

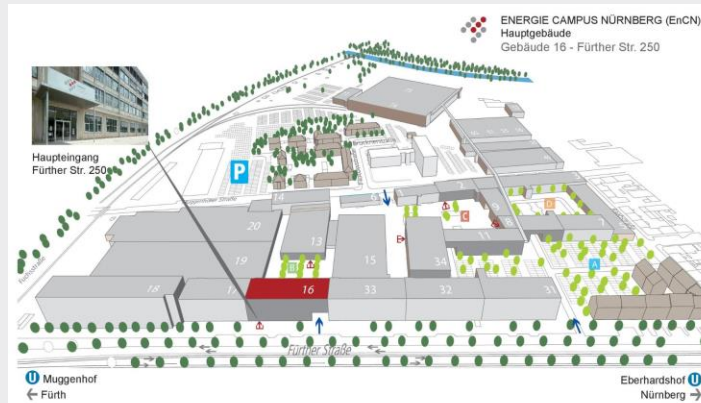
## Participation pays off:

- Free accommodation and catering for the lead authors of accepted papers
- Presentation of your research in front of an audience of technical experts
- Awards for best paper, best presentation and best poster
- Networking among students and with representatives from academia and industry
- Participation in a technical tour



## Conference venue

Energie Campus Nürnberg (EnCN)  
Fürther Str. 250, „Auf AEG“  
90429 Nuremberg  
Germany



## PESS Power and Energy Student Summit 2017

Friedrich-Alexander-University Erlangen-Nuremberg  
June 27–28, 2017



## Supported by:



## Organiser



Institute of Electrical Energy  
Systems

Cauerstr. 4, House No. 1  
91058 Erlangen  
Germany

Contact  
Dr.-Ing. Gert Mehlmann  
gert.mehlmann@fau.de

Visit us at  
[www.ees.eei.uni-erlangen.org](http://www.ees.eei.uni-erlangen.org)



**CALL FOR PAPERS**  
Deadline  
April 15, 2017



## What is the Power and Energy Student Summit?

The Power and Energy Student Summit is a technical conference particularly addressed to students in the field of electrical power engineering. The conference provides an opportunity to gain first experiences in writing and presenting papers in front of a technical audience as well as in taking part in discussions with experts. The conference will be attended and supervised by well-established researchers and experts.

## CALL FOR PAPERS

All bachelor's and master's students who are enrolled in winter semester 2016/17 at a university can submit their technical papers having a length of 4-6 pages. The publications can be based on the results of individual research from either project works or bachelor's or master's theses.

All papers will be reviewed and assessed by a technical committee from research and industry. Authors of accepted publications will be invited to present their work at the Power and Energy Student Summit 2017 either in oral or poster sessions. According to scientific practise, all papers, presentations and posters must be in English. What's more, all invited authors have the chance to win an award for best paper, best presentation and best poster.

Paper submission deadline:

**April 15, 2017**

Templates, paper submission and further information are available at:

[www.ees.eei.fau.de/pess-2017](http://www.ees.eei.fau.de/pess-2017)

## Topics of Interest

Authors are encouraged to submit papers related to the following research areas:



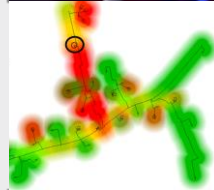
### Renewable Energies

- Photovoltaics
- Wind Power Plants
- Energy Storage Systems
- Microgrids and Virtual Power Plants
- Renewables in Developing Countries



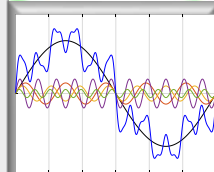
### High Voltage Engineering

- Asset Management
- Electromagnetic Compatibility
- High Voltage Testing
- Insulation Coordination
- Diagnosis and Lifetime Management



### Grid Control and Grid Planning

- Power System Modelling
- Power System Dynamics and Stability
- Neutral Point Treatment
- Wide Area Monitoring and Control
- Steady-State Analysis and System Design



### Power Quality

- Voltage Variations
- AC and DC Filters
- Flicker
- Compensation
- Sub-Synchronous Interaction



### Power System Protection

- Wide Area Protection
- Protection Behaviour During Black Start
- New Protection Strategies and Algorithms
- Adaptive Protection Systems
- Protection Coordination



### HVDC and FACTS

- Converter Topologies
- Basic Design
- Control and Control Interaction
- Multi-Terminal and Hybrid Systems
- Modulation Strategies

Source: TenneT TSO GmbH, Institute of EES



## Nuremberg

as a former imperial city with the famous castle is well-known for its medieval character. The city's history of almost one millennium is characterised by trade, art and handcraft. Not only is the metropolitan region home to famous artists like Veit Stoss, Adam Kraft and Albrecht Duerer, it has also brought forth numerous scientific and technical innovations: the first electrical street lighting, the further development of the dynamo-electric machine, the first German railway line and Ohm's law, just to name a few. In addition, the Energy Campus Nuremberg was established in 2011, where researchers from a wide range of fields are working in areas such as power generation, transmission, distribution and storage in an interdisciplinary way.

Furthermore, Nuremberg is appreciated for its diversity of Franconian beers and delicacies, which include world-renowned Nuremberg sausages (Rostbratwürste) and ginger bread (Lebkuchen).

## The Institute of Electrical Energy Systems



The Institute of Electrical Energy Systems of the Friedrich-Alexander-University Erlangen-Nuremberg aims to contribute in research and teaching to the advancement of sustainable energy systems for the future. In doing so, it counts on practical interdisciplinary cooperation in the national and international environment.