Tuesday, November 3, 2015

8:00 AM	5:00 PM	**Registration**	Mediterranean Foyer
8:00 AM	9:00 AM	**Continental Breakfast**	Mediterranean Foyer
9:00 a.m.	10:00 a.m.	**Opening Announcements and Plenary**	Riviera/Granada

Iveta Mrázová, PhD
Associate Professor and Head of Department
Theoretical Computer Science and Mathematical Logic
Charles University, Czech Republic

Title: Deep Neural Networks and Their Role in the Quest for Human-Like Brain Power

10:00 AM	10:30 AM	**Morning Break**	Mediterranean Foyer
10:30 AM	12:00 PM	**Concurrent Technical Sessions**	

Cyber Physical Systems: **Cyber Security** Session Chair: Douglas A. Bodner (Georgia Institute of Technology, USA) Room: Riviera/Granada	**Data Science & Analytics:** **Social Network Data & Collective Analytics** Session Chair: Iveta Mrázová (Charles University, Czech Republic) Room: Monte Carlo
221 - Using Discrete Event Simulation to Model Attacker Interactions with Cyber and Physical Security Systems | Casey Perkins, George Muller (Pacific Northwest National Laboratory, USA)	52 - Czech Insolvency Proceedings Data: Social Network Analysis | Iveta Mrázová; Peter Zvirinský (Charles University, Czech Republic)
227 - Cyber Security Challenges within the Connected Home Ecosystem Futures | Abdullahi Arabo (University of West England, United Kingdom)	361 - An Improved Continuous-Action Extended Classifier Systems for Function Approximation | Omid Saremi, Masoud Shariat Panahi (University of Tehran, Iran); Amin Sabzehzar (University of Nevada, Reno, USA)
261 - A Systemic Approach to Re-inforce Development and Operations Functions in Delivering an Organizational Program | Syed W. Hussaini (Tata Consultancy Services, India)	60 - Dynamics of the Schelling Social Segregation Model in Networks | Vasco Cortez, Sergio Rica (Universidad Adolfo Ibáñez, Chile)
233 - Mitigating Counterfeit Part Intrusions with Enterprise Simulation | Douglas A. Bodner (Georgia Institute of Technology, USA)	46 - Using Data Mining Algorithms for Developing a Model for Intrusion Detection System (IDS) | Solane Duque; Mohd Nizam bin Omar (University Utara Malaysia, Oman)

12:00 PM	1:30 PM	**Luncheon & Afternoon Plenary**	Castillian

Sajal K. Das, PhD
IEEE Fellow
Chair of Computer Science Department
Daniel St. Clair Endowed Chair in Computer Science
Missouri University of Science and Technology, USA

Title: Beyond Cyber-Physical Era: What's Next?

1:30 PM	3:00 PM	**Concurrent Technical Sessions**	

Cyber Physical Systems: **Systems Modeling & Design I** Session Chair: Chris Orlowski (George Washington University, USA) Room: Riviera/Granada	**Intelligent & Adaptive Systems:** **Machine Learning** Session Chair: Claude Turner (Norfolk State University, USA) Room: Monte Carlo
267 - Towards an Adaptive Model for Collaborative Simulation: From System Design to Lessons Learned. A Use Case from Aircraft Industry | Laura Roa Castro (IRT SystemX, France); Julie Stal-Le Cardinal (Centrale-Supélec, France); Martine Callot (Airbus Group Innovations, France)	395 - Determination of Rule Patterns in Complex Event Processing Using Machine Learning Techniques | Nijat Mehdiyev, Julian Krumeich, Dirk Werth, Peter Loos (German Research Center for Artificial Intelligence, Germany); David Enke (Missouri University of Science and Technology, USA)
287 - Using a Systemic Perspective to Support Engineering Change Management | Julian Wilberg, Fatos Elezi, Udo Lindemann (Technische Universität München, Germany); Iris D. Tommelein (University of California, Berkeley, USA)	402 - A Normalization Process to Standardize Handwriting Data Collected from Multiple Resources for Recognition | Wen-Li Wang (Penn State Erie, The Behrend College, USA); Mei-Huei Tang (Gannon University, USA)
281 - How System Errors Affect Aircrew Resource Management (CRM) | Justin Y. Adkins; Kevin MacG. Adams (University of Maryland University College, USA); Patrick T. Hester (Old Dominion University, USA)	416 - A Wavelet Packet and Mel-Frequency Cepstral Coefficients-Based Feature Extraction Method for Speaker Identification | Claude Turner (Norfolk State University, USA); Anthony Joseph (Pace University, USA)
293 - A Framework for Implementing Systems Engineering Leading Indicators for Technical Reviews and Audits | Chris Orlowski, Paul Blessner, Timothy Blackburn, Bill Olson (George Washington University, USA)	410 - Transformation Based Score Fusion Algorithm for Multi-Modal Biometric User Authentication through Ensemble Classification | Firas S. Assaad, Gursel Serpen (University of Toledo, USA)

3:00 PM	3:30 PM	**Afternoon Break**	Mediterranean Foyer
3:30 PM	5:00 PM	**Concurrent Technical Sessions**	

Cyber Physical Systems: **Systems Modeling & Design II** Session Chair: Ronald E. Giachetti (Naval Postgraduate School, USA) Room: Riviera/Granada	**Intelligent & Adaptive Systems:** **Adaptive Control** Session Chair: Nuri Yilmazer (Texas A&M University - Kingsville, USA) Room: Monte Carlo
274 - Towards Modelling Data Infrastructures in the Asset Management Domain | Paul Brous, Paulien Herder, Marijn Janssen (Delft University of Technology, The Netherlands)	492 - An Improved eXtended Classifier System for the Real-time-input Real-time-output (XCSRR) Stability Control of a Biped Robot | A. Sabzehzar, W.L. Shan (University of Nevada, Reno, USA); M. Shariat Panahi, O. Saremi (University of Tehran, Iran)
240 - Application of System Design for Operational Effectiveness for Architectural Modeling of the SoS Relationship Between Primary and Enabling Systems | Marilyn T. Gaska, Joseph S. Bobinis, Vincent Galluzzo (Lockheed Martin, USA)	500 - μAutonomy: Intelligent Command of Movable Objects | Abdoulaye Saadou-Yaye, Julio Aráuz (Ohio University, USA)
246 - An Agent Based Approach for Simulating DEMO Enterprise Models | Mamadou Seck (Old Dominion University, USA); Joseph Barjis (Institute of Engineering and Management, The Netherlands);	507 - Real-Time Optimal Scheduling of a Group of Elevators in a Multi-Story Robotic Fully-Automated Parking Structure | Jayanta K. Debnath, Gursel Serpen (University of Toledo, USA)
254 - Evaluation of the DoDAF Meta-Model's Support of Systems Engineering | Ronald E. Giachetti (Naval Postgraduate School, USA)	436 - Application of Object Detection and Tracking Techniques for Unmanned Aerial Vehicles | Shreyamsh Kamate, Nuri Yilmazer (Texas A&M University - Kingsville, USA)

6:30 PM	7:00 PM	**Cash Bar**	Mediterranean Foyer
		Best Paper Awards Banquet and Plenary	Castillian

Robert R. Hoffman, Ph.D

7:00 PM	9:30 PM	Senior Research Scientist Institute for Human and Machine Cognition, USA	

Title: Challenges for a Theory of Complex Cognitive Work Systems