

Results of the Best Poster Award

Biomedical Engineering

1. Lilli Anders: Growth-Driven Redesign of a 3D-Printed Pediatric Orthoprosthesis Based on Clinical Gait Observation
1. Soňa Šikyňová: PPGI-Based Perfusion Analysis and Machine Learning for Skin Prick Test Evaluation
2. Raphael Hoffmann, Lara Schweitzer: Adaptive Self-tightening Donning Mechanism for Exoskeletons
2. Franka Nordmann: EEG Artifact Classification using Machine Learning and Neural Networks on Clinically Collected Data
3. Vladimíra Solarová: Validation of breath detection reliability in a neonatal breathing pad
3. Malte Drees: Automated Multi-Tissue FEM Generation for Electrical Impedance Tomography from Radiographic Data

Communications

1. Christoph Loeser: Towards Multi-Snapshot FDR-Controlled Localization for Emergency Response Radar
2. Jana Zimanová: Optical Loss Characterization of 50x50 mm Multimode Polymer Channel Waveguides Using the Cut-Back Method
3. Viktória Pikulíková, Adam Petrovic: Silicon Nitride Photonic Splitters for Power Management in Short-Wave-Infrared Region

Electronics and Instrumentation

1. Aneta Furmanová: Analytical eigenfrequencies approximation of perforated square plates
2. Šimon Pecháček: Distributed Wireless Structural Health Monitoring System for Aircraft Structures
3. Vojtěch Brandýštl: Device Simulation of a Fully Interdigitated Bidirectional Phase Control Thyristor
3. Marek Zdurieník: Gallium oxide photonic devices for on-chip applications

History of Science and Technology

1. Daniel Kyselka: The Walter Company
2. David Knespl: The Representation of the Earth on the Astronomical Clocks
3. Martin Hrtus: The Food Processor in Czechoslovakia (1930-1960): A Technological Object Between Planned Economy and Rationalization of Domestic Work
4. Dominika Burešová, Michal Bartoň: Creativity under Constraint: Comparative Case Studies in Mathematical Practice
5. Jorge Alonso Rodríguez Ortiz: Visual Sources for Business History and the History of Technology. Production, Quality Control, Logistic and Technology Transfer in the Case of Colombian Steam Locomotives Purchased from Skoda (1927-1932)

Informatics and Cybernetics

1. Cristhiam Martinez: Psychoacoustic Characterization of Traditional Percussion: A Bootstrap Approach for Small Datasets Applied to the Colombian Alegre Drum
2. Lenka Bubenková: Gamified Cybersecurity Training Environments for Phishing Awareness and Secure Digital Practices
3. Adam Lukac: Impact of Voice Aging on Speaker Embeddings in Speaker Verification

Natural Sciences

1. Thomas Brunner: Compressible flow simulation of acoustic energy dissipation at a liner orifice under harmonic excitation
2. Jan Boysen, Shish Kumar Singh: Vibration and noise control of functional composite panels incorporating the acoustic black hole effect
3. Markéta Vlčková: Fusion Proton Spectrometry in Z-pinch Plasma

Power Engineering

1. Louis Gouveia: Characterization and modelling of Si hysteresis in physico-chemical battery models
2. Katya Longinova: Post-Mortem Degradation Mechanism Analysis of High-Power LFP Battery Cells
3. Adriana Nováková, Ondřej Pražák, Jaroslav Pazourek: Evaluation of Heat Transfer and Mechanical Trade-offs in SLA-Printed Boron Nitride (BN) Composites

Elevator Pitch

Jaroslav Pazourek: Evaluation of Heat Transfer and Mechanical Trade-offs in SLA-Printed Boron Nitride (BN) Composites

Michal Zelený: Endovascular Laser Ablation: Influence of Wavelength and Fiber Geometry

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Rohde Schwarz Award

Šimon Pecháček: Distributed Wireless Structural Health Monitoring System for Aircraft Structures

Simon Prato: Numerical Investigation of TEM Cells and Antenna Coupling