

ESWEEK 2025: Taipei International Convention Center (TICC): No. 1, Section 5, Xinyi Road, Taipei City 110014

All times are Taipei Time (GMT+8)				
Friday, September 26 - Education Classes				
	Virtual	Virtual	Virtual	
08:00-10:00 (PDT, GMT-7), 11:00-13:00 (EDT, GMT-4), 17:00-19:00 (CEST, GMT+2), 23:00-01:00 (Taipei, GMT+8)	Education Class 1: Revisiting Approximate Computing - New Possibilities on the Horizon	Education Class 2: Getting Started with the Quest RTOS and Quest-V Partitioning Hypervisor		
00:30-12:30 (PDT, GMT-7), 13:30-15:30 (EDT, GMT-4), 19:30-21:30 (CEST, GMT+2), 01:30-03:30 (Taipei, GMT+8)	Education Class 3: Reliability of Object Detection for Automotive and Aerospace Applications	Education Class 4: Neuromorphic Computing for Extremely Constrained Embedded Applications	Education Class 5: Hardware- software Co-design for Printed and Flexible Electronics for Emerging On-sensor Processing Applications	

Sunday, September 28 - Tutorials				
	101A	101B	101C	101D
09:00 - 10:30	Tutorial 1: Deep Software Stack Optimization for AI-Enabled Embedded Systems	Tutorial 2: Design Automation for ML-enabled Cyber-Physical Systems: From Verification to Synthesis	Tutorial 3: CEDR: A Holistic Software and Hardware Design Environment for Hardware Agnostic Application Development and Deployment on FPGA-Integrated Heterogeneous Systems	Tutorial 4: Design, Model, and Explore Approximate Arithmetic Operators for Energy-efficient AI Inference
10:30 - 11:00	Coffee Break			
11:00 - 12:30	Tutorial 1: Deep Software Stack Optimization for AI-Enabled Embedded Systems	Tutorial 2: Design Automation for ML-enabled Cyber-Physical Systems: From Verification to Synthesis	Tutorial 3: CEDR: A Holistic Software and Hardware Design Environment for Hardware Agnostic Application Development and Deployment on FPGA-Integrated Heterogeneous Systems	Tutorial 4: Design, Model, and Explore Approximate Arithmetic Operators for Energy-efficient AI Inference
12:30 - 13:30	Lunch Break (4F VIP Room)			
13:30 - 15:00	Tutorial 1: Deep Software Stack Optimization for AI-Enabled Embedded Systems	Tutorial 5: Hardware-Aware Compilation and Simulation for In- Memory Computing		
15:00 - 15:30	Coffee Break			
15:30 - 17:00	Tutorial 1: Deep Software Stack Optimization for AI-Enabled Embedded Systems	Tutorial 5: Hardware-Aware Compilation and Simulation for In- Memory Computing		
18:00 - 21:30	Reception (3F, Ballroom II, Grand Hyatt Taipei)			

Monday, September 29 - Main Conferences, Day 1				
	201ABC			
08:30 - 09:00	Opening Session			
09:00 - 10:00	KEYNOTE 1: Challenges in the Symbiosis between Semiconductors and AI, Speaker Dr. Nicky Lu, AITA			
10:00 - 10:30	Coffee Break			
	101A	101B	101C	101D
10:30 - 12:00	EMSOFT 1: Real-Time Scheduling	CODES+ISSS 1: Mitigating Memory Bottlenecks	CASES 1: Neural Network Systems and Computing in Memory	
12:00 - 12:30	Poster Session			
12:30 - 13:30	Lunch Break (4F VIP Room)			
13:30 - 15:00	EMSOFT 2: Cyber-Physical Systems	CODES+ISSS 2: Reliable Neural Networks	CASES 2: Resource Management and Scheduling in Distributed and Heterogeneous Systems	Embedded System Software Competition
15:00 - 15:30	Coffee Break & Poster Session			
15:30 - 17:00	EMSOFT 3: Resource Allocation	CODES+ISSS 3: Synthesis and Optimizations	CASES 3: Smart Storage	Embedded System Software Competition
17:00 - 17:30	Poster Session			

Tuesday, September 30 - Main Conferences, Day 2				
	201ABC			
08:30 - 09:00	Test of Time Award Ceremony			
09:00 - 10:00	KEYNOTE 2: Powering the Edge: AI Accelerators for Smarter and Greener Wearables, Speaker: Prof. David Atienza Alonso, EPFL			
10:00 - 10:30	Coffee Break			
	101A	101B	101C	101D
10:30 - 12:00	EMSOFT 4: Hybrid and Control Systems	CODES+ISSS 4: Acceleration of AI Models	CASES 4: Hardware Security and Testing	11:30 - 12:30: SIGBED Business Meeting
12:00 - 12:30	Poster Session			
12:30 - 13:30	Lunch Break & CEDA Luncheon Keynote, Speaker: Prof. Sanjit A. Seshia, UC Berkeley, Host: L. Miguel Silveira (3F Banquet Hall)			
13:30 - 15:00	EMSOFT 5: Logic and Verification	CODES+ISSS 5: Security Attacks and Countermeasures	CASES 5: Chiplet Architectures, Multiprocessors and Transformers Acceleration	ACM SIGBED Student Research Competition
15:00 - 15:30	Coffee Break & Poster Session			
15:30 - 17:00	EMSOFT SS 1: Intermittent TinyML: Powering Sustainable Deep Intelligence without Batteries	CODES+ISSS SS 1: Hardware- Software Co-Design for Machine Learning Systems Made Open- Source	CASES SS 1: Emerging Scope and Design Challenges for Approximate Computing: Optimizing Accuracy- PPA Trade-offs and Beyond	EMSOFT SS 2: Predictable Timing Behavior in Distributed Cyber- Physical Systems
18:00 - 22:00	Banquet (3F, Ballroom I, Grand Hyatt Taipei)			

Wednesday, October 1 - Main Conferences, Day 3				
	201ABC			
08:30 - 09:00	Best Paper Award Ceremony			
09:00 - 10:00	KEYNOTE 3: Mindful AI for Adaptive, Resilient, Cyberphysical Human Systems, Speaker: Prof. Nikil Dutt, UC Irvine			
10:00 - 10:30	Coffee Break			
	101A	101B	101C	101D

10:30 - 12:00	EMSOFT 6: Embedded Artificial Intelligence and Machine Learning	CODES+ISSS 6: Robust System Design	CASES 6: FPGAs, Low-cost Hardware and Approximate Computing	
12:00 - 12:30	Poster Session			
12:30 - 13:30	Lunch Break (4F VIP Room)			PhD Forum & Recruitment (Lunch)
13:30 - 15:00	EMSOFT 7: Under the Hood	CODES+ISSS 7: Application-Specific Optimizations	CASES SS 2: Design and Optimization for AI/ML Acceleration on Resource-constrained Systems	
15:00 - 15:30	Coffee Break & Poster Session			
	201ABC			
15:30 - 17:00	PANEL			
17:00 - 17:30	Closing Session			

Thursday, October 2 - Workshops, Day 1				
	101A	101B	101C	101D
09:00 - 09:15	MEMOCODE - Opening Remarks and Keynote 1: Distributed Computing on Bittide Systems (Prof. Sanjay Lall, Stanford University)	RSP - Opening Remarks	TCRS - Opening Remarks and Keynote: Time Sensitive Requirement and Applications for Connected Vehicles (Prof. Chi-Sheng Shih, National Taiwan University)	MSC - Opening Remarks
09:15 - 10:30				RSP+MSC - Keynote: A Decade of Research on Hybrid Cloud Storage Systems: A Retrospective (Prof. Jalil Boukhobza, ENSTA)
10:30 - 11:00	Coffee Break			
11:00 - 12:30	MEMOCODE - Regular Session 1: Contract based Design/Reasoning	RSP - Session 1: Networking, SoCs, and Autonomous Systems	TCRS - Session 1: Real-Time Coordination for Connected and Intelligent Vehicles	MSC - Session 1: Performance and Reliability Issues of Processing/Logic-in-Memory
12:30 - 13:30	Lunch Break (4F Joy Lounge)			
13:30 - 15:00	MEMOCODE - Regular Session 2: Timed Systems, Task Graph Modeling, ...	RSP - Session 2: Hardware Platforms and Energy Efficiency	TCRS - Session 2: System and Architecture Design for Time-Sensitive Software	MSC - Session 2: Key Storage Technologies in Future AI Systems and Applications
15:00 - 15:30	Coffee Break			
15:30 - 17:00	MEMOCODE - Regular Session 3: Learning based Systems	RSP - Session 3: Compiler and Simulation Innovations	TCRS - Session 3: Towards Timely and Safe Neural Networks	

Friday, October 3 - Workshops, Day 2				
	101A	101B		
09:00 - 10:30	MEMOCODE - Keynote 2: Formal Design of Safety-critical Embedded Systems (Prof. Naijun Zhan, Peking University)			
10:30 - 11:00	Coffee Break			
11:00 - 12:30	MEMOCODE Regular Session 4: Invited Papers			
12:30 - 13:30	Lunch Break (4F Joy Lounge)			
13:30 - 14:40	MEMOCODE Regular Session 5: Embedded and CPS, Security			
14:40 - 15:00	Closing Remarks			