20th IEEE Workshop on Dependable Parallel, Distributed and Network-Centric Systems (DPDNS 2015)

Advanced Program

FRIDAY, May 29th, 2015

Hyderabad International Convention Centre - Hyderabad, INDIA

10:15-10.30	**Workshop Welcome**
10:30-12:00	**Session 1: Reliability and Threat-Detection**
10:30	Sanem Arslan, Haluk Rahmi Topcuoglu, Mahmut Taylan Kandemir, and Oğuz Tosun. **Performance and Energy Efficient Asymmetrically Reliable Caches for Multicore Architectures**
11:00	Marc Eduard Frincu. **Distributed Scheduling Algorithm for Highly Available Component Based Applications**
11:30	Paul Wood, Saurabh Bagchi, and Alefiya Hussain. **Optimizing Defensive Investments in Energy-Based Cyber-Physical Systems**
12:00-13:30	**Lunch Break**
13:30-15:00	**Session 2: Fault Tolerance**
13:30	Nentawe Gurumdimma, Arshad Jhumka, Maria Liakata, Edward Chuah, and James Browne. **Towards Detecting Patterns in Failure Logs of Large-Scale Distributed Systems**
14:00	Salem Saker and Adnan Agbaria. **Communication Pattern-Based Distributed Snapshots in Large-Scale Systems**
14:30	Alessandro Pellegrini, Pierangelo Di Sanzo, and Dimiter R. Avresky. **A Machine Learning-Based Framework for Building Application Failure Prediction Models**
15:00-15:30	**Coffee Break**
15:30-17:00	**Session 3: Algorithms, Protocols and Topologies**
15:30	Théodore Jean Richard Relaza, Jacques Jorda, and Abdelaziz M'Zoughi.

Trapezoid Quorum Protocol Dedicated to Erasure Resilient Coding Based Schemes

16:00 Brendan Benshoof, Andrew Rosen, Anu G. Bourgeois, and Robert W. Harrison. **A Distributed Greedy Heuristic for Computing Voronoi Tessellations with Applications Towards Peer-to-Peer Networks**

16:30 Kaliappa Ravindran. **Dependability Modeling and Assessment of Complex Adaptive Networked Systems**

17:00-
17:10 Concluding Remarks