HARDWARE-EFFICIENT EDGE AI
ON-LINE CLASS on MS TEAMS
March 12-22, 2024

WEEK 1	MARCH 12-15
WEEK 2	MARCH 18-22

| DAILY | Central European Time | Eastern Standard Time | Pacific Standard Time | India Standard Time |
	CET (Lausanne)	EST (New York)	PST (California)	IST (India)
Module 1	3:00-4:30 pm	9:00-10:30 am	6:00-7:30 am	7:30-9:00 pm
Module 2	5:00-6:30 pm	11:00 am-12:30 pm	8:00-9:30 am	9:30-11:00 pm

WEEK 1	Module		
Tuesday, March 12	1	**Context:** ML Applications, Scenario's and Constraints for the Edge	Marian Verhelst, KU Leuven
	2	**Context:** ML Algorithms and Resulting Challenges	
Wednesday, March 13	1	**Algorithms:** Neural Network Compression for the Edge	Tijmen Blankevoort, Qualcomm
	2	**Algorithms:** Neural Network Quantization for the Edge	
Thursday, March 14	1	**HW, CPU:** Specializing Processors for ML	Luca Benini, ETHZ/Uni Bolgna
	2	**HW, CPU:** From Single to Multi-Core Low-Power SoCs for ML	
Friday, March 15	1	**HW, Digital:** Concepts Towards ML Acceleration	Marian Verhelst, KU Leuven
	2	**HW, Digital:** Exploiting Quantization and Sparsity at the HW Level	

WEEK 2	Module		
Monday, March 18	1	**HW, Analog:** Analog/Mixed-Signal Acceleration	Naveen Verma, Princeton
	2	**HW, Tech:** Architectural Integration of Emerging Compute Models and Technologies	
Tuesday, March 19	1	**Tools:** Accelerator Code Generation	Tobias Grosser, University of Cambridge
	2	**Tools:** Landscape of DL Compilers	
Wednesday, March 20	1	**Emerging ML Paradigms:** Neuro-Inspired Computing	Jan Rabaey, UC Berkeley
	2	**Emerging ML Paradigms:** Towards Cognitive Systems	
Thursday, March 21	1	**System:** Efficient Execution of Approximated AI Algorithms on Heterogeneous Edge AI Systems	David Atienza, EPFL
	2	**Use Cases:** Application-Driven System Design and Optimization flow of Edge AI Use Cases in Industrial and Medical Domains	
Friday, March 22	1	**Use Cases:** Energy Efficient ML Applications for Metaverse	Huichu Liu, Meta
	2	Cross-Layer Optimization	Marian Verhlest, KU Leuven