

MAY 20th—22th 2024



Organized by

University of Zilina, SK Cracow University of Technology, PL University of Catania, IT Technically co-sponsored by

CONFERENCE TOPICS

TPC1 Informatics and Information Technologies

Wireless, Optical and Photonic Systems and Networks; Advanced Networks and Services; Modelling and Simulations in ICT; Digital Signal Processing; Multimedia Technologies; E-Society; Intelligent Transport Systems, Transport Telematics and Smart Cities; E – Safety, Risk Analysis, Theory and Methods of Safety Control; Artificial Intelligence in Process Control; Communication Systems in Transport and Industry

TPC2 Power Electronics and Energy Systems

Power Electronic Devices and Converter Topologies; Modelling, Simulation, Measurement; Control Systems, Digital Control and Microelectronics; Thermal Performance and Optimization; Power Electronic Systems and Applications; Autotronics; Automotive Applications (EV, HEV, etc.); Power Train and Communication In Vehicles; Battery Management and Energy Storage; Electrical Machines, Drives and Traction; Power Electrical Engineering, Smart Grids, Renewable Power Sources; Power Supply for Electrical Railways Applications; Electrical Measurements and Instrumentations

TPC3 Materials (and) Technologies, Biomedical Engineering

Electromagnetic Fields in Various Materials and Coupled Problems; Utilization of Electromagnetic Field Effects in Material Nondestructive Evaluation; Analysis of Electromagnetic Field and Electrical Circuits using Analytical and Numerical Methods; Technical Tools and Computer-aided Methods in Biomedical Engineering; New and Perspective Materials and their Physical Properties; New Experimental Methods, Techniques and Technologies; Thin Layers and Heterostructures; Microelectronic and Optoelectronic Devices; Optical Fibers and Cables

TPC4 Robotics, Cybernetics, Mechatronics

Industrial and Mobile Robotics; Mobile and Compliant Manipulators; Multiagent Systems; Intelligent Vehicles; Visual Sevoing; Data processing; Control Systems; Mechatronic Systems – design, modelling, simulation and optimization; Sensors and Actuators; Automation Devices; Biologically Inspired Robotics; Collaborative Robotics; Aero-Space Applications

TPC5 Education in Electrical Engineering and ICT

Attractiveness of Engineering Education; Project and Problem Based Learning; E-learning

REGISTRATION AND FEES

Type of registration	Early*	Regular
Authors (1 st and 2 nd paper**)	€ 580	€ 610
IEEE members	€ 510	€ 540
Additional paper (3 rd and the following)	€ 300	€ 300
Students (Ph.D.)	€ 490	€ 520
IEEE graduate student/student member	€ 390	€ 420
Participants (without papers)	€ 560	€ 590
Accompanying person	€ 500	€ 500

Regular registration deadline is midnight CEST, 31.03.2024

- The early registration deadline is midnight CET, 29.02.2024
- ** Registered author can submit two papers

The registration fee for In-Person participants includes the attendance at all conference sessions, lunches, coffee breaks, conference dinner, documentation and social programme.

The registration fee for accompanying person includes lunches, coffee breaks, conference dinner and social programme.



IMPORTANT DATES

November 30, 2023 January 19, 2024 March 29, 2024 February 29, 2024 March 31, 2024 May 20 - 22, 2024 Deadline for uploading full papers
Notification of acceptance
Final papers submission
Early registration deadline
Regular registration deadline
Conference

PUBLICATION - GENERAL INFORMATION

Accepted papers will be submitted for inclusion into IEEE Xplore.

Since 2014 publications of the ELEKTRO conferences were indexed in the databases **Web of Science, Scopus** and **IEEE**. Also publications from the ELEKTRO 2024 conference will be requested to be evaluated and covered in the mentioned databases.

The registration fee payment is necessary to involve the paper to proceedings.

Selected and extended papers with relevant scope will be proposed for publication in impacted international scientific journals.

THE CONFERENCE

The conference is the fiftteenth of the series of international conferences which began in 1995 initially as a national conference with international participation. The conference is organized by the Faculty of Electrical Engineering and Information Technology, University of Žilina, every two years.

The purpose of the conference is to provide an international forum for researchers and professionals interested in electrical and electronic engineering, information and communication technologies as well as interdisciplinary areas with the main attention to the conference topics.

VENUE AND LOCATION

The ELEKTRO 2024 conference will take place in hotel Belvedere, Zakopane, Poland.

Zakopane is a town in the extreme south of Poland, in the southern part of the Podhale region at the foot of the Tatra Mountains. It is Poland's best-known mountain resort, famed for hiking in summer and skiing in winter. Zakopane is also known for its beautiful wooden villas, dating from the late 19th century.

Zakopane has many tourist attractions such as Kasprowy Wierch Cable Car, Cmentarz Zasluzonych Na Peksowym Brzyzku, Gubalowka, Krupowki Street, Giewont Mountain, Wielka Krokiew, Kotelnica Bialczanska, and Aqua Park Zakopane. Winter sleigh rides combined with a bonfire, singing and regional treats are one of the favorite tourist attractions of Zakopane.





INTERNATIONAL SCIENTIFIC COMMITTEE

AUBRECHT, V. Brno University of Technology, Czechia University of Zilina, Slovakia University of Zilina, Slovakia University of Zilina, Slovakia University of Bologna, Italy University of Zilina, Slovakia University of Maribor, Slovenia Brno University of Technology, Czechia Technical University of Kosice, Slovakia DRUTAROVSKY, M. University of Zilina, Slovakia - pub. & org. chair Lublin University of Technology, Poland University of Zilina, Slovakia Comenius University, Slovakia University of Zilina, Slovakia University of Zilina, Slovakia University of West Bohemia, Czechia Cracow University of Technology, Poland Ryazan State Radio Eng. Univ. named after V. F. Utkin, Russia Slovak University of Technology in Bratislava, Slovakia Brno University of Technology, Czechia

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ORGANIZING COMMITTEE

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