



11th International Conference on Electrical, Electronic, and Computing Engineering IcETRAN 2024
NIŠ, Serbia, June 3-6, 2024

FIFTH ANNOUNCEMENT

https://www.etran.rs/2024/en/home-english

The IcETRAN and ETRAN conferences will be held in Niš, Serbia from 3-6 June 2024. The host is the University of Niš, Faculty of Electronic Engineering, Niš (https://www.elfak.ni.ac.rs), while supported by the University of Priština, Faculty of Technical Sciences in Kosovska Mitrovica.









The IcETRAN Conference is sponsored by IEEE Region 8, IEEE Serbia and Montenegro Section, IEEE Bosnia and Herzegovina Section, IEEE Industrial Electronics Society, IEEE S&M Section Chapter of the Microwave Theory and Technology Society, and IEEE S&M Section Chapter of the Computer Society.

All accepted and presented IcETRAN 2024 papers will be included in the IEEE Xplore Digital Library, and listed/cited through the SCOPUS, and the Web of Science.







Scopus

ORGANIZED BY:

Society for ETRAN University of Niš - Faculty of Electronic Engineering, Niš University of Priština in Kosovska Mitrovica

UNDER THE AUSPICES:

Ministry of Science, Technological Development and Innovations of the Republic of Serbia (NITRA)

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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 eng. (NMI)
- Robotics and flexible automation (ROI)
- Artificial intelligence (VII)
- Education (EDUI)

IMPORTANT DATES

- January 31, 2024 Deadline for proposing special sessions, workshops, tutorials, and invited lecturers
- April 21, 2024 FINAL DEADLINE FOR PAPERS SUBMISSION
- April 25, 2024 Review process finalized, reviews sent back to authors
- May 3, 2024 Preliminary Program (Conference site)
- May 10 May 24, 2024 Early Registration (Early Bird) for the conference
- May 15, 2024 Final (revised) versions of papers received
- June 2, 2024 Preliminary Proceedings (Conference site)
- June 3, 2024 OPENING SESSION OF THE ICETRAN 2024 and ETRAN 2024 CONFERENCES

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. Besides the papers covering the fields of interest of particular sections of the Conferences, authors are encouraged to submit papers dedicated to education in the topics of interest for the sections of the two colocated conferences.

Students of Ph.D., master's, and undergraduate studies are specially invited and will be stimulated to submit papers.

The detailed instructions for manuscript preparation and template are on the IcETRAN 2024 conference site.

The prospective authors should use the <u>EasyChair conference management system</u>

AWARDS

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

BEST YOUNG AUTHOR PAPER AWARDS - Each ETRAN society section may award the best young author's paper.



KEYNOTE LECTURES

Stevo Božinovski¹, Mihail Sestakov², and **Prof. Liljana Bozinovska¹,** ¹South Carolina State University, Orangeburg (SC), USA, ²Pelsi Group, Sydney, Australia

"Steps toward an IEEE Milestone achievement for a pioneering work in science" (IcETRAN - Plenary)

Dr. Dragana Popovic Renella, SENIS Group, Baar, Switzerland (ICETRAN)

"Moving the Limits: Advancements in Magnetic Sensors and Instruments for Industry and Physics Laboratories"

Prof. dr Georgi Dimirovski, UKIM, Skopje, Republic of North Macedonia (IcETRAN)

"Complex Networks and Systemic Structures: Synergies of Control, Communications and Computing via Šiljak's Dynamics Graphs"

Prof. dr Bratislav Milovanović, Univerzitet Singidunum, Centar Niš, Srbija, prof. dr Predrag Petković, Univerzitet u Nišu, Niš, Srbija, dr Milan Ranđelović, Naučno tehnološki park, Niš, Srbija

"Od Grada elektronike ka Gradu naprednih tehnologija" (ETRAN)

Prof. dr Bratislav Milovanović, Univ. Singidunum, Centar Niš, Srbija, dr Milan Ranđelović, Naučno-tehnološki park, Niš, Srbija "Prilog obeležavanju jubileja: 170 godina od rođenja Mihajla Idvorskog Pupina" (ETRAN)

INVITED LECTURE

Miroslav Pajić (IcETRAN, Sekcija), Duke University, Durham (NC), USA (IcETRAN - ROI) "Securing Autonomy in Contested Environments"

INVITED PAPERS

Veljko B. Petrović, Dinu Dragan, and Dušan Gajić, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia "Accidental Centralization: Pitfalls of Blockchain-Based Project Architectures" (ICETRAN - RTI)

Aleksander Sadikov^{1,2}, Marta Malavolta¹, Andrea De Gobbis², and Vida Groznik^{1,2}, ¹Artificial Intelligence Laboratory, Faculty of Computer and Information Science, University of Ljubljana, Slovenia; ²Neus Diagnostics d.o.o., Ljubljana, Slovenia

"Design of eye-tracking test batteries for early detection of cognitive (and motor) impairments" (ICETRAN - BTI)

Nikola Basta, Nemanja Grujičić, Aleksa Madžarević, University of Belgrade, School of Electrical Engineering, Belgrade, Serbia "Enhancement of Circuit Theory Course Using Low-Cost Software Defined Instruments" (ICETRAN - EKI)

Jelica Radomirović, Sara Čubrilović, Zvezdana Kuzmanović, Zoran Banjac, and Milan Milosavljević, Institute VLATACOM, Belgrade, Serbia

"Perfectly secret system for voice transmission based on common randomness" (IcETRAN - VII)

Mare Srbinovska¹, Sijce Pechkova², Aleksandar Pechkov², Maja Celeska Krstevska¹, Aleksandra Krkoleva Mateska¹, Pavel Dimovski², and Vesna Andova¹, ¹Ss Cyril and Methodius University, Faculty of Electrical Engin. and Information Technologies, ²Ss Cyril and Methodius University, Faculty of Technology and Metallurgy, Skopje, Republic of North Macedonia

"A Comprehensive Study on Air Pollution Prediction in North Macedonia: Insights from LASSO Modeling" (ICETRAN - MLI)

Dragan Olćan and Darko Ninković, University of Belgrade, School of Electrical Engineering, Belgrade, Serbia

"Machine learning in applied electromagnetics" (ICETRAN - API)

Jelena Krneta Nikolić, "Vinča" Inst. of Nuclear Sciences, Univ. of Belgrade–Nation. Inst. of the Rep. of Serbia, Belgrade, Serbia "Nuclear Robotics: Proof of concept for localization of contamination and a protocol for decontamination driven by robot" (IcETRAN - NTI)

Dragana Markushev, Sanja Aleksić², Neda Branković², Dragan Pantić², Aleksandar S. Pantić², Dragan Markushev¹, ¹Institute of Physics, Zemun, Belgrade, Serbia, ²University of Niš, Faculty of Electronics Engineering, Niš, Serbia

"How to use sound as a powerful tool for new material characterization" (IcETRAN - NMI)

Miljko Erić and Nenad Vukmirović, University of Belgrade, School of Electrical Engineering, Belgrade, Serbia

"Direct Localization of Multiple Acoustic Sources Using Distributed Microphone Arrays" (ICETRAN – AKI)

Jurij Prezelj, University of Ljubljana, Faculty of Mechanical Engineering, Ljubljana, Slovenia

"Network of Microphone Arrays for Localization and Classification of Biological and Anthropogenic Sound Events"

SPECIAL SESSIONS

Special Session 1: Outlooks and Challenges in Urban Solar Applications (ICETRAN)

Session organizers: **Milutin Petronijević**, *University of Niš*, *Faculty of Electronic Engineering*, *Niš*, *Serbia* and **Ivana Radonjić Mitić**, *University of Niš*, *Faculty of Sciences and Mathematics*, *Niš*, *Serbia*

Special Session 2: Transmission and distribution networks: configurations and solutions for the sustainable energy transition (IcETRAN)



Session organizer: **Manuela Minetti,** *University of Genoa, Dep. of Electrical, Electronic and Telecommunication Eng. and Naval Arch., Genoa, Italy*

Special Session 3: Radars in interaction with humans and the environment (ICETRAN)

Session organizers: **Olga Boric-Lubecke,** IEEE Fellow, *University of Hawai'i at Manoa, Honolulu, HI, USA, and* **Milica Janković,** *University of Belgrade, School of Electrical Engineering, Belgrade, Serbia*

Special Session 4: Self-Driving Cars and Artificial Intelligence (ICETRAN)

Session organizer: Gyula Mester, Obuda University, Budapest, Hungary

PANEL SESSIONS/ROUND TABLE

Round Table 1: "Obrazovanje kadrova iz oblasti elektrotehnike i računarstva u digitalnom okruženju" (ETRAN) Moderator prof. dr Zora Konjović, Univerzitet Singidunum, Beograd, Srbija

Authors, wishing to submit the papers within the special session or discussion for the panel session/round table, should contact the corresponding session chairman or Prof. Dr. Platon Sovili, the chairman of the Program Committee. The papers will be evaluated as regular ones would be.

POST-CONFERENCE PUBLICATION POSSIBILITIES

A Special issue devoted to selected papers of the 11th IcETRAN conference will be published by

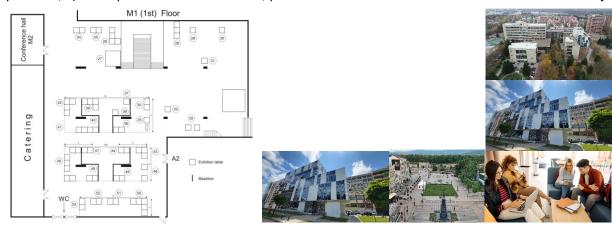
• Facta Universitatis, Series: Electronics and Energetics, http://casopisi.junis.ni.ac.rs/Index.php/FUElectEnerg, Published by the University of Niš.

The authors of the invited, awarded, and specially selected papers will be called 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., Belgrade (Web of Science, Scopus, Crossref, DOAJ; SJR Rank Q2; NITRA Rank: M22),
- Serbian Journal of Electrical Engineering, http://www.journal.ftn.kg.ac.rs, Published by the FTN Čačak,
- Electronics Journal, http://els-journal.etf.unibl.org, Published by ETF Banja Luka,
- Microwave Review, https://www.mtt-serbia.org.rs/microwave_review, Published by the MTTS, Niš

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 2024 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 Prof. Milutin Petronijević.



CONTACT

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