POLITECNICO DI TORINO
Repository ISTITUZIONALE

Editorial of International Conference on Applications in Electronics Pervading Industry, Environment and Society, APPLEPIES 2024

Original
Editorial of International Conference on Applications in Electronics Pervading Industry, Environment and Society, APPLEPIES 2024 / Ruo Roch, M., Bellotti, F., Berta, R., Martina, M., Motto Ros, P.. - ELETTRONICO. - 1369:(2025).

Availability:
This version is available at: 11583/3005014 since: 2025-11-08T17:00:44Z

Publisher:
Springer

Published
DOI:

Terms of use:

This article is made available under terms and conditions as specified in the corresponding bibliographic description in the repository

Publisher copyright

(Article begins on next page)

18 November 2026

Preface

The 2024 edition of the conference on Applications in Electronics Pervading Industry, Environment and Society was held in Torino, Italy, on September 19–20, 2024, at Politecnico di Torino. During the two days, 97 registered participants, from 35 different entities (28 universities and 7 industries), discussed electronic applications in several domains, demonstrating how electronics was ever more pervasive and embedded in everyday objects and processes.

The conference had the technical and financial support of the University of Genoa and Politecnico di Torino.

After a strict blind-review selection process, 42 full lectures and 26 poster presentations have been accepted in 6 sessions, focused on circuits and electronic systems and their relevant applications in the following fields: Cybersecurity and cryptography (S1), RISC-V Ecosystem (S2), Health applications (S3), Transportation systems (S4), Sensing applications (S5), Image processing (S6), Specialized IP design (S7), and AI applications (S8).

There was also one scientific keynote on open science, taught by Prof. Federica Cappelluti (Politecnico di Torino) and an industry panel about current challenges for electronics technology in EV transition.

The articles collected in this book present significant contributions on leading-edge electronic engineering research applications penetrating all aspects of everyday life and industry, supporting domains such as mobility, security, energy, health. The presented works also show the importance of a multidisciplinary approach to deal with the complexity of current systems, intended both as products and services. APPLEPIES participants have deepened and discussed the design of different electronics-enabled systems characterized by innovation, high performance, real-time operations, and budget compliance (in terms of time, cost, device size, weight, power consumption, etc.).

The APPLEPIES 2024 conference has reached its twelfth edition, becoming a reference point for the growing research community in the field of electronics systems applications.

Massimo Ruo Roch