



## AXC20: 5<sup>TH</sup> WORKSHOP ON APPROXIMATE COMPUTING

IN CONJUNCTION WITH DAC'20

JULY 19, 2020

4PM – 7PM (CEST TIME)

TECHNICAL PROGRAM



3:55PM **Opening**, Alessandro Savino (AxC 20 General Chair), Politecnico di Torino (IT)

4PM - 4:30PM – **Invited Talk 1**

**Support for Approximate Architectures in languages, compilers, and runtime systems**, *Sasa Misailovic*, University of Illinois, USA

4:30PM – 5:00PM - **Session 1**

**Search Space Characterization for AxC Synthesis**, *Linus Witschen*, Paderborn University (DE)

**An Approximate Sequential Multiplier with Segmented Carry Chain and Variable Accuracy**, *Jorge Echavarria*, FAU (DE)

*Coffee break (15 minutes)*

5:15PM – 5:45PM – **Invited Talk 2**

**Interplay of Approximate Computing and Security**, *Francesco Regazzoni*, ALaRI – USI (CH), UVA (NL)

5:45PM – 6:30PM - **Session 2**

**Defensive Approximation: Enhancing CNNs Security through Approximate Computing**, *Ihsen Alouani*, Université Polytechnique Hauts-De-France, (FR)

**Investigating the Impact of Radiation-Induced Soft Errors on the Reliability of Approximate Computing Systems**, *Lucas Matana Luza*, Université de Montpellier (FR)

**Challenges and opportunities in resorting to Approximate Computing in HW/SW co-design of an SDR multimode modem**, *Henry Cox*, Mediatek, USA

6:30PM - 7:00PM - **Invited Talk 3**

**Error-tolerant Deployment of Quantized Neural Network**, *Giulio Gambardella* (Xilinx)