APROPOS/DELTA Winter School 2022: "Approximate Computing and Machine Learning"

Virtual school 14.-16.2.2022 in Zoom

2 ECTS credits available for PhD students by an approved learning diary, to be returned to jari.nurmi@tuni.fi.

Register at https://forms.office.com/r/rMczdZqsHY in advance to get the participation link.

Agenda (times in CET; for Finnish time add 1 hour)

Monday February 14

9:30	Opening, introducing DELTA and APROPOS (Jari Nurmi, TAU)
10:00	Approximation by word length adjustments (Giuseppe Tagliavini, UNIBO)
11:15	break
11:30	Exploiting accuracy tradeoffs in Edge orchestration (Anil Kanduri, UTU)
13:00	lunch break
14:00	Machine learning and deep neural networks (Luca Benini, UNIBO)
15:30	Discussion
16:00	end of day

Tuesday February 15

9:30	Autonomous Drone Inspections and real-time AI analysis (Nili Guy and Benjamin Mandler, IBM Haifa Research Laboratory)
11:00	break
11:15	Machine learning applications (Enrique Quintana-Orti, UPV, Giovanni Agosta and William Fornaciari, POLIMI)
12:15	lunch break
13:15	In-memory computing for AI, Irem Boybat-Kara (IBM Zurich Research Laboratory)
14:15	Break
14:30	Hardware acceleration for Machine Learning, Vidhi Zalani (IBM Yorktown Research Laboratory)
16:00	Discussion
16:30	end of day

Wednesday February 16

9 :30	Machine learning for communications and positioning (Jukka Talvitie, TAU)
11:00	break
11:15	Efficient machine learning for imaging applications (Jani Boutelier, UWASA)
12:15	lunch break
13:15	BCPNN (model of cortex) and SOM based genome recognition as approximate computing benchmarks (Dimitrios Stathis, KTH)
14:15	break
14:30	SiLago platform and plans to extend it for approximate computing (Ahmed Hemani, KTH)
15:30	Discussion and closing
16:00	end of Winter School