

ApplePies

Applications in Electronics Pervading Industry, Environment and Society

Bologna, 10-11 September 2026

Objective

The **ApplePies International Conference** (Applications in Electronics Pervading Industry, Environment and Society) intends to provide an opportunity of reciprocal meeting and knowledge on industrial and research activities for academicians, practitioners, and managers who operate in the field of electronic applications. Industrial liaisons and business-academy dialogue and collaborations are specifically targeted.

The conference offers a venue for presenting original research works, achievements and panels on the latest trends in electronic applications pervading industry 4.0/5.0, environment and society. The overall goal is to stimulate a profitable collaboration between academy and industry on the world of the applications of the electronic technologies.

Topics of interest include, but are not limited, to the following areas.

Enabling Technologies

Machine Learning and Deep Neural Networks; TinyML and Edge AI; Cognitive Systems; Digital Signal and Image Processing; AI-Accelerated Hardware and Neuromorphic Computing; Embedded Systems; (Open Source) HW/SW Platforms; Open Hardware, RISC-V and Chiplet-Based Architectures; Ultra-Low-Energy and Low-Power Computation and Storage; High-Performance Computing; MEMS/MOEMS; Nano-Technologies; Silicon Photonics and Optical Communications; Sensors and Actuators; Cyber-Physical Systems; Robotics; "Makers" Systems; Wireless Communications; Wired and Power-Line Communications; 5G Networks and IoT; IoT Protocols and Standards; Radio-Frequency Identification (RFID); Ubiquitous Computing; System of Systems; Digital Twins for Electronic Systems and Processes; Cryptography; Dependable, Resilient and Fault-Tolerant Electronic Systems.

Health-Care

Biomedical Imaging; Biomedical Instrumentation; Health Monitoring; Energy Harvesting for Biomedical Applications; Brain-Computer Interfaces (BCI) and Brain-Machine Interfaces (BMI); Human-Machine Interfaces (HMI) and Augmented Reality; Biomimetic and Bio-Inspired Systems; Crowd-Sensing and Human-Centric Sensing; Wearable and Implantable Electronic Systems; Point-of-Care and Lab-on-Chip Devices; Medical Electronics for Aging Societies and Assisted Living.

Space

Electronics for Small Satellites and CubeSats; In-Orbit Computing and On-Board Edge AI Processing; HW and SW for Space Communication; Navigation and Localization Technologies; Redundant, Secure and Rad-Hard Systems.

Secure, Clean and Efficient Energy

Smart Grids; Electronics for PV Energy Production; Electronics for Hydrogen, Fuel Cells and Alternative Energy Sources; Power Converters for Renewable Energy Systems; Power Management ICs and Ultra-Efficient Converters; Energy Scavenging; Residential Micro-Grids; Domestic and Residential Energy Storage Systems; Monitoring, Diagnostics and Predictive Maintenance for Energy Systems; Wireless Power Transfer; Batteryless and Maintenance-Free Electronic Systems.

CALL FOR PAPERS

Submission deadline (max 6 pages): **5 June 2026**

Notification date: **end of August**

All accepted papers will be published on

Springer LNEE series

indexed by Scopus and ISI WoS

Registration is free for all interested participants!

Environment

Wireless Sensor Networks; Smart Sensors for Environmental Applications, IoT and Sustainable Development; Environmental Monitoring and Control; AgriFood Systems; Precision Agriculture and Livestock Monitoring; Electronics for Circular Economy and Waste Management; Climate-Resilient Sensing Infrastructures; Large-Scale Environmental Data Fusion and Analytics; Energy Harvesting for Autonomous Systems.

Education and Entertainment

Cultural Heritage; Digital Learning and Education; Educational Electronics Platforms and Remote Laboratories; Collaborative Applications and Systems; Games Design and Implementation; Serious Games and Gamification for Training and Industry; Mixed Reality (AR/VR/XR) Systems for Education and Culture.

Smart, Green and Integrated Transportation

Intelligent Transportation Systems; Intelligent Electronics for Road Safety; Driver Information Management; Autonomous Driving Electronics; Vehicle-to-Everything (V2X) Communication Systems; Electronics for Micro-Mobility and Shared Mobility; Sustainable Logistics and Fleet Monitoring Electronics; Smart Li-Ion Batteries; Aviation, Rail and Maritime Electronic Applications; Serious Games for Transportation and Mobility.

Defense, Safety & Security

Perimeter Security and Surveillance Systems; Anti-Drone and Counter-UAS Systems; Critical Infrastructure Protection; Crisis Monitoring and Early-Warning Electronic Systems; Radar, Sonar, LiDAR and Multisensor Fusion Systems; Swarm Electronics and Cooperative Multi-Agent Systems; Edge AI and Real-Time Decision-Making.

System Engineering

System Modeling and Simulation; Requirements Engineering; Co-Design Methodologies (HW/SW/AI); Lifecycle Management of Electronic Systems; Testing and Verification; Certification, Standardization and Compliance; Reliability, Safety and Ethics in Electronic Applications.



General Chair: Prof. Luca De Marchi

Program Committee:
<https://applepies.unige.it/organization>

Conference location:
University of Bologna

Website: <https://applepies.unige.it/>