

Monday 11 September

10:00

Computational Intelligence in Engineering: Computational Intelligence in Engineering (4)

Session | Location: Chłodna 16, 33-330 Grybów | Convener: Oksana Hoholyuk

10:00-10:20

Relabeling the imperfect labeled data to improve recognition of face images using CNN

Speaker

Dr Robert Szmurło

10:20-10:40

Application of Mask R-CNN Algorithm for Apple Detection and Semantic Segmentation

Speaker

Mr Maciej Jurewicz

10:40-11:00

Implementation of Convolutional Neural Network for Artifact Removal from EEG Signals

Speaker

Marcin Jurczak

11:00-11:20

Monocular depth estimations for UAV and high voltage power lines inspection

Speakei

Katarzyna Sikorska-Łukasiewicz

11:20

11:40

Computational Intelligence in Engineering: Computational Intelligence in Engineering (4)

Session | Location: Chłodna 16, 33-330 Grybów | Convener: Pavel Karban

11:40-12:00

Comparative Analysis of Independent Component Analysis, Linear Regression and Adaptive Filtering for Artifact Removal in SSVEP Registration

Speaker

Marcin Jurczak

12:00-12:20

Impact of Signal Features on Machine Learning-Based Tool Condition Classification in the Milling Chipboard Process

Speaker

Prof. Jarosław Kurek

12:20-12:40

A Novel Approach using Vision Transformers (VIT) for Classification of Holes Drilled in Melamine Faced Chipboard

Speaker

Prof. Jarosław Kurek

12:40-13:00 Teaching Maxwell Equations with LLM Assistance

Speaker

Bartosz Sawicki

13:00 14:20

Computational Intelligence in Engineering: Computational Intelligence in Engineering (3)

Session | Location: Chłodna 16, 33-330 Grybów | Convener: Ladislav Janousek

14:20-14:40

Dynamics of the Learning Process of a Multilayer Neural Network when using the **AdaDelta Optimization Method**

Speaker

Dr Ivan Katerynchuk

14:40-15:00 Specialized game computer system based on Arduino Uno

Speakers

Halyna Klym, Mr Vladyslav Shevchuk

15:00-15:20

Smart indoor air quality monitoring system: implementation and analysis

Speakers

Mr Ivan Rudavskyi, Halyna Klym

15:20