

Session Program

10-13 Sept 2024

**Computational Problems of Electrical
Engineering 2024**

Session 5 - Poster Session A

Holimo Hotel
Stara Morawa 11a, 57-550 Stronie Śląskie

Thursday 12 September

11:00

Session 5 - Poster Session A

Session | **Location:** Holimo Hotel, Stara Morawa 11a, 57-550 Stronie Śląskie | **Conveners:** Zuzanna Krawczyk-Borysiak, Dr Bartek Chaber

11:00-11:20

ANALYSIS OF THE INFLUENCE OF THE LOCATION OF HOLES IN BRICKS ON THE ELECTRIC FIELD INTENSITY

Speaker

Agnieszka Choroszucho

11:00-11:20

ANALYTICAL AND NUMERICAL EVALUATION OF THE EFFICIENCY OF A LOW POWER WPT SYSTEM

Speaker

Jacek Maciej Stankiewicz

11:00-11:20

Improving wrong labeled time series classification for electrical machines faults detection

Speaker

Mr Robert Szmurło

11:00-11:20

Cloze tests generation for foreign language learning using transformer networks

Speaker

Robert Szmurło

11:20-11:40

Mathematical model of an induction motor with consideration of current displacement in rotor bars using Matlab/Simulink

Speaker

Orest Hamola

11:20-11:40

Research on the Efficiency of Parallel Computations in Relaxation Methods for the Analysis of Dynamic Systems

Speaker

Prof. Serhiy Rendziniak

11:20-11:40

Modeling and study of the reactive power consumption mode of an arc furnace

Speaker

Oksana Hoholyuk

11:20-11:40

Methods and algorithms for analyzing of steady-state modes and characteristics of the wound rotor induction motor

Speaker

Ivanna Vasylchyshyn

11:40–12:00

Design of reconfigurable circular polarization equilateral triangular antenna without and with air gap**Speaker**

Pavel Karban

11:40–12:00

Optimization of Susceptor Induction Heating for Generation of Hot Gas**Speaker**

Václav Kotlan

11:40–12:00

Interactive visualization of robotic devices and the data provided by them in an augmented reality environment**Speaker**

Jakub Racek

11:40–12:00

CUDA PIC/MCC implementation in Julia programming language**Speaker**

Wiktor Łodyga

12:00–12:20

Application of neural networks to the identification of artificial defects using sweep-frequency eddy current testing**Speaker**

Milan Smetana

12:00–12:20

Numerical simulation of the human eye exposition to high-frequency electromagnetic field**Speaker**

Mrs Zuzana Psenakova

12:00–12:20

Numerical simulation of ceramic material extrusion**Speakers**

Dr Karel Slobodnik, Lenka Sroubova

12:00–12:20

Investigation of artificial defects of BSCC heart valves using radiographic computational methods**Speaker**

Milan Smetana

12:00–12:20

Measurement and Simulation of Radiofrequency Electromagnetic Field Exposure of a Tissue Phantom with an Implanted Pacemaker Device**Speaker**

Mariana Benova

12:30