

S6 2025 IEEE Symposium on CI in Health and Medicine (IEEE CHIM)

18th March 2025					
Session	Time	Room	#Papers	Title	Authors
short S6-A	12:00-13:00	Cosmos J&2	6	Oral cancer recognition on photographic images via deep learning semantic segmentation Multi-task deep-learning for sleep event detection and stage classification JAM-net: a KAN-based Deep Neural Network for Pneumonia Detection in Chest X-Rays Quantum-Inspired NAS with Attention-Based Search Spaces for Medical Applications MGMT Promoter Methylation Predicts Survival in Lung Adenocarcinoma Segmentation for Retinal Blood Vessels Using Channel Attention U-Net and Pix2Pix	Parola, Marco*; Cimino, Mario; Cantini, Irene; La Mantia, Gaetano; Campisi, Giuseppina; Di Fede, Olga Anido-Alonso, Adriana*; Alvarez-Estevéz, Diego Romano, Massimo*; Tedeschi, Jacopo; Amerini, Irene Paez, Diego*; Medeiros Carvalho, Thiago; Vasquez Saavedra, Santiago; Valencia, Cesar; Figueiredo, Karla; M.B.R Vellaso, Marley Hekim, Suleyman; Mamajan, Yasin* Polowczyk, Agnieszka; Polowczyk, Alicja; Wilos, Katarzyna; Wozniak, Marcin*

poster S6	12:00-13:00	Cosmos J&2	1	Detection of Nocturnal Hypoglycemia in People with Diabetes using Consumer-Grade Smartwatches	Mendez Schneider, Camilo*; Kaykayoglu, Ceren Asli; Bähler, Thimo; Künzler, Juri; Lizoain, Ariz; Rothenbühler, Martina; Schmidt, Markus H.; Laimer, Markus; Witherauer, Lilian
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oral S6-A	14:00-15:00	Cosmos 3d	6	Images of Stress: Investigating Image Encodings and Transfer Learning for Stress Detection	Ctaku, Mjellina*; Zoti, Larissa; Meyer-Nieberg, Silja; Hoffmann, Marco; Kusel, Cornelia
long S6-A	15:30-16:30	Cosmos J&2	6	An Extensive Analysis of Match-Tracking Methods for ARTMAP Investigating Fairness with FairAIR: is Pre-processing Useful Only for Performances?	Meloni, Niklas*; Brito Da Silva, Leonardo; Wurnsch, Donald Rispoli, Michele; Nobile, Marco; Manzoni, Luca; D'Onofrio, Alberto; Confalonieri, Marco; Salton, Francesco; Confalonieri, Paola; Ruaro, Barbara; Gallesse, Chiara *
Session Chair: Vassilis Plagianakos				Algebraic Reproduction of Triage Decision Making on Simple Heuristics of Boolean Multivalued Logic Deep Learning on Hester Davis Scores for Inpatient Fall Prediction Transforming Medical Practice: Harnessing the Power of Big Data and Machine Learning for Predictive Precision Medicine	Watanabe, Taira; Nishizaka, Taishi; Suzuki, Kujira; Nishikawa, Atsushi; Katai, Hitoshi; Suzuki, Hisashi* Salehinejad, Hojjat*; Rojas, Ricky; Iheasirim, Kingsley; Yousufuddin, Mohammed; Borah, Bijan Theocharopoulos, Panagiotis*; Bersimis, Sotiris; Georgakopoulos, Spiros; Tasoulis, Sotiris; Plagianakos, Vassilis

19th March 2025					
Session	Time	Room	#Papers	Title	Authors
short S6-B	12:00-13:00	Cosmos J&2	3	Enhancing Proactive Patient Outreach with Medical Message Classification Using Synthetic Data from ChatGPT Lightweight Neural Architecture Search for Cerebral Palsy Detection Diagnosis and Severity Estimation of Ulcerative Colitis using Self-Supervised Learning	Camargo de Brito, Adriana; Galindo Leal, Adriano*; Torres Custodio, Gustavo; Jose Rodrigues, Edison; Marcia Viana Martins, Michele; Monteiro de Paula Guirado, Vinicius Tempel, Felix*; Ihlen, Espen Alexander F.; Strumke, Inga Margapur, Venkata Siva Kumar*

EBP S6	12:00-13:00	Cosmos J&2	2	Application of Quadratic Discriminant Analysis in prediction of premature birth of twins based on Electroencephalogram Hemodialysis in End-Stage Renal Disease Patients Using Wearable Devices, Vein Reflow Enhancement Strategies, and Respiratory Rhythm Training	Niu, Haijun* han, chen*; Chen, Yili; Chang, Chin-Chieh; Wang, Chuan-Chia; Lin, Shu-Jen; Fang, Tung-Jing
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oral S6-B	14:00-15:00	Cosmos 3c	6	AnonymSys: an automatic, remote assessment of early cognitive decline in real-world conversational speech	Pahar, Madhurananda*; Tao, Fuxiang; Mirheidari, Bahman; Pevy, Nathan; Bright, Rebecca; Gadgil, Swapnil; Sproson, Lise; Braun, Dorota; Illingworth, Caitlin; Blackburn, Daniel; Christensen, Heidi
long S6-B	15:00-16:00	Cosmos J&2	6	Enhancing Patients Compliance in Home-Based Respiratory Rehabilitation after cardiac surgery: A Smartphone Application for Monitoring Spirometer Exercises Using YOLOv8-Pose Deep-Learning Classifiers for Small Data Orthopedic Radiology Vendor-Agnostic 3D Mitral Valve Segmentation Using Semi-Supervised Learning Feasibility of using EEG-based BCI for tracking perceptual growth in infants Generating Cardiovascular Data by Integration of Physiological Information	Ferrari, Davide*; Vitali, Andrea; Regazzoni, Daniele; Rizzi, Caterina Nitschke, Geoff* HAU, Matlyis*; Munafo, Riccardo; Saitta, Simone; Veronesi, Federico; Grenne, Bjørnar; Ingallina, Giacomo; Lindseth, Frank; Votta, Emiliano; Kiss, Gabriel Aggarwal, Swati*; Weel, Ruud van der; Agyei, Seth Bonsu; Van der Meer, Audrey Kummert, Johannes; Schulz, Alexander*; Habigt, Moriz; Siemmler, Maik; Kohler, Christina; Abel, Dirk; Rossaint, Rolf; Hammer, Barbara

20th March 2025					
Session	Time	Room	#Papers	Title	Authors
oral S6-C	10:00-11:00	Cosmos 3c	5	Application of Fuzzy-based Uncertainty in Cardiac MRI Segmentation	Lin, Qiao*; Garibaldi, Jon
long S6-C	11:00-12:00	Cosmos J&2	5	Robust Unified Graphical Lasso based on t-distribution LSTM-Based Classification of Psychiatric Disorders Using Ultra-Short Raw ECG Signals Comparative Analysis and Evaluation of Well-being Activity-Infused Fine-Tuned Language Models with Benchmark Models Training Deep Neural Networks with Multi-objective Adam Optimizer for Medical Image Classification	Moriya, Ryohei; Tanioka, Kensuke*; Takagishi, Mariko; Hiwa, Satoru; Hiroyasu, Tomoyuki Tsakmaki, Paraskevi*; Tasoulis, Sotiris; Georgakopoulos, Spiros; Plagianakos, Vassilis MOHAMMED, HAMZA HARUNA*; Kiss, Gabriel; Serrano, J. Artur; Lindseth, Frank Nikbakhstarevstani, Farzaneh*; Ebrahimi, Mehran; Rahnamayan, Shahrvar