

44th International Convention MIPRO

Grand Hotel Adriatic Congress Centre & Hotel Admiral, Opatija, Croatia

ICT IN RENEWABLE ENERGY TECHNOLOGIES

mipro 2021

HYBRID CONVENTION

September 27 - October 1, 2021

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IMPORTANT DATES

Abstract submission
May 17, 2021

Full-paper submission
May 31, 2021

Instructions for paper preparation can be found on **www.mipro.hr**

Please forward to your colleagues



CALL FOR PAPERS

CONFERENCE ON

RHEC

1ST REGIONAL HYDROGEN ENERGY CONFERENCE (RHEC)

CONFERENCE RESUME

Highlight of the RHEC-2021 is the overall recent progress of hydrogen technology including hydrogen production, storage, infrastructure, and its utilization. This comes followed by discussion on national hydrogen energy strategies, codes, public acceptance, national legislations, regulations, and directives for its introduction on global level. Within RHEC-2021 we are also focusing on the fields that currently don't have much connection to the hydrogen, but what will come sooner than later. And this is where, among others, ICT sector is expecting to play noticeable role. ICT is the great electrical energy consumer, and its energy demand is expecting to continue to grow. In order to reduce CO_2 emission, and to keep global warming below 2 degrees Celsius, we need to focus on clean energy, i.e. RES in all sectors. Due to their intermittency, RES comes in conjunction with energy carrier and energy storage, and this is where hydrogen takes its major role as an efficient, and CO_2 free energy carrier that could enable, among others, ICT to make positive change with its carbon footprint.



All submitted and presented papers will be invited for submission to the **International Journal of Hydrogen Energy** which is associated with the **RHEC-2021**. The International Journal of Hydrogen Energy aims to provide a central vehicle for the exchange and dissemination of new ideas, technology developments and research results in the field of Hydrogen Energy between scientists and engineers throughout the world.

IJHE: https://www.journals.elsevier.com/international-journal-of-hydrogen-energy

TOPICS

- Countries Hydrogen Strategies, Policies, and Roadmaps
- Electrolyzers (design, modelling, experimental approach)
- Fuel Cells (design, modelling, experimental approach)
- Green Hydrogen
- Hydrogen Application (transport, households, industry, ICT, general energy)
- Hydrogen Economy
- Hydrogen in Climate Change Adaptation
- Hydrogen in Energy Transition
- Hydrogen in Smart Grids
- Hydrogen Infrastructure (HRS)
- Hydrogen Management
- Hydrogen on Islands with ICT Support
- Hydrogen Perspectives in ICT
- Hydrogen Production
- Hydrogen Safety
- Hydrogen Storage
- Hydrogen Transportation
- Hydrogen Tourism
- Hydrogen Utilization
- Hydrogen Vehicles
- ICT – RES - Hydrogen Based Industrial Development
- Renewable Energy Sources
- Life Cycle Assessment of Hydrogen Technology
- Novel Hydrogen Energy Processes and Technologies

Official language is English.



RHEC

Submit your paper for the conference RHEC which will be held at the 44th International ICT Convention MIPRO 2021.

REGISTRATION / FEES

	EARLY BIRD up to September 13, 2021	REGULAR from September 14, 2021
Members of MIPRO and IEEE	380 EUR	530 EUR
Students (undergraduate, graduate and postgraduate)	300 EUR	450 EUR
Others	400 EUR	550 EUR
Accompanying person	100 EUR	250 EUR

MORE INFO

For all future information please visit **www.mipro.hr** or contact directly RHEC Chairman:

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Keynote Speaker:



Prof. Dr. **Ibrahim Dincer**, Ontario Tech University, Canada
President, National Hydrogen Association

Background:

Ibrahim Dincer is a full professor of Mechanical Engineering at UOIT. Renowned for his pioneering works in the area of sustainable energy technologies he has authored/co-authored numerous books and book chapters, and many refereed journal and conference papers. He has chaired many national and international conferences, symposia, workshops and technical meetings. He has delivered many keynote and invited lectures. He is an active member of various international scientific organizations and societies, and serves as editor-in-chief, associate editor, regional editor, and editorial board member on various prestigious international journals. He is a recipient of several research, teaching and service awards, including the Premier's research excellence award in Ontario, Canada. During the past five years he has recently been recognized by Thomson Reuters as one of the Most Influential Scientific Minds in Engineering and one of the Most Highly Cited Researchers.

Message from Chair:



Hydrogen economy is the synonymous for sustainable energy system in which clean hydrogen replaces fossil fuels. We are currently in the best position ever to make progress in climate change adaptation. And COVID-19 helped us a lot in that, because of which the Earth has took a break and has started to breath with full lungs. During this challenging time, lower emissions of CO2 were recorded, the flora and fauna seemed to be reborn, beautiful photographs of nature and cities were circulating around the world. It is a huge message to all of us that we need to stop living too risky, especially when it comes to mass and fast transportation. During the pandemic, the world was reorganized in many activities. Primarily, mechanisms for the rapid isolation of states will be developed in every way: from health, transport to energy. In context of that, solar energy and other forms of renewable energy sources (RES) in conjunction with hydrogen are directions for energy independence. Macro-networks will need to be able to disintegrate quickly and flexibly into micro-networks, as well as reconnect if necessary, and we need to materialize such a philosophy! Nature offered us a help and this is a great opportunity to create a new green world with energy transition based on hydrogen and RES. **In this way, RES and hydrogen technologies are becoming the key of energy transition and decarbonization of the energy, and in integration with the ICT sector they can ensure a new cycle of industrial development of the country.**

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