

Conference Plan

Thursday 14.05

16:00 - 19:00	Participants registration
19:30 - ...	Banquet - welcome party

Friday 15.05

8:30 - 9:30	Breakfast
9:45 - 11:00	Opening and Invited session
11:00 - 11:15	Coffee break
11:15 - 12:15	Oral session 1
12:15 - 12:30	Coffee break
12:30 - 13:30	Oral session 2
14:00 - 15:30	Lunch
15:40 - 17:00	Special session
17:00 - 17:15	Coffee break
17:15 - 18:15	Poster session 1
18:15 - 19:15	Poster session 2
20:00 - ...	Banquet

Saturday 16.05

8:30 - 9:30	Breakfast
10:00 - 11:00	Oral session 3
11:00 - 11:15	Coffee break
11:15 - 12:15	Oral session 4
12:15 - 12:30	Coffee break
12:30 - 13:30	Invited Session
14:00 - 15:30	Lunch
15:30 - ...	Local trip

Sunday 17.05

8:30 - 9:30	Breakfast
10:00 - 11:00	Oral session 5
11:00 - 11:15	Coffee break
11:15 - 12:15	Oral session 6
12:15 - 12:30	Coffee break
12:30 - 13:00	Closing Ceremony
13:30 - 15:30	Lunch

Detailed Conference Plan

Friday 15.05 10:00 - 11:00

Invited Session 1

OZ1_1	Andrzej Demenko	Network model of 3D regions with electromagnetic field
OZ1_2	Hartmut Brauer and Hannes Toepfer	Computational Engineering: A Challenge for Interdisciplinary Engineering Education

Friday 15.05 11:15 - 12:15

Oral Session 1

Modelling, Identification, Simulation and Signal Processing

O1_1	Arnold Kalvach and Zsolt Szabó	Isotropy analysis of metamaterials
O1_2	Maciej Burak	Inhomogeneous CTMC Model of a Telephone Call Center with Abandonment
O1_3	Tomasz Rymarczyk, Paweł Rymarczyk and Jan Sikora	Modelling and Simulation of EIT Flood Embankment System

Friday 15.05 12:30 - 13:30

Oral Session 2

Computer Science

O2_1	Artur Krupa and Bartosz Sawicki	Massive simulations using MapReduce model
O2_2	Anna Burek and Maciej Borówka	Algorithms of incentive in IT companies
O2_3	Hela Garbaa, Lidia Jackowska-Strumillo, Krzysztof Grudzien and Andrzej Romanowski	Application of Electrical Capacitance Tomography and Artificial Neural Network to rapid estimation of cylindrical shape parameters of industrial flow structure

Friday 15.05 15:40 - 17:00

Commercial Session

CS_1	Tomasz Krupicz (COMSOL Multiphysics)	Comsol Multiphysics
CS_2	Marta Hajdasz (ABB Sp. z o.o.)	Welcome to ABB
CS_3	Piotr Lipnicki (ABB Sp. z o.o.)	Modern Diagnostics for Industry

Saturday 16.05 10:00 - 11:00

Oral Session 3

Mechanical, Civil Engineering and Environmental Protection

O3_1	Karol Duda and Przemysław Adamkiewicz	Flood embankments monitoring system model with use of electrical impedance tomography
O3_2	Paweł Niewiadomski	Effect of addition of selected nanoparticles on parameters of concrete mix and hardened self-compacting concrete
O3_3	Jakub Szumowski and Przemysław Adamkiewicz	Prototype of an electrical capacitance tomography system using a capacitance-to-digital converter

Saturday 16.05 11:15 - 12:15

Oral Session 4

Bioengineering

O4_1	Agnieszka Piekarska	Application of electroporation in medicine and cosmetics
O4_2	Jiří Chytil, Martin Jakube and Jiří Sliž	The development of universal impedance spectroscopy for use in food industry
O4_3	Pavel Křepelka	D-shaped optical fiber and its application

Saturday 16.05 12:30 - 13:30

Invited Session 2

OZ2_1	Fumiaki Mitsugi	Application of optical wave microphone
OZ2_2	Pavel Fiala, Dusan Nespor and Petr Drexler	Numerical model of a large periodic structure

Sunday 17.05 10:00 - 11:00

Oral Session 5

Electrical Engineering

O5_1	Gergely Mészáros and Tibor Bercei	Harmonics Suppression of Microwave Oscillators
O5_2	Konstantin Weise, Matthias Carlstedt, Marek Ziolkowski and Hartmut Brauer	Lorentz Force Eddy Current Testing: Theory and Simulation
O5_3	Tamás Pető	Multichannel Passive Radar Receiver Platform

Sunday 17.05 11:15 - 12:15

Oral Session 6

Electrical Engineering

O6_1	Adam Lukomski	Limiting Input Signals During Nonlinear Control of a Humanoid Robot
O6_2	Vladimir Chudacik and Milan Smetana	Tilt-Shift Eddy Current Probe Impact on Information Value of Response Signal
O6_3	Zoltán Szalay and Lajos Nagy	Measurement of Thin-Film Thickness by Coaxial Resonator

P1_1	Ayoub Saoud, Volodymyr Mosorov and Krzysztof Grudzien	Flow swirl measurement using Electrical capacitance tomography
P1_2	Daniel Olchowy and Łukasz Gołąbek	Prototype of Measurement System in Electrical Impedance Tomography
P1_3	Diana Olejnik and Paweł Frankowski	Wireless Control of a Measuring Robot Designed for the Tracking and Evaluation Rebars in Concrete Structures
P1_4	Eliška Vlachová Hutová, Petr Marcoň and Karel Bartušek	Effect of high voltage on the development of the plant tissue
P1_5	Tomoya Abiru, Fumiaki Mistugi, Tomoaki Ikegami, Kenji Ebihara and Shin-Ichi Aoki	Environmental application of electrical discharge for ozone treatment of soil
P1_6	Piotr Graca and Bronisław Tomczuk	Active Axial Magnetic Bearing Prototype Field Calculation
P1_7	Maciej Borówka	Active EEG electrodes design and simulation – introduction
P1_8	Maciej Gniadek	Adaptive input shaping algorithm
P1_9	Marcin Maciejewski	Feature extraction in noisy ECG signals processing
P1_10	Norbert Rosman and Barbara Szymanik	Objects' classification in infrared based landmine detection
P1_11	Paweł Prokop	Using of the Chan-vede method of image segmentation using non-linear function approximated by sections
P1_12	Paweł Tchórzewski	Adjoint equation in electrical impedance tomography
P1_13	Piotr Gas	The Optimal Microwave Hyperthermia Treatment Based on the Operating Characteristics of the Multi-Slot Coaxial Antenna
P1_14	Piotr Trubiłowicz	From Images Metadata toward Ontology of Images
P1_15	Przemysław Wróblewski	Optimization of MPI measurements simulation
P1_16	Tomasz Halagan	Interdomain NFV Federation
P1_17	Tomasz Zinko, Paulina Pianko-Oprych and Zdzisław Jaworski	Three-dimensional modelling of thermal stresses in a planar Solid Oxide Fuel Cell of a novel design

P2_1	Adam Ryszard Żywica	Magnetoacoustic Tomography with Magnetic Induction for Noninvasive Imaging of Low Conductivity Objects
P2_2	Agnieszka Gdula	The use of statistical methods for segmentation of dental x-ray images
P2_3	Martin Valla	DNA analysis using Hartree Fock methods
P2_4	Jacek Grochowalski and Zbigniew Frąckiewicz	Design Problems of High Power Static Voltage Source for Isolated Power Grids in Shipbuilding and Maritime Industry
P2_5	Jacek Kryszyn	FPGA-based Electric Field Solver for Electrical Capacitance Tomography
P2_6	Katarzyna Biernat and Waldemar Kozłowski	Autonomous Electric Vehicle Charging Station
P2_7	Konrad Niderla and Przemysław Adamkiewicz	A fuzzy logic based temperature control system for the biogas digester
P2_8	Leszek Wolski	High frequency DC/DC converter based on SiC Transistors for RES application
P2_9	Maciej Gniadek	Interaction of input shaping and LQR controller
P2_10	Maciej Panczyk, Beata Panczyk and Jan Sikora	Selected problems of wall dampness tomographic measurements
P2_11	Michał Jurcisin, Stanisław Słosarcik and Peter Balog	Possibilities of heat dissipation from electronic structures
P2_12	Nadzeja Viktorovich	Energy saving performance analysis of polygeneration of heat, cooling and power
P2_13	Paweł Frankowski	Multi-Frequency Eddy Current Method for Phase Based Inspection of Steel Bars in Reinforcement Concrete Structures
P2_14	Rafał Piotuch, Ryszard Pałka and Kamil Tarenko	Genetic algorithm based PMSM optimization
P2_15	Rafał Borowiec and Wojciech Surtel	Construction of a terminal device to examine the state of human activity
P2_16	Roman Hajtmanek	Robust models for uniform workload distribution problem
P2_17	Włodzimierz Kruczek	Practical ability to control electrical static converter valves according to patent PL168286
P2_18	Wojciech Matelski	Low power DC/DC converter from 3 kV to 300 V: simulation analysis