EHB 2026 Young Researcher Contest

Nr.	ID	Author	Title
1	7	Alexandra Marin	A Comparative Study of Feature-Based Machine Learning and CNNs for Skin Cancer Classification
2	15	Paula Antonia Ioo	Thyroid Cancer Risk Assessment: A Comparative Analysis of Machine Learning Models
3	17	Aurelia-Mihaela Bodeanu	Beyond Prediction Accuracy: Clinical Evaluation of Multimodal Blood Glucose Prediction in Type 1 Diabetes
4	18	Ștefania-Diana Dinoiu	Assistive Communication System for Immobilized Patients Based on Eye Movement Recognition
5	20	Esra Kara	Extending the Measurement Range and Accuracy of MagLev Density Systems through Off-Center Imaging
6	36	Arpita Shil Puja	Establishment of In-House Methodology for DNA Extraction from Peripheral Blood Mononuclear Cells and Bacterial Colonies
7	38	Kevin Dominey	COSREF-HUP: A Risk-Informed Framework for Human Performance and Requirements Engineering
8	43	Ainhoa Ruiz Vitte	Automatic Activities of Daily Living Classification Using Wrist-Worn Inertial Sensing
9	50	Elena Santos Villa	Nozzle-tip thermal stabilisation for enhanced extrusion bioprinting performance
10	51	Elena Santos Villa	Comparative analysis of cardiac patch degradation in synthetic and biological pericardial fluid
11	58	Albert GOGA	INDOVIEWER: Expanding Medical System Capabilities from the Conventional Operating Room to Dynamic, Remote, and Disaster-Affected Environments Using an AI-Assisted Fluorescence Imaging Platform
12	59	VIKAS S	A High-Throughput System for Accurate Bacterial Colony Enumeration Using YOLOv8-based Instance Segmentation
13	62	Charles Bruce	RAG-Based LLMs for Post-Discharge Patient Education: Evaluating Faithfulness and Readability
14	66	Lucian Oancea	Compact hand prosthesis solution actuated by shape memory alloys
15	67	Alexandru Cristian Buzamat	From Motor Imagery Classification to Navigation Evaluation in a BCI Wheelchair Simulator
16	70	Cristian Lupan	Properties of Eu-doped ZnO Thin Films for VOC Biomarker Detection in Biomedical Applications and Industrial Monitoring
17	76	Adéla Mádlová	Effect of Crosslinker and UV Absorber Content on the Properties of PHEMA Hydrogels
18	80	Vittorio Santoriello	Neurophysiological and Autonomic Responses to Eyes-Open and Eyes-Closed Conditions in Parkinson's Disease: An EEG and Heart Rate Variability Study
19	84	Cristiana Lupu	Bio-Medical Signals for Driver Emotion Recognition: A State-of-the-Art Review of Modalities, Datasets and Translational Challenges
20	92	Emanuele Costanzo	Deep Learning Analysis of PPG Spectrograms for Abnormal Ankle-Brachial Index Classification
21	97	Gabriel-Alexandru Vrabie	Vision Transformer-Based Epilepsy Detection with Variational Mode Decomposition
22	99	Simona-Narcisa Arghir	Development of a Low-Cost Multisensory Game Suite for Attention Training in Children with ASD and ADHD
23	100	Mădălina-Sorina Popa	Kidney and Tumor 3D Segmentation with a Two-Stage Ensemble of Neural Networks
24	106	Teodora Papa	Classification of OCT Images for Age-related Macular Degeneration Diagnosis
25	111	Andrei-Alexandru Ivu	Composite grafts based on chitosan, alginate and hydroxyapatite for bone regeneration
26	115	Mihail-Cristian Heghea	PPGAnonymizer: A Privacy-Preserving Edge AI Framework for PPG Signal Anonymization
27	123	Gislein Anabella González Sánchez	Designing a Stakeholder-Centered Capacity Assessment for Medical Device Ecosystems: A Methodological Approach for Panama
28	124	Martina Holá	Validation of Wearable Heart Rate Monitors in Athletes During Submaximal Cycling: A Comparison with Three-Lead ECG
29	129	Vittorio Santoriello	Sympathetic Responses to Passive Upper-Body Exoskeleton-Assisted Rehabilitation in Amyotrophic Lateral Sclerosis: An Electrodermal Activity Pilot Study