

Category: B1 – Systems Modeling, Sensors, and Signal Processing I.

Room: SA6.34 (UEEN)

Chairman: prof. Ing. Milan Sigmund, CSc.

Vice-chairman: Ing. Miroslav Jirgl, Ph.D.

Secretary: Ing. Lukáš Zdražil (186600@vutbr.cz)

Committee members: Ing. Ondřej Mokrý, Ing. Jan Kufa Ph.D.

Martin Fajkus (Vitesco Technologies Czech Republic s.r.o.)

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

Jindřich Chaloupek (Valeo Autoklimatizace k.s.)

Order	Authors	Title
1.	Ondřej Nesvadba	Detection of gunshots from small arms
2.	Vít Šimeček Ondrej Mihálik	Compression of vehicle-driving data by means of orthogonal bases
3.	Peter Balušík	Image demosaicing using Deep Image Prior

Category: B2 – Systems Modeling, Sensors, and Signal Processing II.

Room: SA6.19 (UEEN)

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

Vice-chairman: Ing. Václav Vyčítal, Ph.D.

Secretary: Ing. Peter Mičian (xmicia01@vut.cz)

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

Jaroslav Lepka (NXP Semiconductors Czech Republic, s. r. o.)

Milan Snížek (Thermo Fisher Scientific Brno s.r.o.)

Luděk Závodný (Garrett Motion Czech Republic s.r.o.)

Order	Authors	Title
1.	Tereza Havlíková	Compatibility of piezoelectric semicrystalline polymer and osteoblastic cells
2.	David Zimniok Jan Mikulka	Analog-digital module for electrical impedance tomography
3.	Jan Sedlář Karel Juřík	System for measurement and control of pressure in vacuum apparatus

Category: B3 – Biomedical Signal and Image Processing

Room: SE4.166 (UBMI)

Chairman: Ing. Jiří Chmelík, Ph.D.

Vice-chairman: prof. Mgr. Pavel Rajmic, Ph.D.

Secretary: Ing. Michal Nohel (xnohel04@vut.cz)

**Committee members: Ing. Andrea Němcová, Ph.D., Ing. Jiří Sekora, MBA
Lukáš Malý (Thermo Fisher Scientific Brno s.r.o.)
Jiří Kutej (SCG CZECH DESIGN CENTER, s.r.o.)**

Order	Authors	Title
1.	Anna Mojžišová	Mobile application for electrophoretic gel image processing
2.	Vojtěch Kadlec	Age estimation from retinal images: Different image preprocessing approaches
3.	Lenka Blažková Michal Nohel	Implementation of a deep learning model for vertebral segmentation in CT data

Category: B4 – Communication and Information Systems

Room: SC3.63 (UTEE)

Chairman: doc. Ing. Petr Cíka, Ph.D.

Vice-chairman: Mgr. Ing. Pavel Seda, Ph.D.

Secretary: Ing. Karel Juřík (187537@vut.cz)

Committee members: Ing. Petr Dejdar, Ing. Tomáš Čaha, Ing. Vojtěch Myška

Marek Papoušek (HELLA AUTOTECHNIK NOVA, s.r.o.)

David Neumann (HELLA AUTOTECHNIK NOVA, s.r.o.)

Veronika Štekerová (ŠKODA AUTO, a.s.)

Order	Authors	Title
1.	Marek Szymutko Pavel Šeda	Plagiarism detection in software projects using abstract syntax trees
2.	Jan Ševčík Radovan Juráň	Back to the future: developing an on-board system for a vintage motorcycle
3.	Natalie Vychodilová Radovan Juráň	Rule-based engine for position data: low-code/no-code approach to process logic

Category: B5 – Industrial Automation, Robotics and Artificial Intelligence

Room: SD3.102b (UAMT)

Chairman: doc. Ing. Václav Jirsík, CSc.

Vice-chairman: Ing. Tomáš Macho, Ph.D.

Secretary: Ing. Tomáš Sýkora (Tomas.Sykora2@vut.cz)

Committee members: Ing. Ondrej Mihálik, Ing. Michal Husák, Ing. Tomáš Beneš

Pavel Pokorný (Honeywell, spol. s r.o.)

Dalibor Kopp (ABB s.r.o.)

Petr Machač (ŠKODA AUTO, a.s.)

Order	Authors	Title
1.	Jan Holba Michal Husák	Creation of a digital twin and its control based on the ANSI/ISA-S88 standard
2.	Tomáš Martiník Václav Kaczmarczyk	Manufacturing system for Industry 4.0 demonstrator
3.	Jiří Šiška	Creation of knowledge base

Category: B6 – Network Technologies, Machine Learning, and Wireless Comm.

Room: SA4.37 (UVEE)

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

Vice-chairman: Ing. Václav Oujezský, Ph.D.

Secretary: Ing. Adrián Tomašov (tomasov@vutbr.cz)

Committee members: Ing. Michal Kubíček, Ph.D.

Tomáš Novák (ASICentrum spol. s r.o.)

Vojtěch Kaláb (Yunex, s.r.o.)

Order	Authors	Title
1.	Jan Blažek Jakub Křoustek Petr Dzurenda	Analysis and detection of PWS malware
2.	Martin Knob Jan Kufa	Photovoltaic battery charger with sun tracking
3.	Martin Nečas	Modular honeypot for IT and OT

Category: M1 – Microelectronics and Technology

Room: SC4.81 (UTEE)

Chairman: Ing. Josef Máca, Ph.D.

Vice-chairman: doc. Ing. Vilém Kledrowetz, Ph.D.

Secretary: Ing. Edita Hejátková (hejatka@vut.cz)

Committee members: prof. Ing. et Ing. Fabian Khateb, Ph.D., Ing. Kristýna Jandová, Ph.D.

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

Dušan Zošiak (ABB s.r.o.)

Order	Authors	Title
1.	Vladimír Trojan	Soft-switching methods and optimization of output stage of MOSFET driver
2.	David Trochta Ondřej Čech	Preparation of inversely vulcanized sulfur for use in post lithium-ion batteries
3.	Tadeáš Zbožínek	Optical fibres for ionising radiation measurements

Category: M2 – Industrial Automation, Robotics and Artificial Intelligence

Room: SD3.102a (UAMT)

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

Vice-chairman: Ing. Václav Kaczmarczyk, Ph.D.

Secretary: Ing. Radim Kadlec, Ph.D. (kadlec@vut.cz)

Committee members: Ing. František Burian, Ph.D., Ing. Ilona Janáková, Ph.D.

Ing. Šimon Bilík, Jiří Czipszer (Honeywell, spol. s r.o.)

Ondřej Zeman (Valeo Autoklimatizace k.s.)

Tomáš Bordovský (Vitesco Technologies Czech Republic s.r.o.)

Order	Authors	Title
1.	Ondřej Matula Tomáš Beneš	Industrial data logger
2.	Eliška Homzová Petr Petyovský	Speech generator for advanced embedded systems
3.	Michaela Mesárošová Ondrej Mihálik	Sparse representation for classification of posture in bed

Category: M3 – Power Electronics, Electrical Machines, and Transmission

Room: SA7.10 (UEEN)

Chairman: doc. Ing. Radoslav Čipín, Ph.D.

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

Secretary: Ing. Vít Krčál (xkrca105@vut.cz)

Committee members: Ing. Vojtěch Wasserbauer, Ing. Viktor Jurák

Petr Chmelíček (Garrett Motion Czech Republic s.r.o.)

Tomáš Bajánek (ABB s.r.o.), Jiří Pikula (Garrett Motion Czech Republic s.r.o.)

Denisa Bajánková (E.ON Česká republika, s. r. o.)

Order	Authors	Title
1.	Jakub Súkeník	Automated Python-controlled thermal analysis of rotor of line-start permanent magnet synchronous machine
2.	Jan Vojtěch Michal Ptáček	Overview of the current state of the art of existing energy community concepts in Europe and their possible implementation in the Czech Republic
3.	Jan Sýkora Lukáš Radil	Providing flexibility with detachable loads

Category: M4 – Network Security, Cryptography, Services, and Technologies

Room: SC7.53 (UTKO)

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

Vice-chairman: Ing. Petr Dzurenda, Ph.D.

Secretary: Ing. et Ing. Petr Musil (musilp@vutbr.cz)

Committee members: Ing. Radek Fujdiak, Ph.D., doc. Ing. Jan Jeřábek, Ph.D.

Order	Authors	Title
1.	Minh Tran Petr Dzurenda	Deployment of threshold signatures for securing Bitcoin transactions
2.	Willi Lazarov Tomas Stodulka	Multi-level approach to cybersecurity education
3.	Viet Anh Phan Jan Jeřábek	Network toolkit for exploiting Internet protocol version 6 security vulnerabilities

Category: M5 – Biomedical Engineering

Room: SD4.111 (UBMI)

Chairman: Ing. Martin Mézl, Ph.D.

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

Secretary: Ing. Martin Králík (kralikmartin@vut.cz)

**Committee members: Ing. at Ing. Jana Schwarzerová, MSc
Ing. Vojtěch Bartoň (RECETOX, MU)**

Order	Authors	Title
1.	Jan Šíma Andrea Němcová	Blood pressure estimation using smartphone
2.	Denisa Hývlová Jiří Vitouš Radovan Jiřík	Comparison of pharmacokinetic models for quantification of blood-brain-barrier opening induced by focused ultrasound
3.	Enikő Vargová Andrea Němcová	Estimation of blood glucose level based on PPG signals measured by smart devices



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Category: M6 – Sensors, Measurement Systems, and Signal Processing

Room: SE6.121 (UREL)

Chairman: doc. Ing. Vladislav Skorpil, CSc.

Vice-chairman: Ing. Tomáš Vičar, Ph.D.

Secretary: Ing. Jiří Fialka, Ph.D. (fialka@vut.cz)

Committee members: Marek Štěpán (Valeo Autoklimatizace k.s.)

Petr Lacman (Honeywell, spol. s r.o.)

Jakub Šťastný (ASICentrum spol. s r.o.)

Petr Novák (Yunex, s.r.o.)

Order	Authors	Title
1.	Dominik Klement Jun Wang Jiri Janousek	Design of a three phase fault tolerant nested neutral point piloted converter with active capacitor voltage balancing and space-vector modulation
2.	Jakub Kočka Jakub Arm	Indoor monitoring system for well-being
3.	Filip Dušek Jaroslav Láčik	3D scanner of electromagnetic field

Category: D1 – Biomedical Engineering

Room: SD4.111 (UBMI)

Chairman: Ing. Vratislav Harabiš, Ph.D.

Vice-chairman: doc. Ing. Radim Kolář, Ph.D.

Secretary: Ing. Jiří Chmelík, Ph.D. (chmelikj@vut.cz)

Committee members: Sudeep Roy, Ph.D., Mgr. Bc. Darina Čejková, Ph.D.

Ing. Jan Odstrčilík, Ph.D.

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

Order	Authors	Title
1.	Jana Schwarzerová Bartoň, Walther, Weckwerth	Comprehensive analysis of putrescine metabolism in <i>A. thaliana</i> using GWAS, genetic risk score, metabolic modelling and data mining
2.	Richard Ředina Marina Ronzhina	Estimation of myocardial conduction velocity using a coronary sinus catheter
3.	Anzhelika Mezina Radim Burget	Chest X-ray image analysis using convolutional vision transformer

Category: D2 – Microelectronics and Technology

Room: SC4.81 (UTEE)

Chairman: prof. RNDr. Petr Vanýsek, CSc.

Vice-chairman: doc. Ing. Jiří Háze, Ph.D.

Secretary: Ing. Pavel Safl (xsaflp00@vut.cz)

Committee members: Ing. Roman Prokop, Ph.D., doc. Ing. Tomáš Kazda, Ph.D.

Ing. Kristýna Jandová, Ph.D.

Jan Chochol (SCG CZECH DESIGN CENTER, s.r.o.)

Pavel Moravec (HELLA AUTOTECHNIK NOVA, s.r.o.)

Order	Authors	Title
1.	Veronika Junasová Vladimír Levek Pavel Šteffan	The precise measurement of magnetic azimuth
2.	Antonín Šimek Ondřej Čech	Methods for the fast detection of water and degradation changes in lithium based electrolytes
3.	Jiří Báňa Tomáš Kazda	Recovery of anode material from Lithium ion batteries

Category: D3 – Power Electronics and Electrical Machines

Room: SA7.10 (UEEN)

Chairman: doc. Ing. Radoslav Cipín, Ph.D.

Vice-chairman: Ing. Dalibor Cervinka, Ph.D.

Secretary: Ing. Marek Toman, Ph.D. (marek.toman@vut.cz)

Committee members: Ing. Jiří Valenta, Ph.D., Ing. Jan Martiš, Ph.D., Ing. Martin Mach

Zdeněk Oborný (ABB s.r.o.)

Order	Authors	Title
1.	Jan Miklas Petr Prochazka	2D physical modeling of semiconductor equations for verification of 1D lumped-charge model of bipolar power devices
2.	Vladimír Bílek	Comparison of machine learning training sampling schemes for induction machine modeling
3.	Tomáš Lažek	Simulations of loss minimization control based on motor parameters for indirect field-oriented control of induction motor

Category: D4 – Sensors, Measurement Systems, and Signal Processing

Room: SD3.102a (UAMT)

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

Vice-chairman: Ing. David Kubánek, Ph.D.

Secretary: prof. Ing. Jarmila Dědková, CSc. (dedkova@vut.cz)

Committee members: doc. Ing. Jaroslav Sklenář, CSc.

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

Order	Authors	Title
1.	Ondřej Kolář Michal Kubíček	Advancements in the development of a proportional counter measuring system
2.	Adrián Tomašov Dejdar, Zaviska, Spurny, Munster, Horvath, Klicnik	Long-term perimeter protection system monitoring using state of a polarization analyzer
3.	Ondřej Klvač Tomáš Kazda	Review of in-situ and ex-situ techniques for characterization of Li-ion batteries

Category: D5 – Network Technologies

Room: SC7.53 (UTKO)

Chairman: prof. Ing. Roman Maršálek, Ph.D.

Vice-chairman: doc. Ing. Jiří Hošek, Ph.D.

Secretary: Ing. Vlastimil Clupek, Ph.D. (clupek@vut.cz)

Committee members: M.Sc. Sara Ricci, Ph.D.

Martin Chytra (E.ON Česká republika, s. r. o.)

Order	Authors	Title
1.	Aneta Koláčková Jan Jeřábek Jiří Hošek	Integrating real-environment 4G and 5G mobile data patterns into network simulations for delay analysis
2.	Yehor Safonov Michal Zernovic	Enhancing security monitoring with AI-enabled log collection and NLP modules on a unified open source platform
3.	Martin Ptáček	Gaussian process regression under location uncertainty using Monte Carlo approximation

Category: D6 – Audio, Image and Video Signal Processing

Room: SE6.121 (UREL)

Chairman: doc. Ing. Kamil Ríha, Ph.D.

Vice-chairman: Ing. Radim Cíž, Ph.D.

Secretary: Ing. Pavel Závíska, Ph.D. (pavel.zaviska@vut.cz)

**Committee members: Ing. Ján Mucha, Ph.D., Ing. Martin Jonák, Ph.D.,
Ing. Petr Petyovský, Ph.D.**

Ondřej Pirochta (Honeywell, spol. s r.o.)

Robert Kalmár (NXP Semiconductors Czech Republic, s. r. o.)

Order	Authors	Title
1.	Matěj Ištváněk Štěpán Miklánek	Beat tracking: Is 44.1 kHz really needed?
2.	Daniel Kováč Dominik Cvetler	Digital biomarkers for assessing respiratory disorders in Parkinson's disease
3.	Tomáš Zemčík Karel Horak	On hyperspectral analysis of water soluble writing inks

Category: D7 – Physical Sciences

Room: SA4.37 (UVEE)

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

Vice-chairman: doc. Ing. Alexandr Knápek, Ph.D.

Secretary: doc. RNDr. Milada Bartlová, Ph.D. (bartlova@vut.cz)

**Committee members: Ing. Pavel Tofel, Ph.D., doc. Ing. Vladimír Holcman, Ph.D.,
Mgr. et Mgr. Rashid Dallaev, Ph.D.**

Order	Authors	Title
1.	Mohammad Allaham Burda, Sobola, Knápek	Field emission characteristics and analysis of charge flow through graphite based cathodes.
2.	Zuzana Košelová	Diffusion behavior of analyte molecules in a nanoporous matrix created from polystyrene nanoparticles
3.	Ammar Alsoud Daradkeh, Knápek, Liedermann, Holcman.	Influence of high concentration of silica nanoparticles on the dielectric spectra

Category: D8 – Industrial Automation, Robotics and Artificial Intelligence

Room: SD3.102b (UAMT)

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

Vice-chairman: Ing. Pavel Mašek, Ph.D.

Secretary: Ing. et Ing. Petr Musil (musilp@vutbr.cz)

**Committee members: Ing. Jakub Arm, Ph.D., Ing. Ján Sláčík,
Ing. Radek Fujdiak, Ph.D.**

Václav Paňko (SCG CZECH DESIGN CENTER, s.r.o.)

Order	Authors	Title
1.	Milos Cihlar Tomas Lazna Ludek Zalud	A comparison particle filter for searching a radiation source in real and simulated world
2.	Karel Kuchar Petr Blazek	Identifying anomalies in industrial networks: A proposed testbed for experimental evaluation
3.	Martin Ruzs Petr Mlýnek	Test polygon for the role of power line communication in ensuring ISO 15118 and IEC 61851 compliance in EVSE technology

Category: S1 – General Technical Focus

Room: Auditorium

Chairman: prof. Ing. Jaroslav Koton, Ph.D.

Vice-chairman: prof. RNDr. Vladimír Aubrecht, CSc.

Secretary: doc. Ing. Jan Mikulka, Ph.D. (mikulka@vut.cz)

Committee members:

Ing. et Ing. Jakub Michálek

Martin Laštovic (Honeywell, spol. s r.o.)

Marek Štěpán (Valeo Autoklimatizace k.s.)

Order	Authors	Title
1.	Sebastian Matoušek	Bipedal walking robot
1.	Mário Daniel Doskočil Monika Pustková Martin Holánik	Electric field web simulation
1.	Ondřej Buček Jan Mikulka	Design methodology for 3D printing of spines

Zvláštní cena sponzora EEICT 2023

Kategorie: B1 – Systems Modeling, Sensors, and Signal Processing I.

	Jméno a příjmení	Název příspěvku	Cena/firma
	Peter Balušík	Image demosaicing using Deep Image Prior	Thermo Fisher Scientific Brno, s.r.o. HELLA AUTOTECHNIK NOVA, s.r.o.

Zvláštní cena sponzora EEICT 2023

Kategorie: B2 – Systems Modeling, Sensors, and Signal Processing II.

	Jméno a příjmení	Název příspěvku	Cena/firma
	Jan Sedlář Karel Jurik	System for measurement and control of pressure in vacuum apparatus	NXP Semiconductors Czech Republic, s. r. o.
	David Zimniok Jan Mikulka	Analog-digital module for electrical impedance tomography	NXP Semiconductors Czech Republic, s. r. o. Thermo Fisher Scientific Brno, s.r.o.
	Tereza Havlíková	Compatibility of piezoelectric semicrystalline polymer and osteoblastic cells	NXP Semiconductors Czech Republic, s. r. o.

Zvláštní cena sponzora EEICT 2023

Kategorie: B3 – Biomedical Signal and Image Processing

	Jméno a příjmení	Název příspěvku	Cena/firma
	Vojtěch Kadlec	Age estimation from retinal images: Different image preprocessing approaches	SCG CZECH DESIGN CENTER, s.r.o.
	Anna Mojžišová	Mobile application for electrophoretic gel image processing	Thermo Fisher Scientific Brno s.r.o.

Zvláštní cena sponzora EEICT 2023

Kategorie: B4 – Communication and Information Systems

	Jméno a příjmení	Název příspěvku	Cena/firma
	Miroslav Babela Petr Musil Radek Možný	OBD diagnostic tool	HELLA AUTOTECHNIK NOVA, s.r.o.

Zvláštní cena sponzora EEICT 2023

Kategorie: B5 – Industrial Automation, Robotics and Artificial Intelligence

	Jméno a příjmení	Název příspěvku	Cena/firma
	Tomáš Martiník Václav Kaczmarczyk	Manufacturing system for Industry 4.0 demonstrator	ABB s.r.o.

Zvláštní cena sponzora EEICT 2023

Kategorie: B6 – Network Technologies, Machine Learning, and Wireless Comm.

	Jméno a příjmení	Název příspěvku	Cena/firma
	Martin Knob Jan Kufa	Photovoltaic battery charger with sun tracking	ASICentrum spol. s r.o.
	Jan Blažek Jakub Křoustek Petr Dzurenda	Analysis and detection of PWS malware	Yunex, s.r.o.

Zvláštní cena sponzora EEICT 2023

Kategorie: M1 – Microelectronics and Technology

	Jméno a příjmení	Název příspěvku	Cena/firma
	Jan Klouda	Design of an integrated energy self-sufficient power supply for residential building consumption	ASICentrum spol. s r.o.
	Vladimír Trojan	Soft-switching methods and optimization of output stage of MOSFET driver	SCG CZECH DESIGN CENTER, s.r.o.
	Ngoc Nam Pham Jan Leuchter Jiří Háze	Acquisition module for non-destructive testing of aircraft composite structures	ABB s.r.o.

Zvláštní cena sponzora EEICT 2023

Kategorie: M2 – Industrial Automation, Robotics and Artificial Intelligence

	Jméno a příjmení	Název příspěvku	Cena/firma
	Van Phi Nguyen Josef Bajer Václav Křivánek	Precision landing of multirotor drones using computer vision	Honeywell, spol. s r.o.

Zvláštní cena sponzora EEICT 2023

Kategorie: M3 – Power Electronics, Electrical Machines, and Transmission

	Jméno a příjmení	Název příspěvku	Cena/firma
	Jakub Súkeník	Automated Python-controlled thermal analysis of rotor of line-start permanent magnet synchronous machine	ABB s.r.o. Garrett Motion Czech Republic s.r.o.

Zvláštní cena sponzora EEICT 2023

Kategorie: M6 – Sensors, Measurement Systems, and Signal Processing

	Jméno a příjmení	Název příspěvku	Cena/firma
	Domínik Klement Jun Wang Jiri Janousek	Design of a three phase fault tolerant nested neutral point piloted converter with active capacitor voltage balancing and space-vector modulation	ASICentrum spol. s r.o.
	Jakub Kočka Jakub Arm	Indoor monitoring system for well-being	Yunex, s.r.o.

Zvláštní cena sponzora EEICT 2023

Kategorie: D1 – Biomedical Engineering

	Jméno a příjmení	Název příspěvku	Cena/firma
	Michal Cícatka Jan Lancos Radim Burget	Improvement of microbial colony segmentation using synthetic data	Thermo Fisher Scientific Brno s.r.o.

Zvláštní cena sponzora EEICT 2023

Kategorie: D2 – Microelectronics and Technology

	Jméno a příjmení	Název příspěvku	Cena/firma
	Pavel Tomíček Jaroslav Boušek	Suppresion of FET gate parasitics using transient gate overvoltage	SCG CZECH DESIGN CENTER, s.r.o.

Zvláštní cena sponzora EEICT 2023

Kategorie: D3 – Power Electronics and Electrical Machines

	Jméno a příjmení	Název příspěvku	Cena/firma
	Iveta Lolová	Topology optimization of line-start synchronous reluctance machine with fully filled flux barriers	ABB s.r.o.

Zvláštní cena sponzora EEICT 2023

Kategorie: D4 – Sensors, Measurement Systems, and Signal Processing

	Jméno a příjmení	Název příspěvku	Cena/firma
	Adrián Tomašov Dejdar, Zaviska, Spurny, Munster, Horvath, Klicnik	Long-term perimeter protection system monitoring using state of a polarization analyzer	NXP Semiconductors Czech Republic, s. r. o.
	Ondřej Klvač Tomáš Kazda	Review of in-situ and ex-situ techniques for characterization of Li-ion batteries	NXP Semiconductors Czech Republic, s. r. o.
	Ondřej Kolář Michal Kubíček	Advancements in the development of a proportional counter measuring system	NXP Semiconductors Czech Republic, s. r. o.

Zvláštní cena sponzora EEICT 2023

Kategorie: D5 – Network Technologies

	Jméno a příjmení	Název příspěvku	Cena/firma
	Yehor Safonov Michal Zernovic	Enhancing security monitoring with AI-enabled log collection and NLP modules on a unified open source platform	E.ON Česká republika, s. r. o.

Zvláštní cena sponzora EEICT 2023

Kategorie: D6 – Audio, Image and Video Signal Processing

	Jméno a příjmení	Název příspěvku	Cena/firma
	Daniel Kováč Dominik Cvetler	Digital biomarkers for assessing respiratory disorders in Parkinson's disease	NXP Semiconductors Czech Republic, s. r. o.
	Matěj Ištváněk Štěpán Miklánek	Beat tracking: Is 44.1 kHz really needed?	NXP Semiconductors Czech Republic, s. r. o.
	Tomáš Zemčík Karel Horak	On hyperspectral analysis of water soluble writing inks	NXP Semiconductors Czech Republic, s. r. o.

Zvláštní cena sponzora EEICT 2023

Kategorie: D8 – Industrial Automation, Robotics and Artificial Intelligence

	Jméno a příjmení	Název příspěvku	Cena/firma
	Miloš Cihlár Tomas Lazna Ludek Zalud	A comparison particle filter for searching a radiation source in real and simulated world	SCG CZECH DESIGN CENTER, s.r.o.