



2022 XXXI INTERNATIONAL SCIENTIFIC CONFERENCE "ELECTRONICS ET2022"

September 13 - 15, 2022
Sozopol, Bulgaria

IEEE CONFERENCE RECORD #55967

CALL FOR PAPERS

ORGANIZED BY:

TECHNICAL UNIVERSITY OF SOFIA,
FACULTY OF ELECTRONIC ENGINEERING AND TECHNOLOGIES, BULGARIA

IN CO-OPERATION WITH:

DELFT UNIVERSITY OF TECHNOLOGY, THE NETHERLANDS

**The conference is organized within the framework
"Days of Science of the Technical University of Sofia 2022"**

TECHNICALLY CO-SPONSORED BY:

IEEE Bulgaria Section
Union of Electronics, Electrical Engineering and Telecommunications (CEECE)

The presented papers will be submitted to the IEEE *Xplore* Digital Library®. The materials are abstracted and indexed in Scopus and Clarivate Analytics Web of Science.

OFFICIAL LANGUAGE

English is the official language of the Conference.

REGISTRATION

The Registration, papers submission and notifications are performed on-line on the web site of the Conference: <http://e-university.tu-sofia.bg/e-conf/?konf=24>

Faculty of Electronic Engineering and Technologies (FETT): <http://fett.tu-sofia.bg/>

Conference e-mail: elecs@tu-sofia.bg

DEADLINES: Registration and full papers submission: June 19, 2022.

Notification of acceptance: July 17, 2022.

Final version submission: July 31, 2022.

ORGANISING COMMITTEE

- Honorary co-chairs:** *Ivan Kralov*, Technical University of Sofia, Bulgaria
Ratcho Ivanov, Technical University of Sofia, Bulgaria
Gerard C.M. Meijer, Delft University of Technology, the Netherlands
- General co-chairs:** *Georgy Mihov*, Technical University of Sofia, Bulgaria
Stoyan Nihtyanov, Delft University of Technology, the Netherlands
- Vice chairs:** *Ivo Iliev*, Technical University of Sofia, Bulgaria
Marin Hristov, Technical University of Sofia, Bulgaria
- Scientific secretary:** *Peter Yakimov*, Technical University of Sofia, Bulgaria
- Members:** *Lidia Galabova*, Technical University of Sofia, Bulgaria
Rossen Radonov, Technical University of Sofia, Bulgaria
Ivan Mihaylov, Visteon Electronics Bulgaria
Ivan Yatchev, Union of Electronics, Electrical Engineering and Telecommunications (CEEC)
Valentina Markova, IEEE Bulgaria Section Chair, Bulgaria
Dimitar Arnaudov, Technical University of Sofia, Bulgaria
Ivaylo Pandiev, Technical University of Sofia, Bulgaria
George Angelov, Technical University of Sofia, Bulgaria
Nikolay Hinov, Technical University of Sofia, Bulgaria
Boriana Tzaneva, Technical University of Sofia, Bulgaria
Georgi Nikolov, Technical University of Sofia, Bulgaria
Katya Asparuhova, Technical University of Sofia, Bulgaria
- Technical secretary:** *Tsvetomir Lazarov*, Technical University of Sofia, Bulgaria

PROGRAM COMMITTEE

- Stefan Ovcharov*, Technical University of Sofia, Bulgaria
Alex Van den Bossche, Ghent University, Belgium
Anna Stoyanova, Technical University of Sofia, Bulgaria
Cvetan Gavrovsky, University Ss Cyril and Methodius, North Macedonia
Darius Andriukaitis, Kaunas University of Technology, Lithuania
Emil Manolov, Technical University of Sofia, Bulgaria
Grisha Spasov, Technical University of Sofia, Plovdiv branch, Bulgaria
Irena Jekova, Bulgarian Academy of Sciences, Bulgaria
Ivan Dotsinsky, Bulgarian Academy of Sciences, Bulgaria
Ivan Tashev, Microsoft, USA
Ivaylo Zhivkov, Brno University of Technology, Czech Republic
Jeroen Boydens, KU Leuven, Belgium
Jerzy Potencki, Technical University of Rzeszow, Poland
Jivka Ovtcharova, KIT, Germany
Joan Peuteman, KU Leuven, Belgium
Marin Marinov, Technical University of Sofia, Bulgaria
Marius Neag, TU of Cluj-Napoca, Romania
Namyong Kim, Kangwon National University, Korea
- Norocel-Dragos Codreanu*, PUB, Romania
Peter Goranov, Technical University of Sofia, Bulgaria
Robert Plana, LAAS CNRS, France
Stanimir (Stan) Valtchev, Universidade Nova de Lisboa, Portugal
Stefan Hensel, HS-Offenburg, Germany
Stefan Tabakov, Technical University of Sofia, Bulgaria
Stoyan Stoyanov, University of Greenwich, UK
Tihomir Takov, Technical University of Sofia, Bulgaria
Todor Stefanov, Leiden University, The Netherlands
Valeri Mladenov, Technical University of Sofia, Bulgaria
Vencislav Valchev, Technical University of Varna, Bulgaria
Vessela Krasteva, Bulgarian Academy of Sciences, Bulgaria
Vladimir Vavilov, National Research Tomsk Polytechnic University, Russia
Volker Zerbe, FHE, Germany
Wieslaw Kuzmicz, Warsaw University of Technology, Poland
Yoji Fujita, Kanazawa Institute of Technology, Japan
Zivko Kokolanski, University Ss Cyril and Methodius, North Macedonia



VENUE

Hotel Lazur
7, Lazuren bryag Str.



CONTACTS

Peter Yakimov
Phone: +359 893 341 434, +359 2 965 3265
e-mail: pjij@tu-sofia.bg

TECHNICAL TRACKS

BIOMEDICAL ENGINEERING

Bioinformatics, Biosensors, Bioengineering and Mechatronics Applications in Life Sciences, Computer-aided Diagnosis in Healthcare, Health on the Web, e-Health and Wearable IoT, Smart Medical Systems

CIRCUITS AND SYSTEMS

Electronic Circuits Analysis and Design, Computer Modelling and Applications, Computer-aided Design/Manufacturing, Modelling and Simulation of Systems, HDL or High Level Language Hardware Design, FPGAs, System-on-chip Design, Digital Signal and Image Processing, Optical Fiber Communications, Lasers and Electro-Optics, Circuits and Systems for Artificial Intelligence, Neural Networks, Augmented and Virtual Reality

EDUCATION AND LEARNING TECHNOLOGIES

Educational Tools, Continuous Learning, Educational Materials and Methods, Distance Learning, Information and Communication Technologies in Laboratories, University - Industry Collaboration, Entrepreneurship and Management, Human Resource Development

EMBEDDED SYSTEMS

Distributed Control Systems for Industrial Applications, Industrial Informatics, Industrial Network Design, Internet in Industry 4.0, Industrial Internet of Things, Cloud & Networked Systems, Intelligent Environment, Building Management and Automation

INSTRUMENTATION AND MEASUREMENT

Measurements and Data Acquisition, Sensors and Sensing Systems, Precision Measuring Technology, Networked Sensing and Control, Mechatronics and Robotics, Advanced Control Systems, Measurement and Control for Automobile Systems, Process and Factory Automation, Flexible Manufacturing Systems, Smart Agriculture, Radiation Measurements and Applications, Instrumentation for Nuclear Power Generation

MICROELECTRONICS

Electronic Components, Advanced Semiconductor Design and Manufacturing, Simulation and Experiments in Microelectronics, Electronic Packaging

NANOELECTRONICS AND TECHNOLOGIES IN ELECTRONICS

MEMS and NEMS, Micro/Nano-Manufacturing, Smart Actuators and Materials, Composite and Polymer Materials

POWER ELECTRONICS

Power Electronics Modelling, Simulation and Design, DC/DC Conversion, AC/AC Converters, Renewable Electric Energy Conversion, Energy Storage Technologies, Power Quality, Utility Applications, Smart Grid, Electrical Machines and Industrial Drives, Electric and Hybrid Electric Vehicles

TESTING, QUALITY AND RELIABILITY

Electromagnetic Compatibility, Thermal and Vibrations Issues, Lifecycle Management, Safety and Reliability

CONFERENCE REGISTRATION FEES

Regular Fee before August 15, 2022	280 EUR
Regular Fee after August 15, 2022	310 EUR
Student Fee before August 15, 2022	220 EUR
Student Fee after August 15, 2022	240 EUR
Visitor Fee	220 EUR
IEEE Members Discount	15%

BANK INFORMATION

Eurobank Bulgaria AD
Branch Sofia 1756, office Darvenitza
8, Kl. Ohridski blvd.
IBAN BG98 BPBI 7940 1446 1397 01
BIC BPBI BGSF
Fee for ET 2022

The registration fee includes:

Up to two papers presentation, Admission to all Conference sessions, Conference set, Official Reception, Opening Party, and Conference Gala Dinner on Thursday evening, September 14.