

Student Scientific Conference of FAS 2025 (SVK+SVKB 2025)

Plzeň, May 22, 2025

Session “PhD.” (corridor in front of the halls, 10:15-12:15)		
Chair	Jiří Martínek	
7:30	Registration	
8:00	Conference opening	
10:15	Poster session (10:15-12:15), lunch	
15:30	Announcement of results and the end of the conference	
List of posters (Physics, Mathematics, Mechanics, Geomathematics)		
Jan Koloros	Ultra-low-resistivity nitrogen-doped Cu ₂ O thin films fabricated by reactive high-power impulse magnetron sputtering (HiPIMS)	
Sadoon Farrukh	Strongly thermochromic W-doped VO2 films with large temperature coefficient of electrical resistance near room temperature	
Jan Vosejпка	Advancing Cu2O Films for PEC Water Splitting Using Reactive HiPIMS: Enhanced Crystallinity and Photocurrent Performance	
Akash Kumar	Deposition of Cu-Doped TiO2 using Helium-Assisted DC Magnetron Sputtering for Conductometric Hydrogen Sensing	
Minh Thanh Vu	Synthesis and characterization of HiPIMS-deposited Zr–O–N films for potential water splitting applications	
Jiří Belinger	Global gravitational field modelling for spheroidal planetary bodies: non-singular expressions	
Tomáš Augustiňák	Reduced-order modelling of blood flow in the human arterial tree	
List of posters (Cybernetics, Informatics)		
Jakub Šmíd	Cross-lingual Emotion Detection	
Duc Thien Pham	SpiTranNet: A Spiking-Transformer network for Motor Imagery classification using multi-channel EEG signals	
Elgun Majidov	Two Pillars of Software Project Health: DevOps and DevEx	
Jan Krejčí	The Right Tracker for the Right Job: Maritime Case Study	
Lukáš Kuhajda	Engineering Thermostable Proteins Using Large Language Models	
Jiří Vyskočil	Towards Aesthetic Enrichment of Mirror Selfies via Automatic Image Analysis	
Kateřina Wolf	Complexity of KIR allele identification pipeline design	
Tomáš Lebeda	Spacial Analysis of Image Description for Detection of Cognitive Disorders	
Martin Langmajer	Zero Vibration Filter Design Tool	
Michal Brabec	An Analytical Design Method for Power System Stabilizers Based on Hinf Specifications	
Jan Tupý	Nonsense Word Repetition for Detection of Cognitive Disorders	
Jan Trejbal	Point-mass Filter with Non-equidistant Grid Design	
Tomáš Honzík	Autoregressive Upscaling of Sparse Single-Cell Data Improves Interpretability	
Tomáš Železný	Ablations Studies in Pose-Based Sign Language Translation	
Lukáš Vladař	Using Pre-trained Models for Phoneme Representation in Czech Speech Synthesis	
Tomáš Mvslivec	Testing Platform for Periodic Control	

Participants must be present during the poster session (10:15-12:15)

Proceedings for download: https://svk.fav.zcu.cz/download/proceedings_sv_k_2025.pdf