

Wednesday, January 24, 2018		Room 11
8:45 AM - 9:45 AM	HiPEAC Keynote	Auditorium @ Manchester Central Convention Center
10:00 AM - 10:05 AM	Opening Session Christos Bouganis (Imperial College London, UK), Vanderlei Bonato (University of São Paulo), Juergen Becker (KIT, Germany), and João M.P. Cardoso (Univ. of Porto, Portugal)	
Topic 1: Reconfigurable Computing in the era of Machine Learning		
10:05 AM - 11:00 AM	<i>Keynote:</i> Are FPGAs ready for accelerating datacenters? by Dirk Koch, University of Manchester, UK Chair: João MP Cardoso, University of Porto and INESC TEC, Portugal	
11:00 AM - 11:30 AM	Coffee Break	
11:30 AM - 1:00 PM	<i>Invited Talks:</i> Energy proportional binarized neural networks with adaptive voltage and frequency scaling, by Jose L. Nunez-Yanez, Bristol University, UK Tool-flows for mapping CNNs into FPGAs: trends and challenges, by Christos Bouganis, Imperial College London, UK Ultra-low power features of Nema GPUs, by Georgios Keramidas, CSO (Think Silicon S.A.), Greece Chair: João Bispo, University of Porto and INESC TEC, Portugal	
1:00 PM - 2:00 PM	Lunch & Exhibition	
Topic 2: Reconfigurable Computing for ADAS		
2:00 PM - 3:00 PM	<i>Keynote:</i> Reconfigurable Embedded Systems for Autonomous Driving, by Smail Niar, University of Valenciennes & CNRS, France Chair: Christos Bouganis, Imperial College London, UK	
3:00 PM - 3:30 PM	<i>Invited Talk:</i> Convolutional Neural Networks on embedded systems: an exploratory study, by Dr. Paolo Burgio, Università degli Studi di Modena e Reggio Emilia - UNIMORE Chair: Dr. Christos Bouganis, Imperial College London, UK	
3:30 PM - 4:00 PM	Coffee Break	
4:00 PM - 5:00 PM	<i>Invited Talks:</i> Next Generation Automotive Networks for ADAS and Autonomy by Suhaib Fahmy, University of Warwick, UK Multi-level control of reconfigurable architectures for autonomous vehicles, By Jean-Philippe Diguët, CNRS, Lab-STICC, Lorient Chair: Christos Bouganis, Imperial College London, UK	
5:00 PM - 5:45 PM	<i>Panel Discussion:</i> RC + ADAS and the role of machine learning Chair: João M.P. Cardoso, University of Porto, PT <i>Panel members:</i> Dirk Koch, University of Manchester, UK Smail Niar, University of Valenciennes & CNRS, France Jean-Philippe Diguët, CNRS, Lab-STICC, Lorient, FR Suhaib Fahmy, University of Warwick, UK	
5:45 PM - 5:50 PM	Closing Session	