



# IEEE IEPS-2020

## 4th International Conference on Intelligent Energy and Power Systems

July 6 - 10, 2020 · Istanbul, Turkey

### Important Dates

Paper Submission: **February 20, 2020**  
 Response of Reviewers: **April 20, 2020**  
 Final Paper Submission: **May 8, 2020**  
 Final Registration for Participation: **May 20, 2020**  
 Program Announce: **June 20, 2020**

### Registration Fees

for international participants:

IEEE Member – 300 EUR  
 Non-IEEE Member – 360 EUR  
 IEEE Life\Student Member – 200 EUR  
 Student – 240 EUR

included Welcome Party, City Tour, Participants Bag, Conference Program & Proceedings, Lunches, Farewell Dinner and Coffe-breaks

for participants from Ukraine, Belarus, Moldova and Republic of Georgia:

IEEE Members – 50 EUR  
 non-IEEE Members – 60 EUR

included City Tours, Conference Program & Proceedings, Participants Bag and Coffee-breaks

**Additional fee:**

Welcome party:  Farewell Dinner:  
 IEEE Members – 30 EUR      IEEE Members – 35 EUR  
 non-IEEE Members – 35 EUR      non-IEEE Members – 40 EUR

### Travel Grants

Organizing Committee will provide limited number of Travel Grants for participants from developing countries, especially for students, young professionals and women in engineering.

### Visa

Foreign participants from countries, who needed to obtain a visa, have to contact the Turkish embassy or find necessary information at the website.

### Contacts

Website: <http://ieps.ieee.org.ua>  
 E-mail: [ieps@ieee.org.ua](mailto:ieps@ieee.org.ua)

### Call for Papers

The IEEE International Conference on Intelligent Energy and Power Systems (IEPS) Conference was founded by IEEE Ukraine Section in 2014. The conference was successfully held twice in 2014 and 2016 in Kyiv, in 2018 Kharkiv, Ukraine. In



2020 Conference planning to be held in Istanbul. The aim of IEEE IEPS is to bring together researchers from the areas of Power & Energy, Power Electronics, Intelligent, Predictive and Adaptive Control, Smart Grid and Industrial Electronics from leading universities, research laboratories and industry. This conference will be the place to discuss modern ideas, innovative concepts and experimental results. We invite You to submit paper and take part in the IEEE IEPS-2020 in Turkey!

### Conference Topics

#### 1. MODERN ENERGY SYSTEMS AND POWER ELECTRONICS

Energy and power system control. Intelligent and predictive control in power electronics. Energy storages. Power system quality and reliability. Diagnostics and protection of electrical equipment. Electromagnetic compatibility problems. FACTS and HVDC. Filters and compensators. Active power quality controllers.

#### 2. RENEWABLE ENERGY SYSTEMS AND DISTRIBUTED GENERATION

Renewable energy systems. Intelligent control for renewable energy systems. Hybrid power systems. Wind power generation systems. Fuel cells applications. Photovoltaic solar power systems. Hydropower systems. Bio-energy systems. Thermal power systems.

#### 3. INTELLIGENT AND ADAPTIVE SYSTEMS IN SMART GRID

Computational intelligence and soft computing in complex energy systems. Predictive, forecasting, adaptive and robust control for energy systems. Decision support systems for energy systems.

#### 4. INDUSTRIAL ELECTRONICS AND ELECTRICAL DRIVES

Industrial electronics, application, standards and control system. Industrial automation. Intelligent control in industrial electronics. Machines and drives. Motion control. Power electronics converters for drives and generators.

#### 5. SPECIAL POWER ELECTRONICS SYSTEMS AND APPLICATIONS

Unconventional power electronics converters. Automotive vehicles, aircrafts, and ships. Welding machines. Special converters applications for medical equipment.

# Organizers & Partners



IEEE Ukraine Section  
IEEE Ukraine Section IE/PE/PEL Societies  
Joint Chapter  
IEEE Ukraine Section PE/IE/IA Societies  
Joint Chapter

IEEE Turkey Section  
IEEE Estonia Section PE/IE Societies  
Joint Chapter  
IEEE Latvia Section IA/IE/PEL Societies  
Joint Chapter

## Conference Committees

<b>Honorary Chairs:</b> <b>Yevgen Sokol</b> , Prof., Rector of National Technical University "Kharkiv Polytechnic Institute", Ukraine <b>Oleksandr Kyrylenko</b> , Prof., Academician of NAS of Ukraine, Director of Institute of Electrodynamics of NASU, Ukraine	<b>Local Organizing Committee Chair:</b> <b>Mykhailo Shyshkin</b> , Dr., National Technical University "Kharkiv Polytechnic Institute", Ukraine <b>Cetin Akinci</b> , Dr., Istanbul Technical University, Turkey
<b>Host Honorary Chairs:</b> <b>Mehmet Karaca</b> , Prof., Rector of Istanbul Technical University, Turkey	<b>Local Organizing Committee Members:</b> <b>Tayfun Akgul</b> , Prof., Head of Department "Telecommunication Engineering", Istanbul Technical University, Turkey <b>Ertugrul Karachua</b> , Prof., Director of "Graduate School of Natural and Applied Sciences", Istanbul Technical University, Turkey <b>Oksana Dovgaluk</b> , Dr., National Technical University "Kharkiv Polytechnic Institute", Ukraine <b>Dmytro Danylchenko</b> , Dr., National Technical University "Kharkiv Polytechnic Institute", Ukraine <b>Roman Zaitsev</b> , Dr., National Technical University "Kharkiv Polytechnic Institute", Ukraine <b>Viacheslav Kulichenko</b> , Dr., National Technical University "Kharkiv Polytechnic Institute", Ukraine <b>Bohdan Styslo</b> , Dr., National Technical University "Kharkiv Polytechnic Institute", Ukraine <b>Serhii Stepenko</b> , Dr., Chernihiv National University of Technology, Ukraine
<b>Chairs:</b> <b>Vadym Makarov</b> , Dr., National Technical University "Kharkiv Polytechnic Institute", Ukraine <b>Serhat Seker</b> , Prof., Dean of ITU Faculty of Electrical and Electronics Engineering, Turkey	
<b>Technical Program Committee Chair:</b> <b>Volodymyr Zamaruev</b> , Prof., National Technical University "Kharkiv Polytechnic Institute", Ukraine <b>Veliyev Eldar</b> , Prof., Director of Ukrainian - Turkish Scientific and Technological Research Coordination Center, Ukraine	
<b>Publication Chair:</b> <b>Kseniya Rezvaya</b> , Dr., National Technical University "Kharkiv Polytechnic Institute", Ukraine	
<b>Finance Chair:</b> <b>Mykola Makhonin</b> , Dr., National Technical University "Kharkiv Polytechnic Institute", Ukraine	

Full List of Conference Committees available at the Conference's website: <http://ieps.ieee.org.ua/>

## Travel and Venue Information

The conference is going to be held in Istanbul, the capital of Turkey. Istanbul is the most populous city in Turkey and the country's economic, cultural and historic center. Istanbul is a transcontinental city in Eurasia, straddling the Bosphorus strait (which separates Europe and Asia) between the Sea of Marmara and the Black Sea. There are many historical, cultural and natural attractions in Istanbul the guests of the city may be interested in.

The sessions are going to be carried out in Istanbul Technical University (Faculty of Electrical and Electronics Engineering). The accommodation for the conference participants may be arranged in the University dormitory or other hotels of Istanbul.

## Paper Submission Guidelines

Submitted papers must be unpublished and should not be submitted elsewhere at the same time. Size of the conference paper should be 4 to 6 full A4 pages, prepared according IEEE Conference Proceedings format. All submitted papers will be peer reviewed by at least three independent reviewers. The official Conference language is English. No simultaneous translation will be provided. All materials concerning the IEPS-2020 should be written in English.

Conference Proceedings will be submitted for inclusion in IEEE *Xplore* Digital Library. "No-show" papers won't be submitted for inclusion in IEEE *Xplore* Digital Library.

All submissions have to be made using CMT system: <https://cmt3.research.microsoft.com/IEPS2020>

