

**CPS&IoT'2025 Summer School on
Cyber-Physical Systems and Internet-of-Things
Budva, Montenegro, June 10-14, 2025**

Schedule

Day 1, Tuesday 10 June:

09:00-10:00 Wolfgang Ecker, Infineon and TU Munich, DE

Keynote: How to Circumvent a RISCv Dead End

10:00-10:30 Event Chairs and Special Guests

Title: Opening Ceremony of the CPS&IoT'2025 Summer School, and MECO'2025 and CPS&IoT'2025 Conferences

10:30-11:00 Break

11:00-13:00 Lech Jóźwiak, TU/e, NL

Title: Green CPS and IoT for Green World

13:00-14:00 Lunch Break

14:00-15:30 Said Hamdioui, TU Delft, NL

Title: The Future of Energy-Efficient Computing: Beyond CMOS and Von Neumann

15:30-17:00 Natalie Simson & Wolfgang Ecker, DE

Title: RISCv vs. ARM

17:00-17:30 Break

17:30-19:00 Natalie Simson & Wolfgang Ecker, DE

Title: RISCv vs. ARM

Day 2, Wednesday 11 June:

09:30-10:30 Reiner John, AVL, AT

Title: Keynote: AI+ — Self-Awareness as the Key to Resilience, Efficiency, and ROI

10:30-11:00 Break

11:00-12:30 Reiner John, AVL, AT

Title: Applications of Quantum Sensing and AI in Real-Time Edge Computing Systems (lecture/hands-on)

12:30-14:00 Lunch Break

14:00-17:00 Nabil Abdennadher, Univ. of Applied Sciences, West. Switzerland, CH

Title: Towards a decentralized Federated Learning based edge-to-edge Continuum Computing Framework

17:00-17:30 Break

17:30-19:00 Iryna DE ALBUQUERQUE SILVA, CEA, FR

Title: Aidge: Embedded AI Open Source Platform

21:00 Gala Dinner

Day 3, Thursday 12 June:

09:00-10:30 Samir OUCHANI, CESI, FR

Title: Designing Trustworthy Smart Systems: Bridging Artificial Intelligence and Formal Methods

10:30-11:00 Break

11:00-12:30 Zakaria Chihani, CEA, FR

Title: Trustworthy AI: Methods & Tools

12:30-13:30 Lech Jóźwiak, TU/e, NL

Title: Quality-driven Design of Cyber-Physical Systems

13:30-14:30 Lunch Break

14:30-16:30 Hans Vangheluwe and Joachim Denil, University of Antwerp, BE

Title: General systems engineering concepts (for CPS) and General modelling and simulation concepts

16:30-17:30 Joachim Denil, University of Antwerp, BE

Title: Requirements Modelling for Testing and Run-time Monitoring

17:30-18:00 Break

18:00-19:00 Rakshit Mittal and Hans Vangheluwe, University of Antwerp, BE

Title: Modelling and simulation of physical systems using OpenModelica (lecture/hands-on)

Day 4, Friday 13 June:

09:00-10:00 Rakshit Mittal and Hans Vangheluwe, University of Antwerp, BE

Title: Calibration and control of physical systems using OpenModelica (lecture/hands-on)

10:00-12:00 Joeri Exelmans and Hans Vangheluwe, University of Antwerp, BE

Title: Modelling, simulation, and synthesis of discrete-event systems using Statecharts (lecture/hands-on)

12:00-13:00 Lunch Break

13:00-16:30 Anish Bhobe, Dominique Blouin, and Yara Hallak, Telecom Paris, FR

Title: Modelling, verification, and synthesis of embedded cyber-physical systems using AADL and RAMSES (lecture/hands-on)

16:30-17:00 Break

17:00-18:30 Radovan Stojanovic, University of Montenegro and MECOnet, ME

Title: Design of performance and energy efficient nodes for smart systems

18:30-19:00 Closing of the CPS&IoT'2025 Summer School

+ Free participation in sessions of the CPS&IoT'2025 Conference and MECO'2025 Conference

Summer School participants are expected to come with their own laptops. Internet access will be guaranteed.

Day 5, Saturday 14 June: Excursion possible (excursion fee is not included in the summer school fee)