

# The 17<sup>th</sup> Conference

## Control in Power Electronics and Electric Drives - "SENE 2025"

Łódź, November 26-28<sup>th</sup>, 2025

organized since 1993 by

INSTITUTE OF AUTOMATIC CONTROL,  
ŁÓDŹ UNIVERSITY OF TECHNOLOGY

<https://sene.p.lodz.pl/>

The conference covers all topics related to power electronics and electric drives, in particular:

- control methods for drive automation and power electronics,
- elements of control theory, methods of artificial intelligence and computer science inspired by applications in drive systems and power electronics,
- analysis, synthesis, modelling, simulation, and special topics of DC/AC converter drives,
- applications in robotics,
- traction drives and motion control applications,
- electrical machines,
- network control of distributed power systems or multi-drive systems,
- electromagnetic compatibility,
- reactive power compensation and other energy issues,
- redundant power supply,
- innovative applications of power electronics,
- diagnostics and education in the field of power electronics, drives and control,
- components for power electronics systems.

The SENE'25 Program Committee consists of recognized scientists, professors, representing all Polish centers conducting research in the field of power electronics and automation of electric drives.

The Program Committee invites you to submit papers for the SENE'25 conference in two categories:

### • Regular papers

A regular paper presents the results of original research work, following generally accepted standards in the discipline of Automatic Control, Electrical Engineering, and Electronics. **Submitted articles will be reviewed according to the requirements of the editors of the 'Przegląd Elektrotechniczny' journal.**

Subject to an appropriate copyright declaration and positive reviews of the Program Committee, considering changes and additions made by the Authors after the conference, **the paper will be accepted for publication in PE and will appear in one of the first issues of 2026.** The Program Committee maintains contact with the editorial offices of The Archives of Electrical Engineering and The Bulletin of the Polish Academy of Sciences: Technical Sciences, which will accept its recommendations regarding the publication of selected papers as a special section.

### • Short papers – late-breaking results

A short paper describes preliminary research results, hypotheses, or research plans. It should include the title, author information, keywords, abstract, and bibliography. It aims to present an interesting topic, yet unpublished, for discussion at the conference. Following review, each short paper will be included in the conference proceedings and should be presented during the conference.

### Competition for young scientists

The Program Committee will present the traditional prize, sponsored by the IEEE Poland Section, for the best work presented by a young author at SENE'25. The Scientific Committee will select the winner based on, among other factors, reviewers' evaluations, the session chair's assessment, and the recognition of conference participants.

Each submitted paper will be published in the conference proceedings, issued electronically, with an ISBN.

### Expected plenary speakers:

Ryszard Michał Strzelecki, Gdynia Maritime University,

"Evolution of power supply networks supported by the development of power electronics – challenges, problems and solutions"

Ming Cao, University of Groningen,

"Motion Coordination of Teams of Mobile Robots"

Seiichiro Katsura, Keio University,

"Motion-Copying System for Reproduction of Human Motions"

### Planned special sessions:

- Diagnosis of electric drives: the role of artificial intelligence and fault-tolerant strategies.
- High-frequency power electronic converters.
- Advanced Control of Two-Mass Systems – Theory and Applications
- Energy storage - research, perspectives and challenges

Current information can be found on the conference website.

### Registration:

To register for the conference and submit papers, please visit the conference website.

### Deadlines:

- Papers submission by **24.08.2025**
- Preliminary information on paper acceptance **10.09.2025**
- Deadline for submission of revised articles **30.09.2025**
- Conference fee payment by **15.09.2025**

### Place:

The conference is always organized in Łódź.

### Organizing committee:

Jacek Kabziński

jacek.kabzinski @ p.lodz.pl

Rafał Zawislak

rafal.zawislak @ p.lodz.pl

Jarosław Kacerka

jaroslaw.kacerka @ p.lodz.pl

### Address for correspondence:

Any questions should be directed to:

**kosene@info.p.lodz.pl**

SENE 2025 - Politechnika Łódzka, Instytut Automatyki 90-537  
Łódź, ul. B. Stefanowskiego 18, ☎(+48) 42 631 2560

# **The 17th Conference**

## **Control in Power Electronics and Electric Drives - "SENE 2025"**

**Łódź, November 26-28th 2025**

**organized by:**

**Institute of Automatic Control, Lodz University of Technology**

**since 1993**

**under the auspices of the Committees on**

**Electrical Engineering and Automation and Robotics Polish Academy of Sciences**

**with the support of IEEE Polish Section and PTETIS Łódź branch**

**Strategic partner: TRUMPF Huettinger**



**Website and detailed information:**

**<https://sene.p.lodz.pl/>**

