Morning Session: Technology

9:00-9:20 Nanosystems: technologies, devices, architectures and applications
Giovanni De Micheli
Swiss Federal Institute of Technology, Lausanne, Switzerland

9:20-9:40 On-Chip Monitoring for Self-Improvement
Dennis Sylvester
University of Michigan, Ann Arbor, Michigan - USA

9:40-10:00 Nanometer-scale CMOS vs Silicon nanowire technologies: Novel approaches for mitigating delay variations
Yusuf Leblebici
Swiss Federal Institute of Technology, Lausanne, Switzerland

10:00-10:40 DISCUSSION + Coffee break

10:40-11:00 Thermal-Aware Design for 3D Multi-Processor ICs in Datacenters
David Atienza
Swiss Federal Institute of Technology, Lausanne, Switzerland

11:00-11:20 Robust System Design
Subhashish Mitra
Stanford University, Stanford, California - USA

11:20-11:40 Process Variation Effects in 3-D Clock Distribution Networks
Vasilis Pavlidis
Swiss Federal Institute of Technology, Lausanne, Switzerland

11:40-12:00 DISCUSSION

Afternoon Session: Systems

14:00-14:20 Characterization and Visualization of Power use Variability in High Performance Platforms
Rajesh Gupta
University of California, San Diego, California - USA

14:20-14:40 Telecommunications in the Deep Submicron Regime
Heinrich Meyr\textsuperscript{1}, Andreas Burg\textsuperscript{2}
\textsuperscript{1}RWTH Aachen University, Germany; \textsuperscript{2}Swiss Federal Institute of Technology, Lausanne, Switzerland

14:40-15:00 Under-designed and Opportunistic Computing Machines
Puneet Gupta
University of California, Los Angeles, California - USA

15:00-15:40 DISCUSSION + Coffee break

15:40-16:00 Variability Models and Sensors with Impacts on Hardware Security
Wayne Burleson
University of Massachusetts, Amherst, Massachusetts - USA

16:00-16:20 Integrating End-to-End and Cross-Layer Optimizations for Reliable Cyber-Physical Systems
Nikil Dutt
University of California, Irvine, California - USA

16:20-16:40 Variability in Datacenters
Tajana Šimunić Rosing
University of California, San Diego, California - USA

16:40-17:00 DISCUSSION