Wednesday, November 5, 2014

8:00 am - 5:00 pm  Registration Desk Open - Prefunction Foyer
8:00 am  Continental Breakfast - Prefunction Foyer
9:00 am  Opening Announcements and Plenary – Adams Room

9:00 am  Dave Welch
Senior Standards Manager
Microsoft Corporation, USA
Title: Conquering Complexity in the New World of Smart Cities

10:00 am  Internet of Things - Prefunction Foyer

10:30 am  Concurrent Technical Sessions

Session 19
Room: Adams
System of Systems: Complex Analytics
Session Chair: Fred Highland
Lockheed Martin, USA

110:54 Benefits from Complex Systems Research [Varnell Belfast]; The University of Adelaide, Australia
119:Modeling Complexity in Multi-modal Adaptive Survey Systems [Fred Highland]; Lockheed Martin, USA
121:Challenges of Governance in Complex Adaptive Systems: A Case Study of U.S. Public Education [Stelio Micolai, Robert Edison; Analytic Services inc, USA]
140:Applying Advanced 21st Century Systems Engineering and Integration (SEI) Methods to Address and Manage Risks Within a CAS Environment [Gennaro A. Avento; Lockheed Martin, USA]

Session 20
Hamilton
Intelligent and Adaptive Systems: Machine Learning
Session Chair: Michael B. Richman
University of Oklahoma, USA

109:A New Scheme for Daily Peak Wind Prediction Using Machine Learning [Andrew Mencer, Jamie Dyer; Mississippi State University, USA]
109:A Machine Learning Framework for Predicting Purchases by Online Customers Based on Dynamic Pricing [Rajan Gupta, University of Delhi; India Chauhan Pathak; Ask-me-Abou Chott MarketPlace, India]
106:A Fuzzy-Naive Based Weather Prediction System for Bangladesh [Tanjil Rahman, Abu L. Taqeer; North South University, Bangladesh]
102:Attribution and Prediction of Maximum Temperature Extremes in SE Australia [Michael B. Richman, Lance M. Lees; University of Oklahoma, USA]

Session 21
Adams
System of Systems: Emergent System Behavior Session Chair: TBA

104:Systems Thinking: An Analysis of Key Factors and Relationships [Divya Vohra Behl, Susan Ferrera; The University of Texas at Arlington, USA]
118:Verification Points for Self-Adaptive Systems [Brian Phillips; Mark Blackburn; Stevens Institute of Technology, USA]
204:Controlling Design Complexity with the Monterey Phoenix Approach [Kristin Giannamore; Mikhail Augustine; Monica Farah-Stephenson; Naval Postgraduate School, USA; W. Clifton Ballen; John Crayton; Stevens Institute of Technology, USA]
45A:Optimal Dynamic Optimization of a Hybrid Electrical System: Multi-Agent Approach [Abdul K. Mijidji; Mamadou L. Ndiaye; Faye A. Ndiaye; University of Osaka, Senegal; Mouminou Affoue; University Thies, Senegal]

Session 22
Jefferson A
Business and Financial Analytics
Session Chair: Anthony Joseph
Pace University, USA

227:The Treasury Bill Rate, the Great Recession, and Neural Networks Estimates of Real Business Sales [Anthony Joseph; Naveen Lakkara; Pace University, USA; Claude Turner; Bowie State University, USA]
301:Demand Forecasting Based on Pairwise Item Demand [Sakarya University, Turkey; Mounirou S. Diop; Sakarya University, Turkey]
309:Neural Network Modeling, Simulation and Prediction of Innovation Growth in United Arab Emirates [UAE] [Hamid Haq; Siemens Building Technologies, UAE; Anand Kumar; Bina Institute of Technology and Science, UAE; Ansar Ahmad; Siemens Building Technologies, UAE]

Session 23
Lunch & Afternoon Plenary – Franklin Room
Yew-Soon On, PhD
Director, Centre for Computational Intelligence
Director, SIMTECH-NTU Joint Lab on Complex Systems
Program Principal Investigator, Rolls-Royce@NTU Corporate Lab
Nanyang Technological University, Singapore
Title: The Emerging “Big Dimensionality”

1:30 pm  Concurrent Technical Sessions

Session 24
Adams
System of Systems: Emergent System Behavior Session Chair: TBA

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Session 25
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