



Society for Electronics, Telecommunications, Computers, Automatics and Nuclear engineering

**12th International Conference on Electrical, Electronic, and Computing Engineering
IcETRAN 2025,
Čačak, Serbia, June 9-12, 2025**

FOURTH ANNOUNCEMENT & FINAL CALL FOR PAPERS

VENUE

The IcETRAN conference will be held in Čačak, Serbia. The host is the Faculty of Technical Sciences in Čačak of the University of Kragujevac, which celebrates its 50th anniversary, with the University of Priština in Kosovska Mitrovica as a co-organizer.



For more information about the Conference host please visit <http://www.ftn.kg.ac.rs/>

The IcETRAN Conference is sponsored by the IEEE Region 8, the IEEE Industrial Electronics Society, the IEEE Serbia and Montenegro Section, the IEEE Bosnia and Herzegovina Section, the IEEE S&M Section Power and Energy Chapter, and the IEEE S&M Section Computer Society Chapter. Parallel to the IcETRAN conference, the 69th National Conference of the ETRAN will be held.

All IcETRAN 2025 papers may be considered for inclusion into the IEEE Xplore Digital Library, and to be listed/cited through the SCOPUS, the Web of Science, and Google Scholar.



For more information about the Conference visit the website: www.etrans.rs

IMPORTANT DATES

- **December 31, 2024** - Deadline for proposing special sessions, workshops, tutorials, and invited lecturers
- **May 8, 2025 – FINAL DEADLINE FOR PAPERS SUBMISSION**
- **May 10, 2025** - Review process finalized; Reviews sent back to authors
- **May 12, 2025** - Final (revised) versions of papers received
- **May 12, 2025** - Preliminary Program (Conference site)
- **May 12 / May 26, 2025** - Early Registration (Early Bird) for the conference
- **June 8, 2025** - Preliminary Proceedings (Conference site)
- **June 9, 2025** - OPENING SESSION OF THE IcETRAN 2025 AND ETRAN 2025 CONFERENCES



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TOPICS (Sections)

- Electronics (ELI)
- Telecommunications (TEI)
- Computing and information engineering (RTI)
- Automation (AUI)
- Nuclear engineering and technology (NTI)
- Acoustics (AKI)
- Antennas and Propagation (API)
- Electric circuits and systems and signal processing (EKI)
- Power engineering (EEI)
- Biomedical engineering (BTI)
- Metrology (MLI)
- Microelectronics and optoelectronics (MOI)
- Microwave technique, technologies, and systems (MTI)
- New materials in electrical and electronic engineering (NMI)
- Robotics and flexible automation (ROI)
- Artificial intelligence (VII)
- Education (EDUI)

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MAIN SPEAKERS:

KEYNOTE (PLENARY) LECTURES

Prof. Emer. Vojislav Kecman, Virginia Commonwealth University, Richmond, USA,

„Artificial Intelligence – Myth or reality: The Third Golden Age”,

Prof. Petar Grbović, Innsbruck Power Electronics Laboratory (i-PEL), University of Innsbruck, Austria,

“Current Source PWM Converters - From Past to the Future”

Prof. Ron Dabora, University of Princeton, Princeton, NJ, USA, & Ben Gurion University, Beersheva, Israel,

“Interference-limited communications: Models, Inherent Limits, and Insights”

Prof. Vesna Spasić Jokić (ETRAN), University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia,

„Modern activities of the International Atomic Energy Agency”,

INVITED LECTURES

Section BTI: Dr. Lazar I. Jovanović, Wear Tech Labs, Simon Fraser University, Surrey, BC, Canada,
“Brain-Computer Interface: Past, Present, and Future”,

Section MLI: Živko Kokolanski, Ss Cyril and Methodius University in Skopje, Faculty of Electrical Eng. and Inform. Technol., Skopje, North Macedonia, “Advancing Energy Digitalization through Digital Twins and Living Labs”



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Section RTI: Pavle Vuletić, Žarko Stanisavljević, University of Belgrade, School of Electrical Engineering, Belgrade, Serbia, „New approach to information protection in the cloud”,

INVITED PAPERS

Section EEI: Dr. Jan Barta, Brno University of Technology, Faculty of Electrical Engineering and Communication, Department of Power Electrical and Electronic, Brno, Czech Republic, “Advancements In Electrical Machines for E-mobility”

Section EKI: Zoran Stamenković, University of Potsdam, Potsdam, and IHP-Leibniz Institute for Innovative Microelectronics, Frankfurt (Oder), Germany, “Machine Learning Techniques for Smart Agriculture”.

Section EEI: Chen Hao, China University of Mining and Technology, Xuzhou, Jiangsu, China, “Switched Reluctance Motor Drive for Electric Heavy-Duty Trucks”

Section ROI: Miloš Pjević, University of Belgrade, Faculty of Mechanical Engineering, Belgrade, Serbia, „Additive Technologies in the Service of Advanced Robotics and Vice Versa”

Section NMI: Mirjana Šiljegović, University of Novi Sad, Faculty of Sciences, Department for Physics, Novi Sad, Serbia, „Advantages of simultaneous use of IS/DS spectroscopy analysis in characterization of transport properties of ceramics and chalcogenide glasses”

Section ELI: Dejan Mirković, University of Niš, Faculty of Electronic Engineering, Niš, Serbia, „Digital Filters in CMOS Technology: Design, Topology and Performance”

Assoc. Section TP (ETRAN): Radovan Gospavić, University of Belgrade, Faculty of Civil Engineering, Belgrade Serbia, „Modeling heat transport through multilayer planar structures using electrical analogies and analytical methods in the time and complex domains”

AWARDS

BEST PAPER AWARDS (max 16) – Each section of the ETRAN society may award the best paper.

The authors of the awarded papers are invited to submit a modified version of the manuscript for publication in international journals that cooperate with ETRAN society:

- Science of Sintering, <http://ojs.itn.sanu.ac.rs>, Published by ETRAN Soc., (Web of Science, Scopus, Crossref, DOAJ; SJR rank Q2; MNTRI of the R. Serbia rank: M22),
- Facta Universitatis, Series: Electronics and Energetics, <http://casopisi.junis.ni.ac.rs/Index.php/FUElectEnerg>, Published by the University of Niš, (Scopus, Crossref, DOAJ; SJR rank Q4; MNTRI of the R. Serbia rank M24)
- Serbian Journal of Electrical Engineering, <http://www.journal.ftn.kg.ac.rs>, Published by FTN Čačak, (Scopus, Crossref, DOAJ, SJR rank Q4; MNTRI of the R. Serbia rank M51),
- Electronics Journal, <http://els-journal.etf.unibl.org>, Published by ETF Banja Luka, (Scopus, DOAJ, SJR rank Q4; MNTRI of the R. Serbia rank M53)
- Microwave Review, https://www.mtt-serbia.org.rs/microwave_review, Published by MTTS Niš, (Scopus, IET Inspec, EBSCO, Crossref, DOAJ; SJR rank Q4; MNTRI of the R. Serbia rank M53)

BEST YOUNG AUTHOR PAPER AWARDS - Each section of the ETRAN society may award the best young author's paper. The authors of the awarded papers are invited to submit a modified version of the manuscript for publication in

- Serbian Journal of Electrical Engineering, <http://www.journal.ftn.kg.ac.rs>, Published by FTN Čačak, (Scopus, Crossref, DOAJ, SJR rank Q4; MNTRI of the R. Serbia rank M51)

MANUSCRIPT SUBMISSION

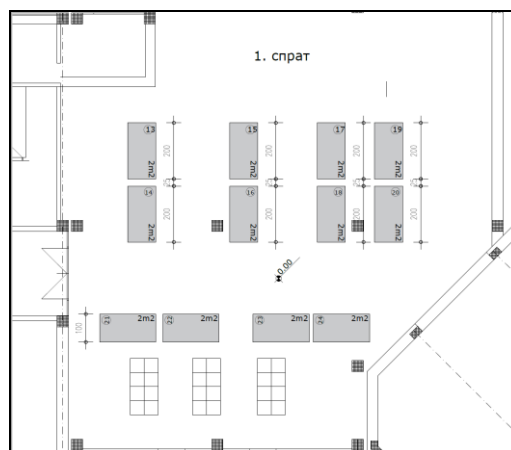
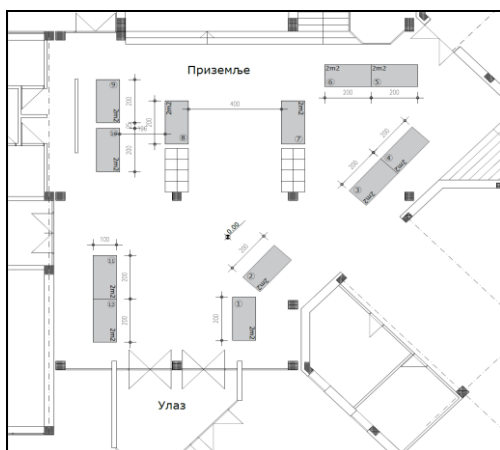
Papers are solicited for the ETRAN and IcETRAN Conferences presenting original theoretical or practical research results, the results of the application of theoretical methods in solving practical engineering problems, or descriptions of practical solutions or instrumentation. Only results not published or presented previously are acceptable. Presented papers will be published after the conference either through e-Proceedings at the IEEE Xplore, or at the IcETRAN conference site (the author should select one of these two options). The detailed instructions for camera-ready manuscripts are on the IcETRAN conference site. Manuscripts must be submitted electronically in PDF format using:



The [EasyChair conference management system](https://www.easychair.org/)

EXHIBITION

The companies, enterprises, start-ups, and all that have an interest in the field of electrical, electronics, and computer/software engineering are invited to present themselves in the IcETRAN/ETRAN 2025 accompanying Industry Day and Exhibition in the main hall. Around 300 participants (professors, Ph.D., researchers, students, industry leaders,...) are expected. For more details, please contact the Exhibition Chair Assoc. Prof. Marko Rosić.



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