

Category: B1 – Biomedical Engineering

Room: SD4.111

Chairman: doc. Mgr. Dinara Sobola, Ph.D.

Vice-chairman: Mgr. Bc. Darina Čejková, Ph.D.

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Committee members: Ing. Nikola Papež, Ph.D.

Ing. Lukáš Smital, Ph.D.

Ing. Martin Králík

Rank	Authors	Title
1.	Ladislav Duraja	Real-Time Detection and Visualization of the Superficial Venous System
2.	Veronika Šromová, Dinara Sobola	Development of an Optimized Workflow for the Fabrication and Quantitative Analysis of Microstructured Bio-Substrates
3.	Helena Géryková, Radovan Smíšek	Analysis of High-Frequency Components of the P Wave

Category: B2 – Communication, Networks and Security

Room: SC5.35

Chairman: doc. Ing. Zdeněk Martinásek, Ph.D.

Vice-chairman: doc. Ing. Jaroslav Sklenář, CSc.

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Committee members: Ing. Willi Lazarov

Ing. Dinh Thao Le

Matěj Podaný (ŠKODA AUTO, a.s.)

Rank	Authors	Title
1.	Vojtech Smejkal	Opportunistic Rainfall Detection Using Microwave Backhaul Links of Regional ISPs
2.	Vojtěch Krehan, David Kuřátko, Ondřej Jaroš	Reflector Dipole Antenna for Secondary Radar Band
3.	Katarína Kúdelová, Willi Lazarov, Jakub Vostoupal	Online Radicalisation and Extremism: An Integrated OSINT and Legal Analysis

Category: B3 – Electrical Energy Systems and Power Engineering

Room: SA4.37

Chairman: Mgr. Jiří Šperka, Ph.D.

Vice-chairman: doc. Ing. Ilona Lázníčková, Ph.D.

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Pavel Lekeš (Honeywell, s.r.o.)

Josef Černohous (ABB s.r.o.)

Libor Gajdoš (Honeywell, s.r.o.)

Rank	Authors	Title
1.	Jan Kalina, Michal Ptáček	Centralized Dispatch of Photovoltaic Plants, AVEVA Implementation and Operating Data Analysis
2.	Tomáš Rojík, Jan Koudelka	Feed-Forward Curves Calculation for a Control Valve and Circulation Pump Performance Improvement During Ancillary Services Provision
3.	Dominik Heral, Martin Světlík	Finite Element Analysis of Magnetic Fields in a High-Voltage Synchronous Machine

Category: B4 – Automation, Modelling and Intelligent Systems

Room: SD3.102

Chairman: doc. Ing. Miroslav Jirgl, Ph.D.

Vice-chairman: doc. Ing. Václav Jirsík, CSc.

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Zdenek Padera (Honeywell, s.r.o.)

Tomáš Kozel (ABB s.r.o.)

Rank	Authors	Title
1.	Marek Ďurďa, Šimon Sloboda	Simple Active Attitude Determination and Control System for Cubesat
2.	Filip Majchrák, Jakub Arm	Web-Based 3D Simulator for Industrial Automation Processes
3.	Vojtěch Kropáč, Dominik Říčánek	Prediction of contamination level in a water treatment plant using neural networks

Category: B5 – Measurement, Signal Processing and Embedded Applications

Room: SD6.76

Chairman: doc. Ing. Tomáš Frýza, Ph.D.

Vice-chairman: prof. Ing. Milan Sigmund, CSc.

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Vojtěch Míček (Thermo Fisher Scientific Brno s.r.o.)

Luděk Žaloudek (NXP Semiconductors Czech Republic s.r.o.)

Rank	Authors	Title
1.	Dominik Chalupka, Ladislav Polák	Litemate: An Assistive Tool for Video Image Color Correction
2.	Jakub Šťastný, Karel Juřík	A Compact RF Power Meter with 40 dB Dynamic Range from DC to 4 GHz
3.	Martin Zatloukal, Jan Kufa	Temperature-Controlled Chamber for Comparing Temperature Sensors

Category: M1 – Biomedical Engineering

Room: SE4.166

Chairman: Ing. Helena Vítková, Ph.D.

Vice-chairman: Ing. Andrea Němcová, Ph.D.

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MUDr. Ing. Richard Ředina

Petr Walek (Thermo Fisher Scientific Brno s.r.o.)

Rank	Authors	Title
1.	Adéla Fialová , Karel Sedlář	Functional Profiling of Bacterial Genomes Using Constrained Ordination and Dimensionality Reduction
2.	Borys Aleksandrenko , Martin Súkeník, Karel Sedlář	Hardware and Software Augmentation of Bioreactors for Culturing Bacteria
3.	Dominika Kubová , Martin Králík, Martin Mézl	Interactive rehabilitation device for hand and wrist

Category: M2 – Signal Processing, Communication and Intelligent Sensing

Room: SC3.62

Chairman: doc. Ing. Jan Mikulka, Ph.D.

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Jiří Syrový (Honeywell, s.r.o.)

Jiří Macků (Renesas Design Czech s.r.o.)

Rank	Authors	Title
1.	Matej Grega	Design of a Pulsed Laser Diode Driver for Optical Fiber Sensor Measurement
2.	Miloslav Kužela, Tomáš Frýza	Augmented reality for assisted testing of radar sensors
3.	Yonatan Tekle Agafari, Petr Kriz	Classification of Normal and Anomalous Air Using BME688 Sensor Data

Category: M3 – Embedded Systems, Space Electronics and Secure Hardware

Room: SE6.121

Chairman: prof. Ing. Jaroslav Boušek, CSc.

Vice-chairman: prof. Ing. et Ing. Fabian Khateb, Ph.D. et Ph.D.

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Bohumil Janík (Renesas Design Czech s.r.o.)

Jan Těšitel (E.ON Česká republika, s.r.o.)

Rank	Authors	Title
1.	Martin Kopka	Adaptive Digital Control Techniques for Wide-Range Efficiency Optimization in a Buck Converter
2.	Tomáš Paulysko, Jiří Veverka	DESIGN OF MIBICO PAYLOAD CONTROLLER FOR THE CIMER MISSION
3.	Jan Bažil	Spacecraft electrical passivation switch providing a physical gap on the power line

Category: M4 – Electrical Energy Systems and Diagnostics

Room: SA7.10

Chairman: Ing. Michal Ptáček, Ph.D.

Vice-chairman: Ing. Jan Koudelka, Ph.D.

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doc. Ing. Jiří Vaněk, Ph.D.

Václav Krutil (ABB s.r.o.)

Rank	Authors	Title
1.	Jan Jilčík	Comparative Study on the Electrochemical Performance of Lead Foil in Different Electrolytes for Sodium-Ion Batteries
2.	Martin Poul	Apparent Power Time Aggregation Algorithms
3.	Martin Kysel'	Compact Redesign and Safety Upgrade of a Bidirectional Power Supply for Flexible Automotive Testing

Category: M5 – Power Electronics, Electrical Machines and Thermal Analysis

Room: SC4.81

Chairman: doc. Pavel Vorel, Ph.D

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Vladimír Guřas (ABB s.r.o.)

Dušan Benda (Thermo Fisher Scientific Brno s.r.o.)

Rank	Authors	Title
1.	Jan Gadas	Modular High-Power Electronic Load
2.	Hernan Alonso Bravo Urrea	Influence of Rotor Flux Barrier Geometry on Torque Ripple in a Synchronous Reluctance Motor for Electric Vehicle Applications
3.	Radim Vancl, Michal Husák	Thermal System Modeling and Validation

Category: M6 – Intelligent Systems and Cybersecurity

Room: SC7.53

Chairman: doc. Ing. Jan Jeřábek, Ph.D.

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Ing. Filip Wagner

Zdeněk Záděra (NXP Semiconductors Czech Republic s.r.o.)

Rank	Authors	Title
1.	Róbert Ruman , Viet Anh Phan	Design and Implementation of a Framework for Automatic Generation of Attack Graphs Using Open Sources
2.	Jan Havlín , Adam Fridrich, Tomáš Lieskovan, Patrik Dobiáš, Jan Hajný	Post-Quantum Encryption on FPGA Platform: Czech-Estonian Pilot
3.	Jiří Hrachovina , Sara Ricci	Post-Quantum Migration of the EST Protocol: Evaluation on Constrained Microcontrollers

Category: D1 – Biomedical Engineering

Room: SE4.166

Chairman: Ing. Jiří Chmelík, Ph.D.

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Ing. Pavel Kaspar, Ph.D.

doc. Mgr. et Mgr. Rashid Dallaev, Ph.D.

Rank	Authors	Title
1.	Inna Zumberg, Johannes Jun Wei Low, Anna Taubenberger, Vratislav Cmiel	A PDMS stopper-based cell migration assay as an alternative to the Scratch assay
2.	Romana Ščotková, Matyáš Dostálík, Zdenka Fohlerová	Electroactive Double-Layer Janus Biohybrid Hydrogel for Cardiac Tissue Engineering
3.	Kateřina Krejčí, Michal Nohel, Jiří Chmelík, Roman Jakubíček, Jan Valošek	Segmentation of Cervical Spinal Rootlets in MRI Scans of Patients with Cord Compression

Category: D2 – Audio, Speech and Language Processing

Room: SE6.121

Chairman: Ing. Jiří Přinosil, Ph.D.

Vice-chairman: Ing. Martin Jonák, Ph.D.

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Ing. Jan Dorazil, Ph.D.

Rank	Authors	Title
1.	Michal Švento	Audio Inpainting with Endless Sounds
2.	David Leitgeb	Gray-Box Modeling of Flanger Effect
3.	Matej Liska	Defect-Aware Approach to Validation of MEMS Microphones in Spherical Arrays

Category: D3 – Communication, Networked Systems and IoT

Room: SC3.62

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Rank	Authors	Title
1.	Pavel Palurik , Antonin Cerny, Juraj Goryl, Dmitri Moltchanov, Thao Dinh Le, Radim Dvorak, Pavel Masek, Petr Cika, Zdenek Hadas	Design and Implementation of a Modular IoT Gateway for Heterogeneous Networks
2.	Martin Kousal , Roman Maršálek	Cognitive Radio implementation using GNU Radio
3.	Radim Dvořák , Pavel Paluřík, Thao Le Dinh, Dmitri Moltchanov	The Impact of Over-the-Air Updates on Cellular IoT Systems Performance

Category: D4 – Cybersecurity, Cryptography and Secure Hardware

Room: SC7.53

Chairman: doc. Ing. Radek Fujdiak, Ph.D.

Vice-chairman: doc. Ing. Lukáš Malina, Ph.D.

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Ing. David Kohout

Jan Churý (E.ON Česká republika, s.r.o.)

Rank	Authors	Title
1.	Viet Anh Phan , Jan Jerabek	ML-Driven Real-Time In-Network Anomaly Detection on P4-Programmable Switches
2.	Willi Lazarov , Roman Klampar, Zdenek Martinasek	Interactive Graph-based Environment for Open Source Intelligence
3.	Patrik Dobiáš , Lukas Malina	Message Recovery Attack on ML-KEM

Category: D5 – Microelectronics, Sensors and Measurement Hardware

Room: SA4.37

Chairman: doc. Ing. Jiří Háze, Ph.D.

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Ing. Ondřej Gotfrýd, Ph.D. (Garrett Motion Czech Republic s.r.o.)

Rank	Authors	Title
1.	Karolína Fůsková	Emission optical spectrometry of plasma
2.	Jan Schilhab, Alexandr Matějka, Petr Mrázek, Adam Šlechta	A Novel Self-Biased Current Reference for Ultra Low-Voltage Operation in 22 nm CMOS
3.	Alexandr Matějka, Jan Schilhab, Adam Šlechta, Petr Mrázek	Low Voltage Low Noise Amplifier Design for an Ultrasonic Receiver in Automotive Applications

Category: D6 – Power Electronics, Electrical Machines and Advanced Materials

Room: SA7.10

Chairman: prof. Ing. Tomáš Kazda, Ph.D.

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Ing. Petr Chmelíček, Ph.D. (Garrett Motion Czech Republic s.r.o.)

Ing. Vojtěch Vetiška (Garrett Motion Czech Republic s.r.o.)

Rank	Authors	Title
1.	Antonín Šimek, Jaromír Kotlán, Ondřej Čech, David Trochta, Pavel Čudek, Tomáš Kazda	Preparation of hard carbon derived from waste biomass for use in sodium-ion batteries
2.	Jiří Báňa, David Trochta, Tomáš Kazda	Design and Optimization of a Pre-treatment Line for Li-ion Battery Recycling
3.	Jaromír Jarušek, Imrich Gablech	Fabrication of electrically conductive thick films using masked stereolithography

Category: D7 – Automation, Control and System Modelling

Room: SD3.102

Chairman: doc. Ing. Václav Kaczmarczyk, Ph.D.

Vice-chairman: doc. Ing. Zdeněk Bradáč, Ph.D.

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Tomáš Mendl (E.ON Česká republika, s.r.o.)**

Rank	Authors	Title
1.	Marek Sedlařík	Development of a Reduced Order Thermal Model for Real-Time Lithium-ion Battery Storage Simulation
2.	Miroslav Kozumplík	Semi-Automated Parameter Identification and Rapid Control Prototyping of a DC Motor Drive Using an STM32 Microcontroller
3.	Vít Šimeček	Fatigue Life Analysis Methods for Vibration Shakers

Category: D8 – Robotics, UAVs and Intelligent Image Processing

Room: SC4.81

Chairman: doc. Ing. Petr Marcoň, Ph.D.

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Lukáš Malý (Thermo Fisher Scientific Brno s.r.o.)

Rank	Authors	Title
1.	Jan Čtvrtníček	Comparative Analysis of Fitness Functions in Coverage Path Planning
2.	Stepan Jezek, Daniel Duraj, Radim Burget	Zero-Shot Traffic Accident Detection in Urban Surveillance Video Using Large Vision-Language Models
3.	Miloš Cihlář, Stanislav Svědih	Orpheus XAI: Autonomous Navigation and Immersive VR Telepresence for a Military-Grade Unmanned Ground Vehicle

Category: SS – Interdisciplinary Student Projects

Room: SD4.111

Chairman: doc. Ing. Jan Bárta, Ph.D.

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Tomáš Pokorný (VALEO AUTOKLIMATIZACE k.s.)**

Rank	Authors	Title
1.	Simona Havelkova, Willi Lazarov	Systematic Evaluation of Static Application Security Testing Tools
2.	Jan Buchta	Signals from PVDF piezoelectric sensors measured by oscilloscope and ESP-32
3.	František Vaněk, Jiří Kratochvíla	Implementation of Microvascular Architecture Estimation Using Magnetic Resonance Imaging



Category	Authors	Title	Sponsor
B2 – Communication, Networks and Security	Vojtěch Krehan, David Kuřátko, Ondřej Jaroš	Reflector Dipole Antenna for Secondary Radar Band	ŠKODA AUTO, a.s.
B3 – Electrical Energy Systems and Power Engineering	Jan Kalina, Michal Ptáček	Centralized Dispatch of Photovoltaic Plants, AVEVA Implementation and Operating Data Analysis	Honeywell, spol. s r.o.
B3 – Electrical Energy Systems and Power Engineering	Šimon Karady	Analysis of energy balance of agricultural companies	Honeywell, spol. s r.o.
B3 – Electrical Energy Systems and Power Engineering	Dominik Heral, Martin Světlík	Finite Element Analysis of Magnetic Fields in a High-Voltage Synchronous Machine	ABB s.r.o.
B3 – Electrical Energy Systems and Power Engineering	Aleš Neterda	Detection and Analysis of Partial Discharges Using the PDCOM and MDC605 Devices	ABB s.r.o.
B4 – Automation, Modelling and Intelligent Systems	Adrián Mičko, Silvestr Vaculovič	From Dialogue to Actions: PLC Control using Large Language Models	ABB s.r.o.
B4 – Automation, Modelling and Intelligent Systems	Daniel Dušek	Industrial Production Process Simulator APS	ABB s.r.o.
B4 – Automation, Modelling and Intelligent Systems	Marek Ďurďa, Šimon Sloboda	Simple Active Attitude Determination and Control System for Cubesat	Honeywell, spol. s r.o.
B5 – Measurement, Signal Processing and Embedded Ap	Dominik Chalupka, Ladislav Polák	Litemate: An Assistive Tool for Video Image Color Correction	NXP Semiconductors Czech Republic s.r.o.
B5 – Measurement, Signal Processing and Embedded Ap	Jakub Šťastný, Karel Juřík	A Compact RF Power Meter with 40 dB Dynamic Range from DC to 4 GHz	NXP Semiconductors Czech Republic s.r.o.
B5 – Measurement, Signal Processing and Embedded Ap	Hana Štěrbová	Design and implementation of a Universal Logic Analyzer and Data Logger	NXP Semiconductors Czech Republic s.r.o.
M1 – Biomedical Engineering	Lukáš Rišian, Roman Jakubiček	Analysis of Multiple Myelomas in Dual-Energy CT-Based Vertebral Data	Thermo Fisher Scientific Brno s.r.o.
M2 – Signal Processing, Communication and Intelligent Se	Filip Ferko	Comparison of Object Detection Models for Unmanned Aerial Systems	Honeywell, spol. s r.o.
M3 – Embedded Systems, Space Electronics and Secure	Tomáš Paulysko, Jiří Veverka	DESIGN OF MIBICO PAYLOAD CONTROLLER FOR THE CIMER MISSION	NXP Semiconductors Czech Republic s.r.o.
M3 – Embedded Systems, Space Electronics and Secure	Jan Bažil	Spacecraft electrical passivation switch providing a physical gap on the power line	Honeywell, spol. s r.o.; NXP Semiconductors Czech Republic s.r.o.
M3 – Embedded Systems, Space Electronics and Secure	Martin Kopka	Adaptive Digital Control Techniques for Wide-Range Efficiency Optimization in a Buck Converter	NXP Semiconductors Czech Republic s.r.o.
M4 – Electrical Energy Systems and Diagnostics	Ivan Lipták, Kamil Jaššo	Modernization of a Legacy Photovoltaic System via IoT Integration	ABB s.r.o.
M4 – Electrical Energy Systems and Diagnostics	Petr Tlustoš, Václav Kaczmarczyk	Software Platform for Home Energy Management Devices	ABB s.r.o.
M5 – Power Electronics, Electrical Machines and Thermal	Marek Karlicek	Advanced Topologies of Drivers for Piezoelectric Actuators: Comparative Analysis of Linear and GaN Switched Amplifiers	Thermo Fisher Scientific Brno s.r.o.
M5 – Power Electronics, Electrical Machines and Thermal	Hernan Alonso Bravo Urrea	Influence of Rotor Flux Barrier Geometry on Torque Ripple in a Synchronous Reluctance Motor for Electric Vehicle Applications	ABB s.r.o.
M5 – Power Electronics, Electrical Machines and Thermal	Jan Gadas	Modular High-Power Electronic Load	ABB s.r.o.
M6 – Intelligent Systems and Cybersecurity	Róbert Ruman, Viet Anh Phan	Design and Implementation of a Framework for Automatic Generation of Attack Graphs Using Open Sources	NXP Semiconductors Czech Republic s.r.o.
M6 – Intelligent Systems and Cybersecurity	Jan Havlín, Adam Fridrich, Tomáš Lieskovan, Patrik Dobiáš, Jan Hajný	Post-Quantum Encryption on FPGA Platform: Czech-Estonian Pilot	NXP Semiconductors Czech Republic s.r.o.
M6 – Intelligent Systems and Cybersecurity	Jiří Hrachovina, Sara Ricci	Post-Quantum Migration of the EST Protocol: Evaluation on Constrained Microcontrollers	NXP Semiconductors Czech Republic s.r.o.
D3 – Communication, Networked Systems and IoT	Pavel Palurik, Antonín Cerný, Juraj Goryl, Dmitri Moltchanov, Thao Dinh Le, Radim Dvorak, Pavel Masek, Petr Cika, Zdenek Hadas	Design and Implementation of a Modular IoT Gateway for Heterogeneous Networks	Renesas Design Czech s.r.o.
D5 – Microelectronics, Sensors and Measurement Hardwa	Matěj Turinský	Analog front-end for synchronous high-speed partial discharge monitoring system	ABB s.r.o.
D5 – Microelectronics, Sensors and Measurement Hardwa	Karolína Fůsková	Emission optical spectrometry of plasma	ABB s.r.o.
D6 – Power Electronics, Electrical Machines and Advance	Antonín Šimek, Jaromír Kotlán, Ondřej Čech, David Trochta, Pavel Čudek, Tomáš Kazda	Preparation of hard carbon derived from waste biomass for use in sodium-ion batteries	Garrett Motion Czech Republic s.r.o.
D6 – Power Electronics, Electrical Machines and Advance	Šimon Chmelař, Lukáš Jablončík, Radim Dvořák	Multi-Criteria Analysis for the Development of Public Electric Vehicle Charging Infrastructure in a Czech Regional City	ŠKODA AUTO, a.s.
D7 – Automation, Control and System Modelling	Miroslav Kozumplik	Semi-Automated Parameter Identification and Rapid Control Prototyping of a DC Motor Drive Using an STM32 Microcontroller	VALEO AUTOKLIMATIZACE k.s.
D7 – Automation, Control and System Modelling	Marek Sedlařík	Development of a Reduced Order Thermal Model for Real-Time Lithium-ion Battery Storage Simulation	E.ON Česká republika, s.r.o.
D7 – Automation, Control and System Modelling	Vít Šimeček	Fatigue Life Analysis Methods for Vibration Shakers	VALEO AUTOKLIMATIZACE k.s.
D8 – Robotics, UAVs and Intelligent Image Processing	Stepan Jezek, Daniel Duraj, Radim Burget	Zero-Shot Traffic Accident Detection in Urban Surveillance Video Using Large Vision-Language Models	Thermo Fisher Scientific Brno s.r.o.