic: Smart Tourism	
		Panel Moderator and Panelist 1: Brigitte Sollie, North America Government and Higher Education Industry Advocate focused on Cloud, Watson/AI, and Security, IBM. **Panelist 2:** Beth F. Tracy, IBM Corporate Citizenship Territory Manager. **Panelist 3:** Amy Freeman, IBM Lead Technical Advisor focusing on Government and Higher Education.	**Moderator:** Dr. Tingting Zhang, Assistant Professor, Rosen College of Hospitality Management, UCF **Panelist 1.** Professor Daniel R. Fesenmaier, Ph.D., Director, National Laboratory for Tourism & eCommerce (NLTeC) and adjunct professor, Modul University Vienna **Panelist 2.** Professor Dimitrios Buhalis, Ph.D., Director of the eTourism Lab and Deputy Director of the International Centre for Tourism and Hospitality Research, Bournemouth University, UK **Panelist 3.** Dr. Timothy Jung, Ph.D., Founder and Director of the Creative AR & VR Hub and Head of MMU AR & VR Research Group at Manchester Metropolitan University, UK **Panelist 4.** Dr. Ahmet Ozturk, Associate Professor, Rosen College of Hospitality Management, UCF **Panelist 5.** Dr. Arthur Huang, Assistant Professor, Rosen College of Hospitality Management, UCF	REGISTRATION
17:00	19:00	Beer & Wine Social (Disney Dining Room)		

		THURSDAY - MAY 2, 2019
		ACTIVITY
7:30	8:30	BREAKFAST AT ROSEN COLLEGE (Disney Dining Room)
8:30	9:30	**Keynote speech-2 (Disney Dining Room)**
		Dr. Sajal Das, Professor of Computer Science and Daniel St. Clair Endowed Chair at Missouri University of Science and Technology, Title: Designing Sustainable Smart and Connected Communities
9:30	10:00	**Refreshment Break+Poster Session 1 (Rosen Courtyard)**
		1. "Smart Operations of Municipal Utility Parks – A Water, Energy, Waste Nexus Approach" Qipeng Zheng, Mengnan Chen and Ni-Bin Chang 2. "Inclusive Security is Better Security" Da Kim and Paul Gazzillo 3. "Predicting Potential Road Conflicts by Smartphone Sensor Data Fusion" Jiheng Huang, Shaurya Agarwal and Mohamed Abdel-Aty 4. "Developing a Pedestrian Behavioral Mobility Model for Urban Facilities" Saumya Gupta and Mohamed Zaki 5. "Adaptive Visual Tracking and Acquisition for VLC" Pooya Nabavi and Murat Yuksel 6. "Wearable multifunctional sensors based on a composite film" Pawan Pathak, Sanghoon Park and Hyoung J. Cho 7. "Are running digital tools helpful? Exploring the moderating effect on involvement and commitment" Shiheng Zeng and Qiuju Luo 8. "Organizational Integration, Citizen Communication and Equity in Service Restoration after Catastrophic Storms" Richard Feiock, Eren Ozguven, Tian Tang and Kewei Xu 9. "Equipping Smart Cities with a Full Version of Computer Vision-based Structural Health Monitoring" Chuanzhi Dong and Necati Catbas 10. "Tourism Spatial Attraction Analysis of Acient Town Based on the Comparison of Spatial Syntax and Tourists Track Measurement" Lin Zhang and Jiaqi Zhang 11. "Factors Affecting Users' Acceptance of Peer-to-Peer (P2P) Mobile Apps in the Tourism Industry" Marcos Medeiros, Ahmet Ozturk and Jeffrey Weinland☐ 12. "The Relationship Between Innovative Human Capital Management and Self-Service Technologies in the Hospitality Industry" Jessica Vieira de Souza Meira and Sara Joana Gadotti dos Anjos

10:00	11:20	**Thematic Session-2 (Disney Dining Room)** / **Thematic Session-3 (RCHM 111)**

Thematic Session-2 (Disney Dining Room)	**Thematic Session-3 (RCHM 111)**
THEME: Using Big Data to Catalyze Innovation and Economic Prosperity in Smart Cities Fireside chat with Siemens.	THEME: Emerging Issues in Cyber Security and Privacy
Moderator: Dr. Ivan Garibay (Assistant Professor, UCF) **Panelist 1.** Peter Torrellas, Head of Smart Cities and Communities at Siemens **Panelist 2.** Seyyedmilad Talebzadehhosseini: An Agent Based Simulation Model for Developing and Sustaining Green Urban Growth. **Panelist 3.** Madeline Schiappa: Cyber Security in a Complex Community: A Social Media Analysis of Common Vulnerabilities and Exposures **Panelist 4.** Brett Belcher: Scalable Deep Learned User Authentication via Keystroke Dynamics **Panelist 5.** Rehab Ali: A Conceptual Model for the Implications of Blockchain Technology on the Entrepreneurial Ecosystem	**Moderator:** Yan Solihin (Director of Cyber and Privacy cluster, Professor CS, UCF) **Panelist 1.** Aziz Mohaisen, Title: Practical Adversarial Machine Learning Attacks on IoT Malware Detection; (Invited speech). **Panelist 2.** Paul Gazzillo, Title: Security Challenges for Highly-Configurable Software; (Invited speech) **Panelist 3.** Amro Awad, Title: Rethinking Secure Processor Design for Persistent Memories; (Invited speech) **Panelist 4.** Andrea Mondelli, Title: Paul Gazzillo and Yan Solihin, Performance Considerations when Protecting Smart-City Devices from Side Channel Attacks **Panelist 5.** Da Kim and Paul Gazzillo, Title: Inclusive Security is Better Security

11:20	12:30	LUNCH (Disney Dining Room)
12:00	12:30	Dr. Cihan Cobanoglu Think Tank Report (Disney Dining Room)
12:30	13:30	**Keynote Speech-3 (Disney Dining Room)**
		Professor Dimitrios Buhalis, Ph.D., Director of the eTourism Lab and Deputy Director of the International Centre for Tourism and Hospitality Research, Bournemouth University, UK. Title of speech: Smart Tourism and the Re-engineering of the Tourism Industry

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		THURSDAY - MAY 2, 2019 (CONTINUED)
		ACTIVITY
13:30	14:00	**Refreshment Break+Poster Session-2 (Rosen Courtyard)**

1. "How can smart technology help tourism destinations cope with Overtourism? The case of Big Sur, California" Roberta Atzori, Angel Gonzalez and John Avella
2. "The effect of online reviews on sales in the SMART environment: A moderating role of global airline alliances" Minwoo Lee, Faizan Ali and Semsettin Yuksek
3. "New technologies in tourism and hospitality research: Applying psychophysiological methods for measuring visitor experience" Maksim Godovykh and Asli Tasci
4. "Examining the Effect of Experience Sequence on Tourism Experience Evaluation" Wen Zhang and Mathilda van Niekerk
5. "Genuine Sharing Economy: Considering Blockchain as a Future Competitor" Niloufar Sedarati, Aarash Baktash and Pooyan Sedarati
6. "Enhancing Tourism Experience with Augmented Reality Technologies: Comparing Virtual Experience with Traditional Exhibitions in Museum" Wen Zhang and Mathilda Van Niekerk
7. "Reconceptualising Smart Tourism" Abbie-Gayle Johnson and Jillian Rickly
8. "Golden Years in Retirement Communities: Mining Residents and Family Member's Sentiments Using Facebook Review" Yunying Zhong and Tingting Zhang
9. "Sentiment Analysis of Twitter data of #hashtag to predict public opinion on healthy eating in healthy vs unhealthy states" Valeriya Shapoval, Tingting Zang and Wutao Wei

14:00	15:20	**Keynote Speaker-4 (Disney Dining Room)**

Professor Daniel R. Fesenmaier, Ph.D., Director, National Laboratory for Tourism & eCommerce (NLTeC) and adjunct professor, Modul University Vienna, Title of speech: Designing Smart Tourism for the Future

15:20	15:30	Refreshment Break
15:30	**16:30**	**Concurrent Session-1**

Smart Tourism-1 (RCHM 206)	Smart Tourism-2 (RCHM 208)	Analytics (RCHM 210)	Computer Technology (RCHM 212)
Moderator: Dr. Catherine Cheung **Presentation 1** ."Smart Tourism Design: A new approach for Smart Destinations" Larissa Neuburger and Lori Pennington-Gray **Presentation 2.** "Constructing the framework of Smart Destinations" Ekaterina Sorokina and Youcheng Wang **Presentation 3**. "The Role of Smart People in the Compelling Smart(er) Destinations" Aarash Baktash, Pooyan Sedarati and Niloufar Sedarati	**Moderator:** Dr. Wei Wei **Presentation 1** "Socio Economic and Trip Specific Characteristics of Tourist Visiting Oman" Nusair, Alfarhan, Al-Azri and Al-Muharrami **Presentation 2.** "Research on the Tourist Experiences in Theme park of China based on Web-based Text Analysis" Mu Zhang and Ke Zhang **Presentation 3.** "A methodology for the interoperability of technological platforms for smart territories" Jacques Bulchand-Gidumal and Rafael Pérez-Jiménez	**Moderator:** Dr. Ivan Garibay **Presenation 1** "A network model of neighborhoods' happiness: A big data perspective" Arthur Huang **Presentation 2.** "Pedestrian safety in Florida: a comparative analysis of residents and visitors" Jaeyoung Lee, Mohamed Abdel-Aty and Whoibin Chung	**Moderator:** Dr. Paul Gazzillo **Presentation 1** ."Smart Infrastructure Assessment using Mixed Reality and Artificial Intelligence" Enes Karaaslan, Ulas Bagci and Necati Catbas **Presentation 2.** "Inferring travel demand from partially observed data to address the mismatch between demand and supply of taxis in the presence of rain" Seyyedyousef Oleyaeimotlagh and Adan Ernesto Vela

16:40	17:40	**Panel discussion-3 (RCHM 110)** / **Panel discussion-4 (RCHM 111)**

Panel discussion-3 (RCHM 110)	Panel discussion-4 (RCHM 111)
Topic: Using Big Data Analytics to Create Better Guest Experiences	Topic: Cybersecurity
Moderator: Ivan Garibay (UCF) **Panelist 1.** Anthony Norrow, Universal Project Manager, New Construction **Panelist 2.** Joe Canamo. Senior Manager - Business Analytics & Industrial Engineering **Panelist 3.** Diala Gammoh, Manager - Revenue Management and Data Science **Panelist 4.** Jeffery Baker, Director of Analytics	**Moderator:** Cihan Cobanoglu (USF) **Panelist 1.** Yan Solihin, Director of Cyber and Privacy cluster, UCF. **Panelist 2.** Bill Newhouse, Deputy Director of NICE **Panelist 3.** Jeff Finke, Principal Information Systems Engineer for MITRE **Panelist 4.** Mark Vincent, experienced hospitality information technician

17:40	18:30	Refreshment Break (Prepare for Gala dinner)
18:30	20:30	GALA DINNER (Disney Dining Room)

		FRIDAY-MAY 3, 2019
		ACTIVITY
7:30	8:30	BREAKFAST AT ROSEN COLLEGE (Disney Dining Room)
8:30	9:30	**Keynote speech-5 (Disney Dining Room)**
		Mr. Gary Daniels, Vice President, Digital Experiences, Walt Disney Parks and Resorts, Title of Speech: Innovating with Purpose to Transform Experiences
9:30	10:00	**Refreshment Break+Poster Session 3 (Rosen Countyard)**
		1. "Rate/Magnitude-limited Optimal Control Design with Application to Microgrid Curtailment Mitigation" Roland Harvey, Zhihua Qu and Toru Namerikawa 2. "Impacts of Integrating Topology Reconfiguration and Vehicle-to-Grid Technologies on Distribution System Operation" Zhaomiao Guo 3. "Smart Power Control Devices - Gapless Ferromagnetic Core Variable Reactor" Subash Pokharel and Aleksandar Dimitrovski 4. "Coordinated Voltage Regulator Control in Systems with High-level Penetration of Distributed Energy Resources" Shahrzad Mahdavi and Aleksandar Dimitrovski 5. "Modeling of Inverter-based Sources Under Fault Conditions" Md Arifin Arif and Aleksandar Dimitrovski 6. "Impact Studies and Cooperative Voltage Control for High PV Penetration" Michael Rathbun, Ying Xu, Reza Roofegari Nejad, Zhihua Qu and Wei Sun 7. "The Role of Electric Vehicles for Frequency Regulation During Grid Restoration" Towfiq Rahman and Zhihua Qu 8. "Restoration using Distributed Energy Resources for Resilient Power Distribution Networks" Ranadhir Sarkar and Zhihua Qu 9. "The Influence of Hotel's Green Practices on Purchasing Intentions: The Case of Chatbots" Jonilda Bahja, Frida Bahja, Ahmet Ozturk and Fevzi Okumus 10. "Gratifications of Tourists' Self-Presentation on Social Networking Sites" Melissa Farboudi Jahromi and Youcheng Wang 11. "Profiling 'Instagrammable' Sites at Festivals: How Festivals and Destinations can Leverage Instagram" Juhee Kang and Jeeyeon Hahm 12. "The Moderating Effect of Operator Type: The Impact of IT Expenditures on Hotels' Operating Performance" Nan Hua, Arthur Huang and Marcos Medeiros
10:00	11:20	**Thematic Session-4 (Disney Dining Room)**
		THEME: Smart systems integration: industrial and system engineering perspectives
		Moderator: Waldemar Karwowski (chair of IEMS, Professor IEMS, UCF) **Presenter 1.** Dylan Schmorrow, Soartech, Inc. , Title: Human-Computer Symbiosis: Developing Tomorrow's Smart Systems Using Cognitive Architectures and Reaching Beyond Deep Learning; (Invited speech) **Presenter 2.** Qipeng Zheng, UCF, Title: Smart Operations of Municipal Utility Parks – A Water, Energy, Waste Nexus Approach **Presenter 3.** Luis Rabelo, UCF, Title: Using a Hybrid Model of System Dynamics and Agent-based Simulation in Order to Predict the Demand of Vehicles in a Megacity **Presenter 4.** Vladimir Boginski, UCF, Title: Robustness and Vulnerability of Interdependent Infrastructure Networks **Presenter 5.** Ben Sawyer, UCF, Title: Autonomy-Brain Exchange: Toward Neuroergonomic Integration of Human and Machine
11:20	12:30	AWARDS LUNCHEON (Disney Dining Room)
12:30	12:40	Refreshment Break
12:40	13:40	**Concurrent Session-2**

Smart Hospitality (RCHM 206)	**Smart Tourism-3 (RCHM 208)**	**E&C Miscellany (RCHM 210)**
Moderator: Yunying(Susan) Zhong **Presentation 1.** "What Stage is the Smart Hotel Room Technology Adoption among Hong Kong hotels?" C. Cheung & A. Lo **Presentation 2.** "Technology post-adoptive behaviors and gender among hotel branded mobile app users" Liza Cobos, Kevin Murphy, Ahmet Ozturk, Amy Gregory, Kimberly Severt & Murat Hancer **Presentation 3.** "What motives the hosts to participate in sharing accommodation and how do these motivations affect their attitudes and behaviors" Huimin Gu, Wei Huang & Xiaoxiao Song	**Moderator:** Valeriya Shapoval **Presentation 1.** "Virtual Reality in Destination Marketing: the Effects of Social Presence and Telepresence" Tianyu Ying, Jingyi Tang, Wei Wei, Shun Ye and Wei Zhou **Presentation 2.** "Antecedents of Augmented Reality (AR) Applications Usage/Reusage at a Destination" Faizan Ali, Yuan Zhou, Laiba Ali and Semsettin Yuksek	**Moderator:** Dr. Katalmis Akpinar **Presentation 1.** "Performance Considerations when Protecting Smart-City Devices from Side Channel Attacks" Andrea Mondelli, Paul Gazzillo and Yan Solihin **Presentation 2.** "Enabling Bidirectional Traveler Healthcare Utilizing Medical Expertise Pooling Paradigm" Sakura Sikander, Christian Gonzalez, Pradipta Biswas, Nazanin Rahnavard and Sang-Eun Song **Presentation 3.** "A Compact Spherical Quasi-Optical Multipass Cell for Terahertz Trace Molecular Sensing" Sreeram Sundaresh and M. Mahdi Assefzadeh

13:40	14:00	Refreshment Break

		FRIDAY-MAY 3, 2019 (CONTINUED)
		ACTIVITY
14:00	15:00	**Keynote speech-6 (Disney Dining Room)**
		Dr. Timothy Jung, Founder and Director of the Creative AR & VR Hub and Head of MMU AR & VR Research Group at Manchester Metropolitan University, UK.
		Title of speech: Augmented Reality and Virtual Reality for Smart Tourism Experience
15:00	15:30	Refreshment Break
15:30	16:30	Thematic Session-5 (Disney Dining Room)
		THEME: Energy Technologies for Smart Communities
		Moderator: Zhihua Qu (chair of ECE, UCF) & Aleksandar Dimitrovski (Associate Professor of ECE) **Presenter 1.** Thomas J. King, Jr., Director of Sustainable Electricity Program at Oak Ridge National Laboratory Title: Transforming our Communities through Innovation; (Invited speech) **Presenter 2.** Dr. Hong Wang, Oak Ridge National Laboratory, formerly Laboratory Fellow and Chief Scientist at Pacific Northwest National Laboratory Title: Collaborative Fault Tolerant Control for Complex Systems - An Example of Non-signalized Intersection with CAVs; (Invited speech) **Presenter 3.** Ben Prochazka, Vice President, Electrification Coalition Title: Drive Electric Orlando: A Public/Private Partnership to Steer Tourists Into Electric Vehicles (Invited speech) **Presenter 4.** Dr. Rakan Chabaan, Senior Research Engineer at Hyundai America Technical Center Title: Laboratory Performance and Safety Test Results of 7.0 kW WPT System; (Invited speech) **Presenter 5.** Michael Hess, Smart City Project Director, City of Orlando Title: Pena Station NEXT Case Study (Invited speech)
16:30	17:30	**Public Sector Panel discussion 5.1 (Disney Dining Room)**
		THEME: Urbanization and Smart Cities
		Moderator: Anil Kumar, Managing Director, Matrix **Panelist 1.** Chris Castro, Director of Sustainability & Resilience - City of Orlando **Panelist 2**. Mike Hess, Smart City Project Director - City of Orlando **Panelist 3.** Alison Barlow, City of St. Petersburg, Executive Director - St. Pete Innovation District **Panelist 4.** Barbara Jenkins, Superintendent - Orange County Public Schools **Panelist 5.** Gregory C. Curtin, PhD, JD, Senior Fellow at the World Economic Forum (WEF), Charter Member of WEF's Global Agenda Council **Panelist 6.** Jeremy Gilmore; District Five Transportation Systems Management and Operations Program Administrator, Florida Department of Transportation (FDOT) **Panelist 7.** Henry Reyes, Managing Director, JPMorgan Chase & Co. **Panelist 8.** Craig Ustler, President – Creative Village Orlando, LLC
17:30	18:30	**Private Sector Panel Discussion 5.2 (Disney Dining Room)**
		THEME: Urbanization and Smart Cities
		Moderator: Anil Kumar, Managing Director, Matrix **Panelist 1**.Simon Hakim, Digital Government Director – Microsoft **Panelist 2.** Jim Haskins, Smarter Communities Business Development Leader – Cisco **Panelist 3.** Denise Quarles, Chief City Executive – Siemens **Panelist 4**. KJ Chugh, IoT and Smart Cities Practice Leader – Nokia **Panelist 5**. Max Green, VP Sales and Customer Experience – Harris Corporation **Panelist 6.** Kevin Conway, Senior Principal Architect -CenturyLink **Panelist 7.** Dave Mulholland; Transportation Managing Director - VHB **Panelist 8.** Juan Santos, Senior Vice President of Brand Experience – Tavistock **Panelist 9.** Charles Adams, Former Senior Exec of Walt Disney World, Trammell Crow, Council Member, Urban Land Institute
18:30	19:30	**Closing remarks: Prof. Michael Georgiopoulos, Dean of UCF College of Engineering and Computer Science (Disney Dining Room)**
		Beer & Wine Social (Disney Dining Room)
		Saturday - May 4: Optional field trip - on your own with recommended attractions