



VYSOKÉ UČENÍ FAKULTA ELEKTROTECHNIKY
TECHNICKÉ A KOMUNIKAČNÍCH
V BRNĚ TECHNOLOGIÍ



STUDENT
EEICT

Category: B1 – Biomedical Engineering

Room: SE4.166 (UBMI)

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Committee members: Ing. Jiří Sekora, MBA

Ing. Lukáš Smital, Ph.D.

Ing. Marina Filipenská, Ph.D.

Dominik Ficek (Thermo Fisher Scientific Brno s.r.o.)

Order	Authors	Title
1.	Eliška Bachorecová	Forensic Verification of Author of Handwritten Character “k” Using Artificial Intelligence
2.	Jevhenij Vorochta, Helena Vítková, Roman Jakubíček	Direct Gene Detection in Raw Nanopore Signals Using Transformer Neural Networks
3.	Dan Nguyen	Hand gesture recognition from EMG signal using machine learning



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

Matěj Podaný (ŠKODA AUTO, a.s.)

Order	Authors	Title
1.	Jan Kusák, Šimon Sloboda	CubeSat model for image data transmission
2.	Šimon Remper, Jan Dvořák	Detection of Problems in an Industrial Network Using the Concept of Edge Computing
3.	David Maňásek, Ladislav Polák	Portable Measurement System for monitoring of LoRa Radio Links in the 2.4 GHz ISM Band



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Category: B3 – Generation and Transmission of Electrical Energy

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Michal Bernad (ABB s.r.o.)

Filip Girszewski (E.ON Česká republika, s.r.o.)

Order	Authors	Title
1.	Michaela Tichá	Use of aerogel in combination with high entropy materials as anode material for Li-ion batteries
2.	Denis Šaman, Lukáš Radil	Method for Calculating the Allocation Key for Community Energy
3.	Tomáš Brychta, Lukáš Radil	Energy balance in water treatment plants



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

Jakub Streit (Eaton Elektrotechnika s.r.o.)

Order	Authors	Title
1.	Ondřej Dušek, Kryštof Doležal , Oliver Drga, Vít Fousek	Linear Deltabot: Design, Kinematics and Trajectory Generation
2.	Antonín Pospíšil	Display device for archery competitions
3.	Michal Blažík, Matěj Kantor, Soňa Michalková, Kryštof Wojnarowský , Tomáš Janoušek, Jakub Arm	Testbed 4.0: The cooling system incorporating AAS



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Category: B5 – Systems Modeling, Control and Measurement

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Jakub Čelko (Eaton Elektrotechnika s.r.o.)

Order	Authors	Title
1.	Jiří Strnad, Pavel Tomíček	Verification of buck converter efficiency determination and its optimization
2.	Valeriia Orlova	Thermal Model of a Smart Home
3.	Ekaterina Gerasina	Soil water flow modeling for irrigation control



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Lubomír Plavec (ASICentrum spol. s r.o.)

Order	Authors	Title
1.	Lenka Blažková	Segmentation of hip joint anatomy structures from radiographic images
2.	Martina Daňková, Stanislava Košková, Filip Plešinger	Bloody Forecast: Daily Blood Demand Prediction Using Various Modeling Approaches
3.	Anar Davaajargal, Krystof Novotny	Analysis of Temporal Speech Impairments in Prodromal Dementia with Lewy Bodies



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Michal Pražan (ASICentrum spol. s r.o.)

Order	Authors	Title
1.	Jakub Zdražil, Pavel Paluřík	Wildlife Tracking System
2.	Alexander Bekeč, Jiří Veverka, Jan Gromeš	Design of an inter-satellite communication and ranging payload for a rendezvous and proximity operations mission
3.	Ondrej Dohnal, Jan Jerabek	Tool for analysis of domain records collected from open sources



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Order	Authors	Title
1.	Radim Macho , Petr Musil	Platform for detection and monitoring of the devices connected to the power grid
2.	Filip Stryk , Aleš Povalač	Evaluation of Energy Consumption in Different LoRaWAN End Device Classes
3.	Marek Černý , Roman Maršálek, Radek Závorka	Experiments with the 5G beam search in millimeter waves - raytracing and practical indoor measurements



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Order	Authors	Title
1.	Tomáš Nagy	Methods for securing Linux-based embedded systems
2.	Adam Tuček, Willi Lazarov	Aggregation and Evaluation of Vulnerabilities from CVE Databases for Effective Security Assessment
3.	Martina Molnářová, Willi Lazarov	Strategic Threat Intelligence in Cyberspace



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Aleš Vašíček (ABB s.r.o.)

Order	Authors	Title
1.	Vojtěch Šibor, Petr Vyroubal	Digital Twin of a Battery
2.	Jakub Rosendorf, Petr Chmelíček, Jan Bárta	Evaluation of Eddy Effects in Winding of High-Speed Synchronous machines for EV Systems
3.	Tomáš Fryšták	Availability of railway frequency converter to provide ancillary services



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Order	Authors	Title
1.	Josef Bartoněk, Jiří Janoušek	Vision-Based Autonomous UAV Tracking and Control
2.	Tereza Havlíková	Surface Engineering of Piezoelectric Semi-Crystalline Polymer Scaffolds via Plasma Treatment for Improved Adhesion and Integration of Osteoblasts
3.	Tomáš Martiník	Machine Learning-Driven Detection of Repetitive Manufacturing Processes Using Radar Sensor



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MSc. Sudeep Roy, Ph.D.

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Order	Authors	Title
1.	Kristýna Heřmánková	Expression profiles of sRNA genes in <i>Caldimonas thermodepolymerans</i>
2.	Michal Švento	Audio Declipping with Unfolded Douglas-Rachford Algorithm
3.	David Leitgeb	Multipurpose Digital Audio Effect: Combining Different Techniques Within a Single Device



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Ing. Radim Číž, Ph.D.

Zbyněk Raida (NXP Semiconductors Czech Republic s.r.o.)

Order	Authors	Title
1.	Pavel Paluřík	Optimized 5G-IoT Probe: Hardware Innovations and Practical Deployment
2.	David Kohout, Tomas Lieskovan, Petr Mlynek	Smart Meter Emulator
3.	Viet Anh Phan, Jan Jerabek, Roman Kümmel	ptnetinspector: A Practical IPv6 Scanner for Network Reconnaissance

Category: D3 – Microelectronics and Technology

Room: SA7.10 (UEEN)

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Order	Authors	Title
1.	David Trochta, Ondřej Klvač, Tomáš Kazda	Investigating Battery Degradation Mechanisms by In-Situ SEM Analysis and Related Techniques
2.	Hana Hálová	Optimization of Spray Drying Synthesis of LiFePO ₄ : Effects of Calcination and Doping on Microstructure and Electrochemical Properties
3.	Antonín Šimek, Tomáš Kazda, Charles Aram Hall, Ondřej Čech	Unraveling Sodium Storage Mechanisms in Carbon Anodes for Sodium-ion Batteries



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Order	Authors	Title
1.	Kipkurui Ronoh, Dinara Sobola	Influence of ultrafast laser surface modification of the surface morphology, chemical composition and wettability of MONEL® alloy 400
2.	Pavel Máca	Effect of fuel assembly rotation on optimization of fuel pins burnup
3.	Richard Schubert	Detection of Heavy Metal Contamination by Vibrational Spectroscopy: A Combined Theoretical and Experimental Study



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Order	Authors	Title
1.	Tomáš Pitner	Current balancing in parallel structures of high-current power inverters
2.	Matuš Kavec	Optimization of PMSM Control: Integrating Flux Weakening, and MTPA for Performance Enhancement
3.	Jakub Súkeník, Marek Toman	Computational Fluid Dynamics Thermal Modelling of Fan-Cooled Finned Heat-sink Considering Air Temperature Rise



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Order	Authors	Title
1.	Tadeáš Zbožínek, Michal Jelínek, Břetislav Mikel	Enhancing Signal Collection Efficiency in Liquid Scintillators via Optical Fibre End Treatments for Dosimetry Applications
2.	Lukáš Zdražil, Marek Andrle, Petr Špaček	Electrical Properties Measurement of SMD Electrodes for Surface Decontamination
3.	Matěj Turinský	Photovoltaic power plant source measurement system for fault detection



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Order	Authors	Title
1.	Stepan Jezek, Radim Burget	Speed Measurement from Traffic Camera Video Using Structure-from-Motion-Based Calibration
2.	Jakub Čelko	Comparison of Direct and Indirect Identification of a Human Driver Model
3.	Jan Klouda	UAV platform for special operation



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Order	Authors	Title
1.	Jan Buchta	Electroactivity of Polyvinylidene Fluoride Fibers Probed by SPM
2.	Matěj Mlynář	Multifunctional 3D printed UAV



Category	Authors	Title	Sponsor
B1 – Biomedical Engineering	Nikola Jordánová , Andrea Němcová	Stress detection/classification in multimodal data	Thermo Fisher Scientific Brno s.r.o.
B2 – Communication and Information Systems	Jan Kusák , Šimon Sloboda	CubeSat model for image data transmission	Thermo Fisher Scientific Brno s.r.o. ŠKODA AUTO, a.s.
B2 – Communication and Information Systems	Šimon Remper , Jan Dvořák	Detection of Problems in an Industrial Network Using the Concept of Edge Computing	ABB s.r.o.
B3 – Generation and Transmission of Electrical Energy	Michaela Tichá	Use of aerogel in combination with high entropy materials as anode material for Li-ion batteries	ABB s.r.o.
B4 – Industrial Automation, Instrumentation and Engineering	Antonín Pospíšil	Display device for archery competitions	NXP Semiconductors Czech Republic s.r.o. ABB s.r.o.
B4 – Industrial Automation, Instrumentation and Engineering	Michal Blažík, Matěj Kantor, Soňa Michalková, Kryštof Wojnarowský , Tomáš Janoušek, Jakub Arm	Testbed 4.0: The cooling system incorporating AAS	NXP Semiconductors Czech Republic s.r.o.
B4 – Industrial Automation, Instrumentation and Engineering	Ondřej Dušek, Kryštof Doležal , Oliver Drga, Vít Fousek	Linear Deltabot: Design, Kinematics and Trajectory Generation	NXP Semiconductors Czech Republic s.r.o. ABB s.r.o.
B5 – Systems Modeling, Control and Measurement	Jiří Strnad , Pavel Tomíček	Verification of buck converter efficiency determination and its optimization	Honeywell, spol. s r.o.
M1 – Audio, Image and Biomedical Signal Processing	Martina Daňková , Stanislava Košková, Filip Plešinger	Bloody Forecast: Daily Blood Demand Prediction Using Various Modeling Approaches	ASICentrum spol. s r.o.
M2 – Communication and Information Systems, Networks	Jan Ševčík , Radovan Juráň	Energy harvesting for UWB IIoT devices	ASICentrum spol. s r.o.
M2 – Communication and Information Systems, Networks	Patrik Horcicka	Wireless node with WiFi Halow technology	Honeywell, spol. s r.o.
M3 – Machine Learning and Wireless Communication	Radim Macho , Petr Musil	Platform for detection and monitoring of the devices connected to the power grid	Thermo Fisher Honeywell, spol. s r.o.
M4 – Network Security and Cryptography	Daniel Kluka	Design of a secure data transmission system in NB-IoT environment	ASICentrum spol. s r.o.
M5 – Electrical Energy: Generation, Transmission, Optimization	Martin Martinec	Semi-Automatic Spot-Welding Machine for contacting battery cells	ABB s.r.o.
M5 – Electrical Energy: Generation, Transmission, Optimization	Jakub Rosendorf , Petr Chmelíček, Jan Bárta	Evaluation of Eddy Effects in Winding of High-Speed Synchronous machines for EV Systems	Honeywell, spol. s r.o.
M5 – Electrical Energy: Generation, Transmission, Optimization	Tomáš Fryšták	Availability of railway frequency converter to provide ancillary services	ABB s.r.o.
M6 – Industrial Automation, Control, Machine Vision, UAVs	Tereza Havlíková	Surface Engineering of Piezoelectric Semi-Crystalline Polymer Scaffolds via Plasma Treatment for Improved Adhesion and Integration of Osteoblasts	NXP Semiconductors Czech Republic s.r.o.
M6 – Industrial Automation, Control, Machine Vision, UAVs	Tomáš Martiník	Machine Learning-Driven Detection of Repetitive Manufacturing Processes Using Radar Sensor	NXP Semiconductors Czech Republic s.r.o.
M6 – Industrial Automation, Control, Machine Vision, UAVs	Josef Bartoněk , Jiří Janoušek	Vision-Based Autonomous UAV Tracking and Control	NXP Semiconductors Czech Republic s.r.o.
D1 – Audio and Biomedical Signal Processing, Bioinformatics	Matej Liska	Sampling Configuration Analysis for the Design of Spherical Microphone Array	Thermo Fisher Scientific Brno s.r.o.
D2 – Communication and Information Systems, Network Secur	David Kohout , Tomas Lieskovan, Petr Mlynek	Smart Meter Emulator	NXP Semiconductors Czech Republic s.r.o.
D2 – Communication and Information Systems, Network Secur	Pavel Palušík	Optimized 5G-IoT Probe: Hardware Innovations and Practical Deployment	NXP Semiconductors Czech Republic s.r.o.
D2 – Communication and Information Systems, Network Secur	Viet Anh Phan , Jan Jerabek, Roman Kümmel	pInetinspector: A Practical IPv6 Scanner for Network Reconnaissance	NXP Semiconductors Czech Republic s.r.o.
D3 – Microelectronics and Technology	Hana Hálová	Optimization of Spray Drying Synthesis of LiFePO4: Effects of Calcination and Doping on Microstructure and Electrochemical Properties	ABB s.r.o.
D5 – Power Electronics, Electric Drives and Machines	Miroslav Kozumplík	Rapid Prototyping Platform for the Control and Testing of Electric Drives	Garrett Motion Czech Republic s.r.o.
D6 – Sensors and Measurement Systems	Sabrina Boujenfa	Driver inattention state: an overview of distraction, drowsiness, visual perception and infrared imaging	Honeywell, spol. s r.o.