

# Symposium on Emerging Trends in Computing

10-11 October 2016, Grand Hotel Suisse Majestic, Montreux, Switzerland

## Monday, 10 October 2016

### Session 1: Designing Computing Systems

**08:30-08:45** Welcome by Giovanni De Micheli

**08:45-09:35** Leveraging Emerging Technologies in Computing

Giovanni De Micheli (*Professor and EE Department Head, EPFL*)

**09:40-10:30** IoT Optimized IP: Balancing processor performance and energy consumption

Yankin Tanurhan (*Vice President Engineering, Solutions Group, Synopsys*)

**10:30-11:00** Coffee break

**11:00-12:30** Panel on Embedded Hardware and IoT Security

Panel Chair: **Wayne Burleson** (*Professor, University of Massachusetts*).  
Participants: **Srdjan Capkun** (*Professor, ETHZ*), **Farinaz Koushanfar** (*Professor, UC San Diego*), **Pankaj Rohatgi** (*Director of Engineering, Cryptography Research Inc.*), **Lionel Torres** (*Deputy Head, Polytech Montpellier*), **Vincent van der Leest** (*Director Business Development, Intrinsic-ID*), **Ingrid Verbauwhede** (*Professor, KU Leuven*)

**12:30-14:00** Lunch break

### Session 2: New Computing Paradigms

**14:00-14:50** Frontiers of Cognitive Computing

Costas Bekas (*Foundations of Cognitive Computing Manager, IBM Zurich*)

**14:50-15:40** Customizable Computing: Options and Opportunities

Jason Cong (*Professor, UCLA*)

**15:40-16:00** Coffee break

**16:00-17:30** Panel on Data-Driven Science in Education and Research

Panel Chair: **Giovanni De Micheli** (*Professor and EE Department Head, EPFL*). Participants: **Karl Aberer** (*Vice President, EPFL*), **Georges Gielen** (*Vice Rector, KU Leuven*), **Marco Gilli** (*Rector, Politecnico di Torino*), **Steve Kang** (*President, KAIST*), **Donatella Sciuto** (*Vice Rector, Politecnico di Milano*), **Hiroto Yasuura** (*Vice President, Kyushu University*)

**19:00-20:00** Cocktail hour

**20:00-22:30** Gala Dinner

**21:00-22:00** Computation: To see a world in a grain of sand

Dave Liu (*President Emeritus, National Tsing Hua University*)

## Tuesday, 11 October 2016

### Session 3: Advanced Processor Design

**08:45-09:35** Sub-pj per Operation Parallel Computing in CMOS: From Foundations to Implementation

Luca Benini (*Professor, ETHZ*)

**09:40-10:30** Carbon Nanotube (CNT) Computing

Subhasish Mitra (*Professor, Stanford University*)

**10:30-11:00** Coffee break

**11:00-12:30** Panel on Emerging Computing Paradigms

Panel Chair: **Yusuf Leblebici** (*Professor, EPFL*). Participants: **Andrea Acquaviva** (*Professor, Politecnico di Torino*), **Geoffrey Burr** (*Researcher, IBM Almaden*), **Christian Gamrat** (*Fellow, CEA-LETI*), **Dan Hammerstrom** (*Professor, Portland State University*), **Giacomo Indiveri** (*Professor, University of Zurich*), **Rudy Lauwereins** (*Vice President, IMEC*), **Karlheinz Meier** (*Professor, University of Heidelberg*)

**12:30-14:00** Lunch break

### Session 4: Applications

**14:00-14:50** Robotizing the World

Alessandro Cremonesi (*Vice President, ST Microelectronics*)

**14:50-15:40** The Age of Smart Machines

Luc Julia (*VP of Innovation, Samsung Strategy and Innovation Center*)

**15:40-16:00** Coffee break

**16:00-17:30** Panel on Cyber-physical Systems

Panel Chair: **David Atienza** (*Professor, EPFL*). Participants: **Rolf Ernst** (*Professor, TU Braunschweig*), **Rajesh Gupta** (*Professor, UC San Diego*), **Stéphane Paccard** (*Global IoT Alliances Lead, Hewlett Packard Enterprise*), **Ricardo Reis** (*Professor, UFRGS*), **Dennis O'Sullivan** (*Data Center Solutions Operations Specialist, Eaton Corp*), **Lothar Thiele** (*Professor, ETHZ*)

