



faculty of electrical
and electronics
engineering

TiFEC



Jaunųjų tyrėjų ir studentų mokslinė
konferencija – TiFEC 2026

Scientific Conference for Young Researchers
and Students – TiFEC 2026

**04 17
2026**

KTU Campus
Library

Registration opens at 9:00 a.m. on 17 April 2026

Conference starts at 9:30 a.m. on 17 April 2026

Presentation time (presentation and questions) – 12 minutes

Venue: University Campus Library, Amphitheatre (Studentų St. 48, 51367 Kaunas)

Chair: dr. Eglė Savickaitė-Kačerauskienė

Programme

Opening of **TiFEC 2026**

Akvilė Danielė

Vice Minister of the Ministry of Transport and Communications of the Republic of Lithuania

Prof. Dr. Mindaugas Žilys

Dean of the Faculty of Electrical and Electronics Engineering, KTU

Invited speaker

Prof. Dr. Edita Gimžauskienė

KTU Vice-Rector for Strategic Partnerships

Where Deep Tech Meets Open Innovation

1. **Rokas Briedis, Dovydas Liutkus** (Supervisors A. Chaziachmetovas, R. Ramanauskas)

Kaunas University of Technology, Faculty of Electrical and Electronics Engineering

Evaluating Open-Source and Commercial Digital ASIC Implementation Flows on an MCU Design in IHP Open PDK

2. **Ernestas Gruodis** (Supervisor A. Chaziachmetovas)

Kaunas University of Technology, Faculty of Electrical and Electronics Engineering

Capacitor Selection in the Design of a SAR ADC Using the IHP Open PDK SG13G2

3. **Manfredas Lamsargis** (Supervisor Š. Packevičius)

Kaunas University of Technology, Faculty of Informatics, Software System Engineering

Verification of Custom Microcontroller Architecture Using Universal Verification Methodology

4. **Eidenis Kasperavičius** (Supervisor D. Navikas)

Kaunas University of Technology, Faculty of Electrical and Electronics Engineering

Secure Grid-Edge Module for Flexible Energy Systems Management



5. Tarık İsa Yıldız (Supervisor D. Andriukaitis)

Kaunas University of Technology, Faculty of Electrical and Electronics Engineering
Multi-Parameter Safety Monitoring for Battery Energy Storage Systems

6. Matas Tamulynas, Vaidas Jankauskas (Supervisor V. Markevičius)

Kaunas University of Technology, Faculty of Electrical and Electronics Engineering
Medium Voltage Transmission Line Measurement System Parameter Evaluation

7. Meda Remeikaitė, Iveta Stončiūtė, Aiva Saldukaitė (Supervisor M. Saunoris)

Kaunas University of Technology, Faculty of Electrical and Electronics Engineering
A Current Measurement Test Bench: From Design to Experimental Validation

8. Mindaugas Zarumskis (Supervisor M. Žilys)

Kaunas University of Technology, Faculty of Electrical and Electronics Engineering
Power-Efficient Edge AI Implementation for Intelligent Motion Detection and Pet Immunity in Battery-Powered Vision Sensors

9. Sandeep Shyam Santhamani Senthilkumar (Supervisor R. Urniežius)

Kaunas University of Technology, Faculty of Electrical and Electronics Engineering
Development and Investigation of a Control System for Motor Stator Winding Bench

10. Vaiva Paškevičiūtė (Supervisor V. Raudonis)

Kaunas University of Technology, Faculty of Electrical and Electronics Engineering
Deep Learning-based Segmentation of Healthy Skin Regions Using YOLOv12 Architectures

12:00–12:15 Break

11. Khakim Bizhan (Supervisors A. Lipnickas, R. Urniežius)

Kaunas University of Technology, Faculty of Electrical and Electronics Engineering
Design of a System for Automated Image Bracketing and Stacking

12. Augustin Averkin (Supervisor V. Baranauskas)

Kaunas University of Technology, Faculty of Electrical and Electronics Engineering
Research and Development of a Methodology for Intuitive Robot Programming Using Large Language Models



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13. **Eshada Jasper** (Supervisor M. Lendraitis)

Kaunas University of Technology, Faculty of Mechanical Engineering and Design

Feasibility Study of 3D-Printed Strain Gauges Using Conductive Filaments

14. **Azeez Ur Rahman** (Supervisor G. Denafas)

Kaunas University of Technology, Faculty of Mechanical Engineering and Design

Environmental Impact of Textile Waste Combustion and Its Potential for Thermal Energy Production

15. **Umme Aimon, Md. Mahedi Habib Chowdhury, Methela Mostafa, Shahariar Chowdhory**

Kaunas University of Technology, Faculty of Electrical and Electronics Engineering

University of St. Thomas, Faculty of Electrical and Computer Engineering

Chittagong University of Engineering & Technology, Faculty of Electrical and Computer Engineering

University of Dhaka, Faculty of Science

Frequency and Voltage Dynamics of a Droop-Controlled Grid-Forming Inverter under Load Transients and Fault Conditions in Islanded Microgrids

13:15–13:45 Coffee break

13:45–14:00 Best papers awards



RCL

Research Council of Lithuania



MINISTRY OF EDUCATION,
SCIENCE AND SPORT
OF THE REPUBLIC OF LITHUANIA

TiFEC

The project “Excellence Center of Technological and Physical Sciences (TiFEC)” is funded by the Lithuanian Science Council and the Ministry of Education, Science and Sport of the Republic of Lithuania through the state budget under the programme “University Excellence Initiative”.