

## Welcome

The Power Electronics Student Summit is a specialist conference in the field of power electronics specifically aimed at master and PhD students. It enables participants to gain initial experience in the preparation, publication and discussion of their own research work in front of a professional audience.

This year's conference consists of an engaging program with paper presentations, a keynote lecture, networking opportunities and social interaction. Prizes will be awarded to participants for the best paper and presentation.

PELSS 2024 is organized by the IEEE Joint IES/IAS/PELS. German chapter in cooperation with the Hochschule Bonn-Rhein-Sieg, University of Applied Sciences (H-BRS), the Fraunhofer Institute of Energy Economics and Energy System Technology (Fraunhofer IEE) and the Young Energy Net. It is supported by CIGRE Germany, VDE ETG, SUMIDA, EGSTON, INFINEON, OPAL-RT, TransnetBW, Freunde und Förderer des IEEE Joint IES/IAS/PELS German Chapter and DERlab.

### **H-BRS**

The Power Electronics and Power System Laboratory (PEPS-Lab) at Bonn-Rhein-Sieg University of Applied Sciences conducts research in the entire field of power electronics for the grid integration of renewable energies, storage systems, electrolyzers and electric vehicles.

### **Fraunhofer IEE**

The Fraunhofer IEE in Kassel research to support the national and international transformation of energy systems. It develops technical and economic solutions in order to further reduce the costs of using renewable energies, secure the supply despite volatile generation, ensure grid stability at the highest level and promote the success of the energy transition business model.

### **IEEE Joint IES/IAS/PELS e.V. German Chapter**

The Chapter Objective is to act as a facilitator in the area of power electronics, control and electric drives in Germany, to promote communication within the German power electronics community and strengthen national and international ties in meetings.