18th IEEE Workshop on Dependable Parallel, Distributed and Network-Centric Systems (DPDNS 2013) *Preliminary Program*

FRIDAY, May 24, 2013
Hyatt Regency Cambridge - Boston, Massachusetts USA

8:45am – 9:00am Opening Remarks

9:00am – 10:00am Keynote Speech

"CASCADE: Communities for Ad Hoc Networks"
Dr. Tim Strayer (BBN, Cambridge, MA, USA)

10:00am – 10:30am Coffee Break

10:30am – 12:00am Network Algorithms and Techniques

10:30am - "A Fault-Tolerant Strong Unstable Conjunctive Predicate Detection Algorithm for Large-Scale Networks", Min Shen and Ajay Kshemkalyani (University of Illinois at Chicago, USA).

11:00am - "Tolerating Packet Losses in Wireless Mesh Networks", Frank Engelhardt, Timo Lindhorst and Edgar Nett (OvG University Magdeburg, Germany).

11:30am - "Reducing the Migration Times of Multiple VMs on WANs using a Feedback Controller", Tae Seung Kang, Mauricio Tsugawa, José Fortes (University of Florida, USA) and Takahiro Hirofuchi (National Institute of Advanced Industrial Science and Technology, Japan).

12:00am – 1:30pm Lunch Break

1:30pm – 3:00pm Cloud Computing

1:30pm - "Evaluating Distributed Resilient Adaptable Cloud Platform for Emerging Applications", Antonio Celesti, Nicola Peditto, Fabio Verboso, Massimo Villari and Antonio Puliafito (University of Messina, Italy).

2:00pm - "Sustained Resilience via Live Process Cloning", Arash Rezaei and Frank Mueller (North Carolina State University, USA).

2:30pm - "A Model for the Evaluation of User-Perceived Service Properties", Andreas Dittrich, Igor Kaitovic, Cristina Murillo and Rafael Rezende (Università della Svizzera Italiana, Switzerland).

3:00pm – 3:30pm Coffee Break

3:30pm – 5:00pm High Performance/Availability Computing

3:30pm - "Symmetric Comparison-Based Fault Diagnosis of Multiprocessor and Distributed Systems Using Nonlinear Support Vector Machines", Mourad Elhadef (University of Ottawa, Canada).

4:00pm - "A Comprehensive Analysis of XOR-based Erasure Codes Tolerating 3 or More Concurrent Failures", Pradeep Subedi and Xubin He (Virginia Commonwealth University, USA).

4:30pm - "Monitoring and Controlling System for Microservers", Andreas Doering (IBM Research Laboratory, Switzerland) and Tibor Kiss (Gamax Kft, Hungary).

5:00pm – 6:00pm Fault Tolerance

5:00pm - "Investigating Standby from a System Reliability Perspective", Salvatore Distefano (Politecnico di Milano, Italy).

5:30pm - "Towards Fault-Tolerant and Energy-Efficient Swarms of Underwater Robots", Ammar Amory, Benjamin Meyer, Christoph Osterloh, Thomas Tosik and Erik Maehle (University of Luebeck, Germany).

6:00pm – 6:10pm Concluding Remarks