

# IWED 2021

## Call for papers

Virtual event



Russia  
Section  
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# 2021 28th International Workshop on Electric Drives: Improving Reliability of Electric Drives (IWED)

Jan. 27<sup>th</sup> – 29<sup>th</sup> 2021. Moscow Power Engineering Institute, Moscow, Russia.

## About the Workshop

The workshop on Electric Drives is an annual event held by the Department of Electric Drives at the National Research University «Moscow Power Engineering Institute». Over the past 27 years it has become one of the major events in the field of electric drive technology and attracts scientists and researchers from all over Russia and abroad to share their research experience. From 2018 year onward, and in order to further expand international scientific cooperation, the workshop is conducted in the English language and supported by the broadened international scientific committee including support from the IEEE (Russia Section IE/PE/PEL/IA Joint Chapter). The event is technically co-sponsored by IEEE Industrial Electronics, IEEE Industry Applications, and IEEE Power Electronics Societies. The topic of the keynotes for the upcoming event is "Improving Reliability of Electric Drives".



## Venue

The National Research University "Moscow Power Engineering Institute" is the leading power engineering institute in Russia having about 15,000 students from more than 60 countries. The event is scheduled as virtual due to COVID-19 situation. We hope to return to face-to-face format in 2022.

## Committees

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Alecksey Anuchin (MPEI, Russia)

### Publication Chair

Lev Rassudov (MPEI, Russia)

### Program Committee Members

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Yuriy Vagapov (Glyndwr Univ., UK)

Toomas Vaimann (TalTech, Estonia)

Dmitri Vinnikov (TalTech, Estonia)

Valery Vodovozov (TalTech, Estonia)

## Keynotes & Tutorials

**Fernando Briz (University of Oviedo, Spain)** – Encoderless control: a Way to Increase Reliability of Electric Drives

**Jörg Kammermann (Technical University of Munich, Germany)**  
Fault Tolerance Potential of Multiphase Electric Traction Drives

**Alecksey Anuchin (MPEI, Russia)** – Traction Electric Drives: Encoderless Operation and Active Thermal Control

**Anton Rassölkin (TalTech, Estonia)** – Possibility of Digital Twins Technology for Improving Reliability of the Electric Drive

**Marcello Pucci (INM, Italy)** – Advanced Modeling and Sensorless Control for Improved Reliability of Electrical Motor Drives

## Preliminary Program

### Day 1: Tutorials

Will be announced soon

### Day 2: Workday 1: Topical Issues on Electric Drives

- Keynotes
- Selected papers on reliability issues in electric drives
- Oral sessions

### Day 3: Workday 2: Young professionals' day

- Tutorials
- Oral sessions
- Best student paper award

## Submit your paper at:

<https://easychair.org/conferences/?conf=iwed2021>  
More information at: <http://iwed.science>

## Topics

- Power Converters for Electric Drives
- Control Systems of Electric Drives
- Electrical Machines
- Industrial Applications of Electric Drives
- Electric Traction
- Energy Efficiency and Ecological Aspects of Electric Drives
- Electrical Engineering Education

## Important dates

- 2020-12-20 Full paper submission**
- 2020-12-19 Notification of acceptance
- 2020-12-31 Final paper submission
- 2020-12-31 Fee transfer deadline

## Paper Submission

The papers should be full 4 to 6 pages long.

The working language of the conference is English, which will be used for all of the printed materials, presentations and discussions.

**Zero** participation fee for IEEE Student Members.

100% participation fee discount will be granted for 5 highly evaluated student papers (according to the reviewers' scores).

Best student paper awards will be provided.

All the accepted papers presented at oral or poster sessions will be submitted to **IEEE Xplore** database to be cross-referred in **SCOPUS** and **Web of Science**.

**20%** of the papers presented on the conference will be eligible for further review for having the possibility of publication in the **IAS Transactions** or **Magazine**.