

Session List of Papers Accepted for Presentation at Poster 2026 Conference

Poster ID	Paper Title
BI01	Influence of light on the brain
BI02	Conductive Filament ECG Handles
BI03	Machine Learning Based Quantitative Analysis of Hydrogen Impurities Using Raman Spectroscopy
BI04	Automated Multi-Tissue FEM Generation for Electrical Impedance Tomography from Radiographic Data
BI05	Growth-Driven Redesign of a 3D-Printed Pediatric Orthoprosthesis Based on Clinical Gait Observation
BI06	Validation of the accuracy of respiratory rate measurement using smartwatches
BI07	Validation of breath detection reliability in a neonatal breathing pad
BI08	EMD methods for suppressing muscle artifacts
BI09	Machine Learning-Based Fall Detection Using Multi-Level Data Fusion Techniques
BI10	Endovascular Laser Ablation: Influence of Wavelength and Fiber Geometry
BI11	Adaptive Self-tightening Donning Mechanism for Exoskeletons
BI12	Effects of hypoxia and deep breathing on skin microcirculatory signals - a proof-of-concept study
BI13	Active Upper Limb Exoskeleton for Arm Rehabilitation
BI14	PPGI-Based Perfusion Analysis and Machine Learning for Skin Prick Test Evaluation
BI15	Discovering wave equations for nonlinear sound beams from data
BI16	Model Predictive Control in the Critically Ill Rat
BI17	In-Depth Phenotyping of White Matter Hyperintensities
BI18	Characterization of fluorescent properties of gold nanoclusters
BI19	EEG Artifact Classification using Machine Learning and Neural Networks on Clinically Collected Data

Poster ID	Paper Title
C01	Silicon Nitride Photonic Splitters for Power Management in Short-Wave-Infrared Region
C02	Optical Loss Characterization of 50x50 μm Multimode Polymer Channel Waveguides Using the Cut-Back Method
C03	A Proposal for a Communication Protocol for Distributed Measurement Systems with High Jitter
C04	Towards Multi-Snapshot FDR-Controlled Localization for Emergency Response Radar

Poster ID	Paper Title
EI01	Analytical eigenfrequencies approximation of perforated square plates
EI02	Distributed Wireless Structural Health Monitoring System for Aircraft Structures
EI03	Automated gm/ID Based Design of Analog Circuits using Genetic Algorithms

EI04	Miniaturized Fluxgate Fabricated using Flip-chip Bonding Process
EI05	Device Simulation of a Fully Interdigitated Bidirectional Phase Control Thyristor
EI06	Mathematical Modelling Of A Piezoelectric Accelerometer For Aerospace Application
EI07	Gallium oxide photonic devices for on-chip applications
EI08	Polymer Waveguides with a Circular Core Shape Fabricated by the Microdosing Method
EI09	Outperforming Classical EM Bounds Using LPTV Loads
EI10	Numerical Investigation of TEM Cells and Antenna Coupling
EI11	Testing a New Generation of Hardpix2 Devices Using the Timepix2 Detector at the CERN PS Beam
EI12	Transport characterization of exfoliated layered tellurides as a platform for spin-orbit heterostructures

Poster ID	Paper Title
HST01	Creativity under Constraint: Comparative Case Studies in Mathematical Practice
HST02	Coal Mining Technologies and the Transformation of the Industrial Landscape: The Ostrava-Karviná Region from the Late 19th Century to Contemporary
HST03	Hydroelectric Beginnings on the Vltava: Engineering, Municipal Enterprise, and the Making of the Štvanice Power Plant (1880-1914)
HST04	From Workers' Colonies to Post-war Housing Estates: Spatial and Social Transformations of Industrial Housing in Western Bohemia (from the end
HST05	Professor Antonín Svoboda's visit to Prague in January 1975: historical context, course and interpretation of archival sources
HST06	Emanuel Šlechta: Professor, Innovator, and Entrepreneur in the Interwar Period
HST07	The Food Processor in Czechoslovakia (1930-1960): A Technological Object Between Planned Economy and Rationalization of Domestic Work
HST08	Visual Sources for Business History and the History of Technology. Production, Quality Control, Logistic and Technology Transfer in the Case of Colom
HST09	The Representation of the Earth on the Astronomical Clocks
HST10	Celdit between Autarky and Energy Security: The Electrochemical Cellulose Industry in Times of War II
HST11	The Role of Licensed AVRMA Aircraft Clock Production in the Development of Industrial Wristwatch Manufacturing in Czechoslovakia in the 1950s
HST12	Building the Tunisian Educational System after Independence (1956-1965): the 1958 Reform and the Role of Mahmoud Messadi
HST13	The Walter Company

Poster ID	Paper Title
IC01	Towards Reliable Programmer Attribution in Educational Source Code
IC02	Statistical Evaluation of Source Code Metrics for Programming Style Identification
IC03	Deep Learning Methods for Source Code Author Identification
IC04	Gamified Cybersecurity Training Environments for Phishing Awareness and Secure Digital Practices
IC05	Estimation of slip and slide effects in urban rail vehicles
IC06	Lightweight Convolutional 2D classifier for Musical Instruments Recognition
IC07	Psychoacoustic Characterization of Traditional Percussion: A Bootstrap Approach for Small Datasets Applied to the Colombian Alegre Drum

IC08	Multi-Objective Model Selection Pipeline for Network Flow Classification
IC09	Impact of Voice Aging on Speaker Embeddings in Speaker Verification
IC10	From Logic to Programming: A Computational Perspective on Transparent Intensional Logic

Poster ID	Paper Title
NS01	Controlled Phase Transitions of a Water Droplets Observed using Advanced Environmental Scanning Electron Microscopy (A-ESEM)
NS02	Audiovisual Perception of Loudness in Concert Halls
NS03	Toward an Automated System for Indifactor Alignment using UNET Segmentation
NS04	Fusion Proton Spectrometry in Z-pinch Plasma
NS05	Vibration and noise control of functional composite panels incorporating the acoustic black hole effect
NS06	Toward a Measurement Framework for Acoustical Well-Being
NS07	Compressible flow simulation of acoustic energy dissipation at a liner orifice under harmonic excitation
NS08	Fusion Proton Source Characterization in Z-pinch Discharges
NS09	PsyTools: An Open-Source Python Toolbox for Standardized Psychoacoustic Analysis

Poster ID	Paper Title
PE01	LTO Battery Storage Revival: BMS Design Correction and Long-term Validation of 0 V Discharge Resilience
PE02	Comparison of photonic power converter efficiency with active and passive cooling in 5 m free-space power link
PE03	Post-Mortem Degradation Mechanism Analysis of High-Power LFP Battery Cells
PE04	Characterization and modelling of Si hysteresis in physico-chemical battery models
PE05	Deciphering Relaxation Time Distributions in Prussian Blue-based Sodium-Ion Batteries
PE06	Data-Driven Multi-Fault Detection and Diagnosis for EV Battery Pack
PE07	Evaluation of Heat Transfer and Mechanical Trade-offs in SLA-Printed Boron Nitride (BN) Composites