

18th March 2025					
Session	Time	Room	#Papers	Title	Authors
oral S3-A	11:00-12:00	Cosmos 3d	6	CAS-GAN for Contrast-free Angiography Synthesis	De-Xing Huang; Xiao-Hu Zhou; MeiJiang Gui; Xiaoliang Xie; Shiqi Liu; Shuangyi Wang; Hao Li; Tianyu Xiang; Zengguang Hou
long S3-A	12:00-13:00	Cosmos 1&2	6	Analyzing Latent Entropy in Deep Q-Learning	Jacob Kooi; Mark Hoogendoorn; Vincent Francois-Lavet
Session Chair: TBA				NeRFing the Road: Synthesizing Simulated and Real-world Data for 3D Reconstruction of Large-Scale Autonomous Driving	Shaira Tabassum; Gabriel Kiss; sachin Verma; Kiran Raja; Frank Lindseth
				Self-supervised Spatial-Temporal Learner for Precipitation Nowcasting	Haotian Li; Arno Siebes; S Mehrkanoon
				Spatially-Informed Multi-Stage Active Learning for Segmentation of Nucleus in Soft X-ray Tomograph	Ayse Erozan; Alexander Zeilmann; Anthoula Chatzimpinou; Fariha Mahzabin; Vincent Heuveline; Venera Weinhardt
				Exploring the Integration of Spatial Information into a Spectral Clustering Approach to Unsupervised Band Selection	Håvard Hjelmseth; SofieOlsvik Johansen; Pauline Haddow
short S3-A	16:30-17:30	Cosmos 1&2	6	Predictability of Maternal Sensory Signals: A Machine Learning Perspective	Fareeda Mohammad; Eveliina Mykkänen; Jani Käpylä; Mervi Vänskä; Sari Peltonen
				Swin PoseFormer: A Human Activity Recognition Model Using Skeleton Heatmaps	Haoran Qi; Zihan Zhang; Farhana Zulkernine
				Convolutional autoencoder-based multimodal one-class classification	Firas Laakom; Fahad Sohrab; Jenni Raitoharju; Alexandros Iosifidis; Moncef Gabbouj
				Performance Evaluation of 3D Human Pose Estimation Algorithms for Skeleton-Based Gait Recognition	Federico Boscolo; Vitor Canineo Komar; Pandeli Borodani; Fabrizio Lamberti
				Feature-based Approaches to Multi-View Image Stitching	Samuel Venezia; Sonya Coleman; Dermot Kerr; John Fegan
				Object Counting By Tracking For Complex Video Sequences	Jera Makar; Hani Hlagras; Hugo Leon; Anasol Pena-Rios

19th March 2025					
Session	Time	Room	#Papers	Title	Authors
oral S3-B	11:00-12:00	Cosmos 3c	6	STC-CapsNet: Detecting Audio Deepfakes with Spatio-Temporal Convolutions and Capsule Networks	Taiba Majid; Syed Asif Ahmad Qadri; Irene Amerini
long S3-B	12:00-13:00	Cosmos 1&2	6	Automated Tailoring of Heuristic-Based Renyi's Entropy Maximizers for Efficient Melanoma Segmentation	Daniel Zambrano; Jorge Ramos-Frutos ; Oscar Ramos-Soto; Juan Gabriel Aviña-Cervantes ; Diego Oliva; Jorge Cruz-Duarte
Session Chair: TBA				Adaptive Retraining Techniques for Foreign Object Detection in Industrial Environments	Subilal Purayil; Mark H. M. Winands; Matúš Mihalák; Mirela Popa
				Learning a Wavelet Neural Filter with Mamba for Sequential Recommendation	Yuanming Huang; Jie Lu; Keqiyun Li; Guangquan Zhang
				Music Genre Classification using Large Language Models	Mohamed El Amine Meguenani; Alceu Britto; Alessandro Lameiras Koerich
				CAW: A realistic benchmark for semi-supervised semantic segmentation in maritime computer vision	Wolodymyr Krywonos; Angelo Cangelosi
poster S3	16:00-17:00	Cosmos 1&2	2	Theoretical Analysis of Adaptive Signal Processing with Nonlinear Unknown System	Seiji Miyoshi
				Using a Suitability Score to Optimize CNN Implementation on FPGAs	Serkan Saglam, Mark Zwolinski

20th March 2025					
Session	Time	Room	#Papers	Title	Authors
LBP S3	10:00-11:00	Cosmos 1&2	1	Relational-Based Knowledge Distillation with Multi-Layer Cross-Attention in Ultrasound Elastography Cervical Lymph Node Image Classification	Duan-Yu Chen
short S3-B	12:00-13:00	Cosmos 1&2	8	Improving oral cancer classification via segment-driven photographic deep learning imaging	Marco Parola; Edoardo Malaspina; Mario G.C.A. Cimino; Gaetano La Mantia; Giuseppina Campisi; Olga Di Fede
				Multi-Stage Dimension Reduction for Large-Scale Multi-Objective Feature Selection	Sevil Zanjani Miyandoab; Shahrvar Rahnamayan; Azam Asilian Bidgoli
				IoT-Enabled Edge Architecture for Real-Time Facial Emotion Recognition	James Black; Muhammad Shakir
				Exploring Human Activity Recognition with Acoustic Data: A Comparative Study of CNN-LSTM, ViViT, and ResNet-Temporal Transformer Model	Aalaa Humaidan; Jeny Roy; Sara Sharifzadeh; Ruchita Mehta; Andrea Tales; Joe Macinnes
				Casting defect detection and classification using YoloV5 and YoloV8	Muhammad Awan; Sonya Coleman; Dermot Kerr; Justine Quinn
				Detection of subpixel targets with low fill-fraction: An application to hyperspectral imagery	Ahmad Bitar
				A multi-objective decomposition estimation of distribution algorithm for multilevel thresholding image segmentation	Jorge Ramos-Frutos ; Oscar Ramos-Soto; Angel Casas-Ordaz; Diego Oliva; Itzel Aranguren; Saúl Zapotecas-Martinez; Israel Miguel-Andrés
				Efficient Autoencoders for Anomaly Detection in Distributed Acoustic Sensing Data	Jørgen Aleksander Fagervik; Ole Mengshoel; Anne C. Elster
oral S3-C	14:00-15:00	Cosmos 3ab	4	Real-Time Instance Segmentation for Parking Occupancy Detection Using CNNs	Vincent Lassen; Maximilian Luebke; Norman Franchi
long S3-C	15:00-16:00	Cosmos 1&2	4	Marker-Free Multi-Modal Motion Capture for 6-DoF Object Position and Orientation Estimation	Fuhua JIA; Xiaoying YANG; Jiamin Wang; Ning Xue; Jiawei Li; Tianxiang Cui
Session Chair: TBA				Defining and Benchmarking a Symmetric Kappa+ Preferential Error Metric on Shifting Imbalanced Streaming Data with Label Budgets	Ziyu Qiu; Malcolm Heywood
			(12C)	Simulation-Driven Balancing of Competitive Game Levels with Reinforcement Learning	Florian Rupp; Manuel Eberhardinger; Kai Eckert