

CALL FOR **PAPERS**





The 44th International Convention on Information, Communication and Electronic Technology

> 24 - 28 May 2021 - Opatija, Croatia Grand Hotel Adriatic and Hotel Admiral

www.mipro.hr mipro@mipro.hr

Papers can be submitted to the following international conferences and special session:

- MEET
- Microelectronics, Electronics and Electronic Technology
- DS-BE
- Data Science and Biomedical Engineering
- CTI
- Telecommunications & Information
- CE
- Computers in Education
- CTS
- Computers in Technical Systems
- CIS
- RTA
- Intelligent Systems
- ISS
- Robotics Technologies and Applications - Information Systems Security
- miproBIS
- Business Intelligence Systems
- DE-DS
- Digital Economy and Digital Society
- ICTLAW
- EE
- Information and Communication Technology Law
- SSE • RHEC
- Engineering Education - Software and Systems Engineering
- Regional Hydrogen Energy Conference
- SP
- MIPRO Junior Student Papers
- OPHO

SP

OPHO

- Optoelectronics and Photonics

Accepted and presented papers in English will be submitted for inclusion in the IEEE Xplore Digital Library.

If you need assistance, please contact the appropriate chair:

MEET Marko Koričić DS-BE Karolj Skala CTI Željka Car CE Marina Čičin-Šain CTS Vlado Sruk CIS Slobodan Ribarić **RTA** Bojan Jerbić ISS Stjepan Groš miproBIS Boris Vrdoljak DE-DS Mladen Mauher **ICTLAW** Tihomir Katulić EE Predrag Pale SSE Tihana Galinac RHEC Ankica Kovač

marko.koricic@fer.hr skala@irb.hr zeljka.car@fer.hr marinacs@efri.hr vlado.sruk@fer.hr slobodan.ribaric@fer.hr bojan.jerbic@fsb.hr stjepan.gros@fer.hr boris.vrdoljak@fer.hr mladen.mauher@tvz.hr tkatulic@gmail.com mipro@zesoi.fer.hr tihana.galinac@unip ankica.kovac@fsb.hr nikola-filip.fijan@fer.hr vera.gradisnik@riteh.uniri.hr

the cocktail party on Wednesday.

REGISTRATION FEES:

 Conferences (except RHEC) and special session Early bird (up to 10 May 2021) Regular (from 11 May 2021)

MIPRO and IEEE members Non-members 220 EUR 200 EUR 230 EUR 250 EUR

Nikola Filip Fijan

Vera Gradišnik

The fee for students (undergraduate and graduate) and secondary school teachers is EUR 120 (without any additional discount). Discount doesn't apply to PhD

- RHEC conference Early bird (up to 10 May 2021) Regular (from 11 May 2021)

The registration fee covers free access to all events at MIPRO convention, including

The exception is RHEC conference for which all students pay a registration fee of

IMPORTANT

Abstract submission: 18 January 2021

Full-paper submission: 8 February 2021

380 **EUR**

530 EUR

Acceptance notification: 15 March 2021

Camera ready submission: 29 March 2021



400 EUR

550 EUR





The 44th International Convention on Information, Communication and Electronic Technology

www.mipro.hr mipro@mipro.hr

24 - 28 May 2021 Opatija, Croatia

Grand Hotel Adriatic and Remisens Hotel Admiral



upro

ICT IN RENEWABLE ENERGY TECHNOLOGIES



44th MIPRO is sailing towards the future of the new technological world!

SUBMIT YOUR PAPER AND/OR EVENT FOR THE 44th INTERNATIONAL ICT CONVENTION MIPRO 2021!

The 44th International ICT Convention MIPRO 2021 is traditionally dedicated to information, communication and electronic technology, renewable energy sources, ecology along with new and high technologies in general.

MIPRO is becoming a hub by joining in with other ICT associations in EU, thus it represents a well-built infrastructure for promotion of knowledge and technologies. We proudly present MIPRO 2021's slogan "ICT IN RENEWABLE ENERGY TECHNOLOGIES".

You are invited to submit scientific, professional and review papers for one of our fifteen conferences. It can be an opportunity to present results of your research and professional work. Scientific interns and students attending graduate study programs are invited and encouraged to submit their papers. The presentations may contain results of scientific research, development of new products and services including results obtained in doctoral and masters' theses. We also welcome papers with descriptions of technical, software, hardware and other solutions and applications. Besides, there are also expected papers of experts in the field of education and education technologies. We invite chairs of European and other projects on science, research, information, technology to present their achievements and experiences as a dissemination action. Furthermore, we would like to point out the papers which reflect results of European projects, networking and development of new cooperation models.

Apart from the conferences there are organized seminars of lifelong learning, round tables, panels, debates, workshops and a traditional exhibition of ICT products, technical solutions and services. Producers of such equipment, products and services are invited to market their products.

We are open to accept ideas and proposals to possibly improve and widen the scope of our conference. Please contact us at skala@mipro.hr or mipro@mipro.hr and we'll be ready to discuss your proposals.

Welcome to the 44th International ICT Convention MIPRO 2021 in the always beautiful town of Opatija, town of tourism, culture, science and new technologies.



CALL FOR ~ **ADDITIONAL EVENTS**

MIPRO is open to all individuals and institutions interested to propose additional events that would enrich MIPRO program.

Interested parties should contact mipro@mipro.hr no later than **1 February 2021.**

EXHIBITION OF ICT, ELECTRONIC AND MICROELEC-TRONIC EQUIPMENT, TECHNICAL SOLUTIONS AND SERVICES, AND PROFESSIONAL LITERATURE:

We hereby invite companies, institutions and ICT experts interested to present their projects and achievements as well ās publishers to present their publications. The organizer will provide additional promotional opportunities. Details at www.mipro.hr or contact mipro@mipro.hr

WORKSHOPS:

- Digital Transformation of Educational Institutions Chairs: Nina Begičević Ređep, Katarina Tomičić-Pupek, ktomicic@foi.hr, Faculty of Organization and Informatics
- Computer Games in Education Chairs: Mario Konecki, mkonecki@foi.hr, Mladen Konecki, Faculty of Organization and Informatics Varaždin, Davor Švaić, Academy of Dramatic Art Zagreb

Nikola Kadoić, Faculty of Organization and Informatics Varaždin

• Data Science 4 Social Science: Case of Education and **Entrepreneurship** Chairs: Dijana Oreški, dijana.oreski@foi.hr, Irena Kedmenec,

PANEL:

• GDPR - Are We Heading in the Right Direction? Chair: Igor Barlek, igor.barlek@pragmatekh.hr, Pragmatekh

∼ SOCIAL EXPERIMENT:

 Psychological Aspects of Risky Online Behavior Chairs: Tena Velki, Faculty of Education Osijek, Krešimir Šolić, kresimir@mefos.hr, Faculty of Medicine Osijek

TUTORIALS (in Croatian):

- HEP Information and Communication Technology in the **Electric Power Sector** Chair: Vitomir Komen, vitomir.komen@hep.hr, HEP-ODS,
- IRP Implementation of Regulatory Policy Chair: Dubravko Sabolić, dubravko.sabolic@hops.hr, HOPS,
- CCE "Correct by Design" The Competitive Edge with Modern Electrical CAE/CAD/CAM Technologies Chair: Robert Brekalo, robert.brekalo@hteurep.hr, HT Eurep,

INFO

General Program Chair:

Academician Karolj Skala, Ruđer Bošković Institute, Bijenička 54, HR-10000 Zagreb, gsm: +385-98-209816, e-mail: skala@mipro.hr

Organization and logistics:

MIPRO Office, Jadranski trg 1/II, PO Box 49, HR-51001 Rijeka, Croatia, phone: +385-51-423984, e-mail: mipro@mipro.hr

More about Opatija: http://visitopatija.com

ORGANIZER:

MIPRO Croatian Society

PATRONS:

University of Zagreb University of Rijeka

Juraj Dobrila University of Pula Ruđer Bošković Institute, Zagreb

University of Zagreb, Faculty of Electrical Engineering and Computing University of Zagreb, Faculty of Organization and Informatics, Varaždin University of Rijeka, Faculty of Maritime Studies University of Rijeka, Faculty of Engineering University of Rijeka, Faculty of Economics and Business

Zagreb University of Applied Sciences
Croatian Academy of Engineering - HATZ
Croatian Regulatory Authority for Network Industries - HAKOM
Ericsson Nikola Tesla, Zagreb

T-Croatian Telecom, Zagreb Končar - Electrical Industries, Zagreb HEP - Croatian Electricity Company, Zagreb

A1 Hrvatska, Zagreb

TECHNICAL CO-SPONSORSHIP:

IEEE Region 8

IEEE Croatia Section Computer Chapter

IEEE Croatia Section Electron Devices/Solid-State Circuits Joint Chapter

IEEE Croatia Section Education Chapter

IEEE Croatia Section Communications Chapter

UNDER THE AUSPICES OF:

Ministry of Science and Education of the Republic of Croatia

Ministry of the Sea, Transport and Infrastructure of the Republic of Croatia Ministry of Economy and Sustainable Development of the Republic of Croatia Ministry of Regional Development and EU Funds of the Republic of Croatia

Ministry of Agriculture of the Republic of Croatia
Ministry of Defence of the Republic of Croatia

Central State Office for the Development of Digital Society Primorje-Gorski kotar County

Croatian Regulatory Authority for Network Industries - HAKOM

Croatian Power Exchange - CROPEX Renewable Energy Sources of Croatia – RES Croatia

INTERNATIONAL PROGRAM COMMITTEE:

INTERNATIONAL PROGRAM COMMITTEE:

K.Skala, General Chair (Croatia), L.Abazi-Bexheti (North Macedonia), E.Afgan (Croatia), S.Aksentijewić (Croatia), S. Alekseif (Germany), S. Amon (Slovenia), A. Antonović (Croatia), M.E.Auer (Austria), V.Avbelj (Slovenia), J.Avšec (Slovenia), D.Babić (Croatia), S. Babić (Croatia), M.E.Auer (Austria), V.Avbelj (Slovenia), J.Avšec (Slovenia), D.Babić (Croatia), S. Babić (Croatia), B.Bebel (Poland), N.Begičević Redep (Croatia), L.Bellatreche (France), A.Boukalov (Belgium), R.Branco (Portugal), Lj.Brkić (Croatia), A. Butha (Croatia), P.Campis) (Italy), Z.Car (Croatia), M.Carmo (Germany), J.Carretero Pérez (Spain), C.O.Colpan (Turkey), B.Cukić (United States), A.Cuzzocrea (Italy), D.Cakara (Croatia), S.Celar (Croatia), M.Čičin-Sain (Croatia), D.Čišić (Croatia), D.Dragičević (Croatia), V.Delić (Serbia), M.Depolii (Slovenia), S.Dešić (Croatia), D.Dragičević (Croatia), T.Eavis (Canada), M.Ferrari (Italy), T.Ferrari (Netherlands), N.F.Fijian (Croatia), R.Fijiar (Croatia), M.Figiar (Croatia), M.Figiar (Croatia), M.Golfarelli (Italy), S.Golubić (Croatia), M.Gulić (Croatia), M.Golfarelli (Italy), S.Golubić (Croatia), M.Gulić (Croatia), S.Grazio (Croatia), M.Gulić (Croatia), M.Julić (Croatia), M.Suličić (Croatia), M.Suličić (Croatia), M.Suličić (Croatia), M.Suličić (Croatia), M.Suličić (Croatia), M.Suličić (Croatia), M.S