

Call for papers

2020 27th International Workshop on Electric Drives – IWED 2020

(MPEI Department of Electric Drives 90th Anniversary)

Moscow Power Engineering Institute, Moscow, Russia, 27th – 30th of January 2020

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 26 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 technical support from the IEEE (Russia Section IE/PE/PEL/IA Joint Chapter). The event is technically co-sponsored by IEEE Industrial Electronics and IEEE Industry Applications Societies. IWED 2020 will be conducted in the honor of the 90th anniversary of the Department of Electric Drives.



Russia
Section
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Contacts

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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 weather conditions for the event dates may vary from -35°C to +5°C. So you should check the weather forecast carefully just before your departure to Moscow in order to ensure that you have appropriate clothing.

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

2019-10-26 Full paper submission
2019-11-30 Notification of acceptance
2019-12-31 Final paper submission
2019-12-31 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.
Special awards will be given to the most highly evaluated student paper.
100% participation fee discount will be granted for 10 highly evaluated student papers (according to the reviewers' scores).
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**.

Committees

Chairman

Alecksey Anuchin (MPEI, Russia)

Publication Chair

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Toomas Vaimann (TalTech, Estonia)

Dmitri Vinnikov (TalTech, Estonia)

Valery Vodovozov (TalTech, Estonia)

Et al.

Keynotes & Tutorials

Vadim Utkin (Ohio State University) – Sliding Mode Control of Electric Machines
Elena Lomonova (Eindhoven University of Technology) – The New Concepts of the Levitation and Elevation Systems for High-precision Applications
Václav Šmídl (University of West Bohemia) – Predictive Control of Electric Drives: Principles and Applications
Alecksey Anuchin (MPEI) – Traction Electric Drives: problems, solutions, and new opportunities
Alexandr Balkovoi (MPEI) – Precision Mechatronics: from kilowatts to nanometers

Vadim Utkin – Sliding Mode Control of Power Converters
Alecksey Anuchin – $\Delta\Sigma$ -modulated Signals in Electric Drives
Toomas Vaimann – Overview of Machine Diagnostics/Failures
Anton Rassölkin – Design Self-Driving Vehicle ISEAUTO and Infrastructure in Estonia

Preliminary Program

Day 1: Tutorials

Day 2: Workday 1: Topical Issues on Electric Drives

- Keynotes
- Research activities of the Electric Drives Department of MPEI
- Oral & poster sessions
- Gala-dinner

Day 3: Workday 2: Young professionals' day

- Tutorials
- Oral & poster sessions
- Best student paper award & Young professionals' social activity

Day 4: Technical/Cultural program

More information at: <http://iwed.science/>