

ORAL SESSIONS OF ICPR-2024

Here R1 and R2 means papers accepted from round 1 and round 2 submissions, and COMP means competition papers

December 02, 2024 (11:00 - 12:30 IST)

Oral Session 1

Session Number	Session Chair	Category	Paper IDs	Authors	Paper Title
1-A	Andreas Fisher	Classification	R1-903	Akhmedova, Shakhnaz; Körber, Nils	Next Generation Loss Function for Image Classification
			R2-140	Xia, Yulong; Zhang, Jianwei	ORA-Trans: Object region attention transformer based on key tokens selector with structure feature modeling for fine-grained visual classification
			R2-640	Srivastava, Adit ; Ramagiri, Aravind; Gupta, Puneet; Gupta , Vivek	SANGAM: Synergizing Local and Global Analysis for simultaneous WBC Classification and Segmentation
			R2-459	Cao, Zongjing; Li, Yan; Shin, Byeong-Seok	Attention-Guided Energy-based Model for Out-of-Distribution Data Detection
1-B	Subhasis Chaudhuri	Representation Learning	R1-529	Yang, Chuhong; Li, Bin; Wu, Nan	DSparsE: Dynamic Sparse Embedding for Knowledge Graph Completion
			R1-229	Chen, Shangyu; Yang, Xiaohao; Fang, Pengfei; Harandi, Mehrtash; Phung, Dinh Q; Cai, Jianfei	Stereographic Projection for Embedding Hierarchical Structures in Hyperbolic Space
			R2-33	Cheng, Zhen; Zhu, Fei; Zhang, Xu-Yao; Liu, Cheng-Lin	Delving into Feature Space: Improving Adversarial Robustness by Feature Spectral Regularization
			R2-296	Huang, Zhixin; He, Yujiang; Nivarthi, Chandana Priya; Sick, Bernhard; Gruhl, Christian	Time-Series Representation Learning via Heterogeneous Spatial-Temporal Contrasting for Remaining Useful Life Prediction
1-C	Sebastiano Battiato	Human behavior from images and videos	R1-98	Kim, Hye-Geun; Na, You-Kyoung; Joe, Hae-Won; Moon, Yong-Hyuk; Cho, Yeong-Jun	Re-identification Based on the Spatial-temporal Fusion Network
			R1-403	Hasan, Kazi Reyazul; Adnan, Muhammad Abdullah	EMPATH: MediaPipe-aided Ensemble Learning with Attention-based Transformers for Accurate Recognition of Bangla Word-Level Sign Language
			R1-883	Lee, Ming-Han; Zhang, Yu Chen; WU, KUN-RU; Tseng, Yu-Chee	GolfPose: From Regular Posture to Golf Swing Posture
			R1-260	Xu, Jingwen; Wei, Xiaoge; Yuen, PongChi	Multi-Scale Value-Density Transformer with Medical Semantic Guidance for Disease Risk Prediction based on Clinical Time Series
1-D	Larry Ogorman	Text detection and recognition	R1-55	Muth, Markus; Sablatnig, Robert; Peer, Marco; Kleber, Florian	Advancing Handwritten Text Detection by Synthetic Text
			R1-1298	Mathew, Minesh; Mondal, Ajoy; Jawahar, C.V.	Towards Deployable OCR Models for Indic Languages
			R2-335	Xu, Shuo; Zhuang, Zeming; Li, Mingjun; Su, Feng	Arbitrary-Shaped Scene Text Recognition with Deformable Ensemble Attention
			R2-283	Han, Zhiwang; Yadikar, Nurbiya; Xuebin, Xu; Aysa, Alimjan ; Ubul, Kurban	Oracle Character Recognition Based on Attention Enhancement and Multi-scale Feature Fusion

December 02, 2024 (16:30 - 18:30 IST)

Oral Session 2

Session Number	Session Chair	Category	Paper IDs	Authors	Paper Title
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2-A	Joao Paulo Papa	Classification and adaptation	R1-41	Vavilthota, Venkata R; Ramanathan, Ranjith; Aakur, Sathyanarayanan N	Capturing Temporal Components for Time Series Classification
			R1-234	Gupta, Ravi Kant; Das, Shounak ; Sethi, Amit	IDAL: Improved Domain Adaptive Learning for Natural Images Dataset
			R1-699	Gupta, Ravi Kant; P, Chirag; Wagle, Mukta G; Jeevan P, Pranav ; Sethi, Amit	CHATTY: Coupled Holistic Adversarial Transport Terms with Yield for Unsupervised Domain Adaptation
			R1-1150	Makhija, Shradha; Mandal, Srimanta; Pandya, Utkarsh; Chirakkal, Sanid; Putrevu, Deepak	PoISAR Image Classification Using Complex-Valued Squeeze and Excitation Network
			R1-1520	Mahmud, Hasanul I; Desai, Kevin; Lama, Palden; Prasad, Sushil	EncodeNet: A Framework for Boosting DNN Accuracy with Entropy-driven Generalized Converting Autoencoder
			R1-1533	Jiu, Mingyuan; zhu, hailong; Sahbi, Hichem	Deep Multi-order Context-aware Kernel Network for Multi-label Classification
2-B	Keiji Yanai	Neural networks and deep learning - I	R1-488	chen, qiyun; diao, boyu; Yang, Yu; xu, yongjun	SCP: A Structure Combination Pruning method via Structured Sparse for Deep Convolutional Neural Networks
			R1-511	jarraya, zakaria; Rousseau, Francois; Benaichouche, Simon; Drumetz, Lucas; Ben Salem, Douraied	On divergence-free neural ODE for classification
			R1-219	Becker, Marlon; Butz, Marco; Lemli, David; Schuck, Carsten; Risse, Benjamin	Learning Proposal Distributions in Simulated Annealing via Template Networks: A Case Study in Nanophotonic Inverse Design
			R1-1498	Bennabhaktula, Guru Swaroop; Alegre, Enrique; Strisciuglio, Nicola; Azzopardi, George	PushPull-Net: Inhibition-driven ResNet robust to image corruptions
			R1-1605	Zhou, Xuan; Kundu, Souvik; Chen, Dake; Huang, Jie; A. Beerel, Peter	What makes vision transformers robust towards bit-flip attack?
			R2-221	Liu, Yunfeng; Jung, Cheolkon	DWT-SALF: Subband Adaptive Neural Network Based In-Loop Filter for VVC Using Cyclic DWT
2-C	In Kyu Park	Motion and video analysis	R1-93	Benaglia, Riccardo; Porrello, Angelo; Buzzega, Pietro; CALDERARA, SIMONE; Cucchiara, Rita	Trajectory Forecasting through Low-Rank Adaptation of Discrete Latent Codes
			R1-225	Hannan, Tanveer; Koner, Rajat; Bernhard, Maximilian; Shit, Suprosanna; Menze, Bjoern; Tresp, Volker; Schubert, Matthias; Seidl, Thomas	GRAt-VIS: Gated Residual Attention for Video Instance Segmentation
			R1-789	Liao, Bor-Chen; Wu, Jie-Syuan; Hsu, Gee-Sern; Kang, Jiunn-Horng ; Tang, Chen-Lung	3D Pose-based Evaluation of the Risk of Sarcopenia
			R1-891	Zang, Han; Xu, Tianyang; Zhu, Xue-Feng; Song, Xiaoning; Wu, Xiao-Jun; Kittler, Josef	Attention-based Patch Matching and Motion-driven Point Association for Accurate Point Tracking
			R1-1292	Guo, Song; Liu, Rujie; Narishige, Abe	RTAT: A Robust Two-stage Association Tracker for Multi-Object Tracking
			R1-171	Roy, Debaditya; Fernando, Basura	Predicting the Next Action by Modeling the Abstract Goal
			R1-79	Ko, Seongwan; Cho, Donghyeon	CSSR: Cross-and Self-Feature Transformer with High-Frequency Feature Alignment for Reference-Based Super-Resolution
			R1-1230	Li, Bing; Yu, Wei; Zheng, Naishan; Huang, Jie; Zhao, Feng	Unsupervised Low-light Image Enhancement via Spectral Consistency

2-D	Jayanta Mukhopadhyay	Image and video processing	R2-110	Li, Tianyi; Tian, Ming; Gao, Changxin; Sang, Nong	Self-Distilled Dual-Network with Pixel Screening Loss for Blind Image Deblurring
			R1-1264	Mo, Fanbin; Huang, Yixiang; Wu, Ming; Zhu, Xun; Zhang, Chuang	MMSISP: A Satellite Image Sequence Prediction Network with Multi-Factor Decoupling and Multi-Modal Fusion
			R2-253	He, Runlin; Zhou, Gang; Xue, Tianhao; Liu, Zhaoxi; Jia, Zhenhong	Deformable Multi-Scale Network for Snow Removal in Video
			R2-321	Li, Mingjun; Zhuang, Zeming; Xu, Shuo; Su, Feng	MPGTSRN: Scene Text Image Super-Resolution Guided by Multiple Visual-Semantic Prompts

December 03, 2024 (10:00 - 11:00 IST)

Oral Session 3

Session Number	Session Chair	Category	Paper IDs	Authors	Paper Title
3-A	Mayank Vatsa	Clustering	R1-648	Cui, Jianbin; Chu, Lingyang	Interpretable Deep Graph-level Clustering: A Prototype-based Approach
			R1-1377	Bangde, Yashwant; Saini, Naveen	Multi-view Ensemble Clustering-based Podcast Recommendation in Indian Regional Setting
			R2-258	Lin, Houshen; Hou, Jian; Yuan, Huaqiang	Adaptive Nearest Neighbor Density Peak Clustering Based On Fuzzy Logic
3-B	Guoying Zhao	Online and continual learning	R1-836	Kim, Minha; Bhaumik, Kishor Kumar; Ahsan Ali, Amin; Woo, Simon S	MIXAD: Memory-Induced Explainable Time Series Anomaly Detection
			R1-42	Mosconi, Matteo; Sorokin, Andriy; Panariello, Aniello; Porrello, Angelo; Bonato, Jacopo; Cotogni, Marco; Sabetta, Luigi; CALDERARA, SIMONE; Cucchiara, Rita	Efficient Continual Human Action Recognition using Skeletons
			R2-127	Feillet, Eva; Popescu, Adrian; Hudelot, Céline	Recommendation of data-free class-incremental learning algorithms by simulating future data
3-C	Arpan Pal	Action and behavior recognition	R1-384	Zou, Yishan; Nugent, Chris; Burns, SURESH DASS, SHARANA	Towards Open-set Egocentric Action Recognition with Uncertainty Estimation
			R1-1090	DHARSHIKGAN; Barua, Hrishav Bakul; Krishnasamy, Ganesh; Paramesran, Raveendran; Phan, Raphael CW	ActNetFormer: Transformer-ResNet Hybrid Method for Semi-Supervised Action Recognition in Videos
			R2-26	Shin, Jongmin; Maiti, Abhishek; Zou, Yuliang; Choi, Jinwoo	Multi-Teacher Invariance Distillation for Domain-Generalized Action Recognition
3-D	Shang Hong Lai	Computer aided diagnostics	R1-1779	Yang, Ge; Qing, Linbo; Zhang, Yanteng; Gao, Feng; Gao, Li; He, Xiaohai; Peng, Yonghong	An attention transformer-based method for the modelling of functional connectivity and the diagnosis of autism spectrum disorder
			R2-13	Wang, Shiyun; Xu, Yongchao	Auxiliary Information Guided Segmentation for the Clinical Target Volume of Cervical Cancer
			R1-992	Macias, Eric Macias; Morales, Aythami; Pruenza, Cristina; Fierrez, Julian	Privacy-Preserving Statistical Data Generation: Application to Sepsis Detection

December 03, 2024 (11:30 - 12:30 IST)

Oral Session 4

Session Number	Session Chair	Category	Paper IDs	Authors	Paper Title
			R1-620	Wang, Yongyu; Zhuang, Xiaotian	Mitigating the Impact of Noisy Edges on Graph-Based Algorithms via Adversarial Robustness Evaluation

4-A	Michal Haindl	Graph models	R1-87	Yin, Naiyu; Yu, Yue; Gao, Tian; Ji, Qiang	Efficient Nonlinear DAG Learning under Projection Framework
			R1-913	Wu, Qi; Yang, Yingguang; He, Buyun; liu, hao; Yang, Renyu; Liao, Yong; Zhou, Pengyuan	BotSCL: Heterophily-aware Social Bot Detection with Supervised Contrastive Learning
4-B	Vishal Patel	Few-shot and zero-shot learning	R1-323	Nair, Nilah Ravi; Matei, Arthur; Krön, Dennis; Moya Rueda, Fernando; Reining, Christopher; Fink, Gernot A.	Augmentation of Human Activity Data: Convert, Generate, Transform
			R1-640	Chen, Liangyuan; He, Zhenan; Zhang, Hai	Image Domain Translation for Few-Shot Learning
			R1-705	Sinha, Abhishek Kumar; Mishra, Deepak; S, Manthira Moorthi	Towards Adversarial Robustness and Reducing Uncertainty Bias through Expert Regularized Pseudo-Bidirectional Alignment in Transductive Zero Shot Learning
4-C	Ross Whitaker	Fine-grained recognition	R1-1588	Zhou, Beichen; Bi, Qi; Ding, Jian; Xia, Gui-Song	Boosting Fine-Grained Oriented Object Detection via Text Features
			R1-108	Moratelli, Nicholas; Cornia, Marcella; Baraldi, Lorenzo; Cucchiara, Rita	Fluent and Accurate Image Captioning with a Self-Trained Reward Model
			R1-438	Frank, Hannah; Vetter, Karl; Varga, Leon; Wolff, Lars; Zell, Andreas	Hyperspectral Imaging for Characterization of Construction Waste Material in Recycling Applications
4-D	Bob Fisher	3D vision	R1-309	Wan, Junkang; Miao, Yubin; Wu, Hang	Multimodal Point Cloud Completion via Residual Attention Feature Fusion
			R1-410	Pathak, Stuti; McDonald, Thomas M; Sels, Seppe; Penne, Rudi	GP-PCS: One-shot Feature-Preserving Point Cloud Simplification with Gaussian Processes on Riemannian Manifolds
			R1-352	Nakano, Gaku	Inverse DLT method for One-sided Radially Distortion Homography

December 03, 2024 (16:30 - 18:30 IST)

Oral Session 5

Session Number	Session Chair	Category	Paper IDs	Authors	Paper Title
5-A	Marwan Torki	Deep learning - I	R1-315	Liu, Zhoufeng; li, bingrui; Ding, Shumin; Xi, Jiangtao; Li, Chunlei	Cross-Domain Calibration and Boundary Denoising Network for Weakly Supervised Semantic Segmentation
			R1-808	Yang, Jie; Jing, LiWei; Xu, Yuanzhuo; Wu, Shaowu; Drew, Steve; Niu, Xiaoguang	Label-expanded Feature Debiasing for Single Domain Generalization
			R1-1066	Oehri, Sven; Ebert, Nikolas; Abdullah, Ahmed; Stricker, Didier; Wasenmüller, Oliver	GenFormer - Generated Images are All You Need to Improve Robustness of Transformers on Small Datasets
			R1-319	Lu, GuangTong; Du, Weidong; Li, Fanzhang	EFLLD-NET: Enhancing Few-Shot Learning With Local Descriptors
			R1-542	Bylander, Karl; Nyström, Ingela; Bengtsson Bernander, Karl	Equivariant Neural Networks for TEM Virus Images Improves Data Efficiency
			R1-924	Liu, Jie; LI, QILIN; An, Senjian; Ezard, Brad; Li, Ling	EdgeConvFormer: an unsupervised anomaly detection method for multivariate time series
5-B	Santanu Chaudhuri	Weakly supervised and partial label	R1-559	Iqbal, Owais ; Chakraborty, Omprakash; Hussain, Aftab; Panda, Rameswar; Das, Abir	SITAR: Semi-Supervised Image Transformer for Action Recognition
			R1-725	Hirner, Dominik; Fraundorfer, Friedrich	SAda-Net: A Self-Supervised Adaptive Stereo Estimation CNN for Remote Sensing Image Data
			R1-1117	Jiang, Xiaoheng; Xiao, Penghui; Yan, Feng; Lu, Yang; Jin, Shaohui; Xu, Mingliang	Context Mutual Evolution Network for Weakly Supervised Surface Defect Detection

	Chandran	learning	R1-1196	Borah, Parashjyoti; Dutta, Aparajita	Conditional Probability-based Feature Embedding for Genomic Sequence Data
			R1-1263	Xu, Fankang; Qian, Wenbin; Cai, Xingxing; Huang, Jintao; CHEUNG, Yiu-ming; Ding, Weiping	Label Disambiguation-based Feature Selection for Partial Multi-Label Learning
			R2-168	Wang, Naihao; Yang, Yukun; Yang, Haixin; Li, Ruirui	Enhancing Fairness and Robustness in Label-Noise Learning through Advanced Sample Selection and Adversarial Optimization
5-C	Bertrand Kerautret	Object detection and recognition	R1-114	Marichal, Henry; Passarella, Diego N.; Randall, Gregory	Automatic Wood Pith Detector: Local Orientation Estimation and Robust Accumulation
			R1-560	Maglo, Adrien; Audigier, Romaric	Early Features Distributions Alignment in Visible-to-thermal Unsupervised Domain Adaptation for Object Detection
			R1-1212	Purkayastha, Kunal; Sarkar, Shashwat ; Palaiahnakote, Shivakumara; Pal , Umapada; Ghosal, Palash	DATR: Domain Agnostic Text Recognizer
			R1-1394	Wang, Jinzhong; Tian, Xuetao; Dai, Shun; Zhuo, Tao; Zeng, Haorui; Liu, Hongjuan; Liu, Jiaqi; Zhang, Xiuwei; Zhang, Yanning	RGB-T Object Detection via Group Shuffled Multi-receptive Attention and Multi-modal Supervision
			R2-56	Zhong, WenLong; Zhang, Yunfei ; Wu, Si	Environment-Independent Fusion for Robust Object Detection in Adverse Environments
			R2-499	Quan, Yitong; Kiefer, Benjamin; Messmer, Martin; Akupati, Charan; Graser, Rainer; Zell, Andreas	Robust Single-Cam Surround View Object Detection and Localization Using Memory Maps
5-D	Ajay Kumar	Biometrics and benchmarking	R1-1265	Pandey, Anurag; Singh, Pushap; Bhavsar, Arnav; Nigam, Aditya; Acharya, Dr. Divya; Verma, Basu	SIGN-Diffusion: Generating User Specific Online Signature For Digital Verification
			R1-62	Chen, Hongxu; Xiong, Jianghao; Huang, YuHeng; Xie, Xiaohua; Lai, Jian-Huang	Visible-Infrared Person Search: A Novel Benchmark and Solution
			R1-975	Solano Martinez, Imanol; Peña, Alejandro; Morales, Aythami; Fierrez, Julian; Tolosana, Ruben; Zamora Martinez, Francisco; San Agustin, Javier	Comprehensive Equity Index (CEI) with Application to Measure Bias in Operational Face Recognition Systems
			R1-1769	Bowditch, Margaux; van der Haar, Dustin T	AnnChor: A Video Dataset for Temporal Action Localization in Classical Ballet Choreography
			R2-631	Che, Hekuanyi; Zhu, Dongchen; Shi, Wenjun; Zhang, Guanghui; Li, Hang; Wang, Lei; Li, Jiamao	IPHGaze: Image Pyramid Gaze Estimation with Head Pose Guidance
			R2-218	Zhang, Ruoqi; Shen, Peisong; Lv, Kewei; Chen, Chi	One-factor Cancelable Biometric Template Protection Scheme for Real-valued Features

December 04, 2024 (10:00 - 11:00 IST)

Oral Session 6

Session Number	Session Chair	Category	Paper IDs	Authors	Paper Title
6-A	Ida-Maria Sintorn ida	Neural networks and deep learning - II	R2-260	TURINICI, Gabriel	Optimal time sampling in physics-informed neural networks
			R2-281	teng, sun; Xiao, Xiaoqiang; Zhang, Xu; Ning, Weixun	HeFormer: A Lightweight Transformer Combining Hash Estimation for Link Prediction
			R2-365	Wang, Yu; Du, Bo; Wu, Shufan; Yang, Xingli	A Hyperparameter Optimization Method Based on Statistical Orthogonal Design for Neural Network Models

6-B	JENNY BENOIS-PINEAU	Multimodal and multi-label learning	R1-149	Menadil, Rafael Edy; Georgescu, Mariana-Iuliana; Ionescu, Radu Tudor	Learning Using Generated Privileged Information by Text-to-Image Diffusion Models
			R1-1309	Chen, Wei; Li, Xiaofei; Long, Sheng; Lei, Jun; LI, Shuohao; Zhang, Jun	Feature Balance Method for Multi-modal Entity Alignment
			R1-677	Rawlekar, Samyak; Bhatnagar, Shubhang; Srinivasulu, Vishnuvardhan Pogunulu; Ahuja, Narendra	Improving Multi-label Recognition using Class Co-Occurrence Probabilities
6-C	Maria De Marsico	Learning for vision	R1-49	Liu, Mingxuan; Roy, Subhankar; Zhong, Zhun; Sebe, Nicu; Ricci, Elisa	A Frustratingly Simple Baseline for Incremental Novel Class Discovery
			R1-378	Li, Guonan; Yao, Meibao; Xiao, Xueming	Layer-wise Pruning Ratios Auto-configuration: a One-Shot Channel Pruning through Sensitivity and Spatial Analysis
			R2-305	Bravo-Rocca, Gusseppe; Liu, Peini; Guitart, Jordi; Dholakia, Ajay; Ellison, David D	TADIL: Task-Agnostic Domain-Incremental Learning through Task-ID Inference using Transformer Nearest-Centroid Embeddings
6-D	Gernot Fink	Document understanding	R1-1672	Roy, Ayush ; Palaiahnakote, Shivakumara; Pal , Umapada; Antonacopoulos, Apostolos; Blumenstein, Michael	XLSI: A New Xception and Log Polar Transform-based Approach for Scene Text Script Identification
			R1-950	li, shuai; Li, Xiao-Hui; yin, Fei; Huang, Linlin	Region-Level Layout Generation for Multi-Level Pre-trained Model based Visual Information Extraction
			R1-1679	Goswami, Shreya; Saini, Naveen ; Shukla, Saurabh	Incorporating Domain Knowledge in Multi-objective Optimization Framework For Automating Indian Legal Case Summarization

December 04, 2024 (16:30 - 18:30 IST)

Oral Session 7

Session Number	Session Chair	Category	Paper IDs	Authors	Paper Title
7-A	Jean Marc Ogier	Deep learning - II	R1-1353	Jena, Sushovan; Saini, Vishwas; Shaw, Ujjwal; Jain, Pavitra; Raihal, Abhay Singh; Banerjee, Anoushka; Joshi, Sharad; Ganesh, Ananth; Bhavsar, Arnav	Attend, Distill, Detect: Attention-aware Entropy Distillation for Anomaly Detection
			R2-8	Shi, Xiaodan; Zhang, Haoran; Shibasaki, Ryosuke; Yan, Jerry	Learning Social and Physical Compliant Multi-Modal Futures
			R1-1661	Saha, Surojit; Joshi, Sarang; Whitaker, Ross	Matching aggregate posteriors in the variational autoencoder
			R2-257	Ye, Zhengming; Hua, Yang; Zhang, Wenjie; Song, Xiaoning; Feng, Zhenhua; Wu, Xiao-Jun	A Novel Loss for Contrastive Deep Supervision
			R2-294	Vemuri, Sai Karthikeya; Büchner, Tim; Niebling, Julia; Denzler, Joachim	Functional Tensor Decompositions for Physics-Informed Neural Networks
			R2-425	Iwase, Shun; Maeda, Eisaku; Inoue, Nakamasa; Kataoka, Hirokatsu; Nakamura, Ryo; Yokota, Rio; Takahashi, Shuya	On the Relationship Between Double Descent of CNNs and Shape/Texture Bias Under Learning Process
			R1-745	Kottler, Benedikt; Qiu, Kevin Y; Häufel, Gisela; Bulatov, Dimitri	A Stratified Pipeline for Vehicle Inpainting in Orthophotos

7-B	Xiaojun Wu	Image analysis and recognition	R1-955	Zhang, Shizhou; Dang, Kairui; Cheng, De; Xing, Yinghui; Wu, Qirui; Kong, Dexuan; Zhang, Yanning	Dual-Branch Task Residual Enhancement With Parameter-free Attention for Zero-Shot Multi-Label Image Recognition
			R2-169	Ray, Lala Shakti Swarup; Zhou, Bo; Krupp, Lars; Suh, Sungho; Lukowicz, Paul	A Synthetic Benchmarking Pipeline to Compare Camera Calibration Algorithms
			R2-214	Lee, Keuntek; Park, JaeHyun; Cho, Nam Ik	Enhancing Multi-Exposure High Dynamic Range Imaging with Overlapped Codebook for Improved Representation Learning
			R2-303	Yu, Huiyuan; He, Jia; Cheng, Maggie	Fast Orthogonal Matching Pursuit through Successive Regression
			R2-11	Zhu, Huachao; Sun, Zhichao; Liu, Zelong; Xu, Yongchao	P2A: Transforming Proposals to Anomaly Masks
7-C	Pabitra Mitra	Information extraction and NLP	R1-830	Faren, Yan; Peng, Yu; Xin, Chen	LTNER: Large Language Model Tagging for Named Entity Recognition with Contextualized Entity Marking
			R1-801	Dehan, Farhan Noor; Fahim, Md; Rahman, A K M Mahbubur; Amin, M Ashraful; Ahsan Ali, Amin	TinyLLM Efficacy in Low-Resource Language: An Experiment on Bangla Text Classification Task
			R1-902	Jeon, Jangyeong; Cho, Sangyeon; Ma, Minuk; Kim, Junyeong	ConCSE: Unified Contrastive Learning and Augmentation for Code-Switched Embeddings
			R1-1396	Zhu, Anran; Huang, Yubo; Lai, Xin; Zhou, Zhiyuan	Navigating Data Imbalances in Cybersecurity: Identifying Malicious URLs with Multiple Labels and Extreme Data Imbalances with LGNet
			R2-10	Hasan, Md. Maruf ; Ahsan, Shawly ; Hoque, Mohammed Moshikul; Dewan, M. Ali Akber	MuLAD: Multimodal Aggression Detection from Social Media Memes Exploiting Visual and Textual Features
			R2-464	Lin, Zihao; Xiao, Shunxin; Chen, Zirong; Wang, Da-Han; Li, Jianmin; Zhang, Xu-Yao	SANS: Spatial-aware Neural Solver for Plane Geometry Problem
7-D	Lale Akarun	Biomedical imaging and brain computer interface	R1-458	Kundu, Souraja; Iwahori, Yuji; Bhuyan, M K; Bhatt, Manish; Kijirikul, Boonserm ; wang, aili; Ouchi, Akira; Shimizu, Yasuhiro	Cross-modality Medical Image Registration with Local-Global Spatial Correlation
			R2-126	Yang, Zhiyuan; Zhang, Bo; Zeng, Zhiqiang; Yeo, Si Yong	Edge-guided and Cross-scale Feature Fusion Network for Efficient Multi-contrast MRI Super-Resolution
			R1-850	Zhu, Xu; Yue, Kun; Qi, Zhiwei; Su, Yunshan; Duan, Liang	Directed Brain Network Transformer for Psychiatric Diagnosis
			R2-192	Osa, Ainhoa; Balaha, Hossam Magdy; Mahmoud, Ali; Abdelrahim, Mostafa; Khudri, Mohamed; Garcia Zapirain, Begonya; El-Baz, Ayman	A Cascading Approach with Vision Transformers for Age-Related Macular Degeneration Diagnosis and Explainability
			R1-545	Lotey, Taveena; Verma, Aman; Roy, Partha Pratim	EEG-based Mental Imagery Task Adaptation via Ensemble of Weight-Decomposed Low-Rank Adapters
			R1-1420	Siddhad, Gourav; Dey, Sayantan ; Roy, Partha Pratim; Iwamura, Masakazu	Awake at the Wheel: Enhancing Automotive Safety through EEG-Based Fatigue Detection
			COMP-2	Alessia Rondinella, Francesco Guarnera , Elena Crispino, Giulia Russo, Clara Di Lorenzo, Davide Maimone, Francesco Pappalardo, Sebastiano Battiato	ICPR 2024 Competition on Multiple Sclerosis Lesion Segmentation - Methods and Results
			COMP-5	Xin Zhang, Liangxiu Han	ICPR 2024 Competition on Beyond Visible Spectrum: AI for Agriculture

7-E	Eglin veronique	Competition Papers	COMP-6	Boyang Li	ICPR 2024 Competition on Resource-Limited Infrared Small Target Detection Challenge: Methods and Results
			COMP-7	Qian Yin, Yulan Guo, Feng Zhang, Yuting Xie, Ye Zhang, Huaiyu Chen, Hanyun Wang, Han Wang, Furui Chen, Rong Yang, Silei Liu	ICPR 2024 Competition on Moving Object Detection and Tracking in Satellite Videos: Methods and Results
			COMP-10	Harsh Lunia, Ajoy Mondal, C.V. Jawahar	ICPR 2024 Competition on Word Image Recognition from Indic Scene Images
			COMP-13	Furqan Shaik, Sandeep Nagar, Sunny Manchanda, Kunal Chaudhary, Girish Varma	ICPR 2024 Competition on Safe Segmentation of Drive Scenes in Unstructured Traffic and Adverse Weather Conditions

December 05, 2024 (09:00 - 11:00 IST)

Oral Session 8

Session Number	Session Chair	Category	Paper IDs	Authors	Paper Title
8-A	Josep Lladós	Deep learning and applications	R2-165	Cao, Yunxiang; Chen, Li; Wang, Yubo; Feng, Zhida; Tian, Jing	DD-Net: Dynamic Network Architecture for Optimized Curve Segmentation and Reduce Computational Redundancy
			R1-1038	Lin, JiaQi; Ren, Qianqian; Xu, Hui	Multi-views Enhanced Spatio-Temporal Adaptive Transformer for Urban Traffic Prediction
			R1-1060	Song, Chengcheng; Li, Hui; Xu, Tianyang; Zhang, Zeyang; Wu, Xiao-Jun	IFFusion: Illumination-free Fusion Network for Infrared and Visible Images
			R2-544	xu, ke; Zhang, Qian; Yang, Fei; jiang, zhanghao; LEE, BOON GIIN	Task Oriented Image Quality Assessment for Synthesized Images
			R1-94	Gan, Dongwei; Chang, Ming; Chen, Juan	3D-EffViTCaps: 3D Efficient Vision Transformer with Capsule for Medical Image Segmentation
			R1-1103	Yin, Hang; Zhang, Yanming; Tan, JiHua; Liu, Cheng-Lin	STAFNet: Spatiotemporal-Aware Fusion Network for Air Quality Prediction
8-B	Paulo Drews Jr	Vision for robotics and autonomous driving	R2-304	Qian, Chenghao; Rezaei, Mahdi; Anwar, Saeed; Li, Wenjing; Hussain, Tanveer; Azarmi, Mohsen; Wang, Wei	AllWeather-Net: Unified Image Enhancement for Autonomous Driving Under Adverse Weather and Low-Light Conditions
			R2-382	Yang, Zhiyuan; wang, xuekuan; Zhang, Wei; Tan, Xiao; Lu, Jincheng; Wang, Jingdong; Ding, Errui; Lai, Zhihui; zhao , cairong	Uni4DAL: A Unified Baseline for Multi-dataset 4D Auto-Labeling
			R2-338	du, zetao; Yang, Jianhua; Wang, Junbo; Huang, Yan; Wang, Liang	SPK: Semantic and Positional Knowledge for Zero-shot Referring Expression Comprehension
			R1-988	Wen, Congcong; Huang, Yisiyuan; Huang, Hao; Huang, Yanjia; Yuan, Shuaihang; Hao, Yu; hui, lin; Liu, Yu-Shen; Fang, Yi	Zero-shot Object Navigation with Vision-Language Models Reasoning
			R2-343	Ming, Wenwen; chen, xucan; Liu, Zhe; Li, Ruihao; Yi, Wei	Hierarchical Visual Place Recognition with Semantic-guided Attention
			R2-546	Chen, Zeyuan; Wang, Ziquan; Gao, Qiang; Mikawa, Masahiko; Fujisawa, Makato	Dense Reconstruction and Localization in Scenes with Glass Surfaces Based on ORB-SLAM2
			R1-503	Zhou, Huali; Lin, Yuke; Liu, Dong; Li, Ming	KunquDB: An Attempt for Speaker Verification in the Chinese Opera Scenario

8-C	Shivakumara Palainakote	Audio and speech processing	R2-244	Zhang, Jiang; Wang, Liejun; Yu, Yinfeng; Xu, Miaomiao; Mattursun, Alimjan	Collaborative Transformer Decoder Method for Uyghur Speech Recognition in-vehicle Environment
			R1-1349	V, kesavaraj; M, Anuprabha; Vuppala, Anil	End-to-End user defined keyword spotting using shifted delta coefficients
			R1-198	Wang, Qinghai; Liu, Shiguang	MTIQA360: An Easily Trainable Multitasking Network for Blind Omnidirectional Image Quality Assessment
			R1-825	Mukherjee, Himadri; Marciano, Matteo; Dhar, Ankita; Roy, Kaushik	EDM10: A Polyphonic Stereo dataset with Identical BGM for Musical Instrument Identification
			R1-1543	Zhang, Zhedong; Li, Liang; zhang, jiehua; HU, Zhenghui; Wang, Hongkui; Yan, Chenggang; Yang, Jian; Qi, Yuankai	GENERATING HIGH-QUALITY SYMBOLIC MUSIC USING FINE-GRAINED DISCRIMINATORS
8-D	Ananda Chowdhury	Medical imaging and applications	R1-543	Thota, Gokaramaiah; K, Nagaraju; Korra, Sathya Babu	SVD-Grad-CAM: Singular Value Decomposition filtered Gradient Class Activation Map
			R1-1722	Varshney, Payal; Lucieri, Adriano; Balada, Christoph; Dengel, Andreas; Ahmed, Sheraz	Generating Counterfactual Trajectories with Latent Diffusion Models for Concept Discovery
			R1-1017	Elsharkawy, Mohamed; Abdelhalim, Ibrahim; Ghazal, Mohammed; Haq, Mohammad Z.; Haq, Rayan; Mahmoud, Ali; Thanos, Aristomenis ; Sandhu, Harpal; El-Baz, Ayman S	TransNetOCT: An efficient Transformer-Based Model for 3D-OCT Segmentation using Prior Shape
			R1-1352	Agarwal, Snigdha; Sinha, Neelam	Self-supervised Siamese Network Using Vision Transformer for Depth Estimation in Endoscopic Surgeries
			R2-561	Azam, Mohamed; Balaha, Hossam Magdy; Gondim, Dibson; Mistry, Akshitkumar; Ghazal, Mohammed; El-Baz, Ayman S	Histopathological Diagnosis of Meningioma and Solitary Fibrous Tumors Based on a Multi-scale Fusion Approach Utilizing Vision Transformer and Texture Analysis
			R2-388	Dey, Shramana; Dutta, Pallabi; Bhattacharyya, Riddhasree; Pal Das, Surochita ; Mitra, Sushmita; Raman, Rajiv	Adaptive Class Learning to Screen Diabetic Disorders in Fundus Images of Eye

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Oral Session 9

Session Number	Session Chair	Category	Paper IDs	Authors	Paper Title
9-A	Saumik Bhattacharyya	Generative models	R1-296	Liu, Yibin; Zhang, Jianyu; Zhang, Li; Li, Shijian; Pan, Gang	A Framework For Image Synthesis Using Supervised Contrastive Learning
			R1-953	Nazarieh, Fatemeh; Kittler, Josef; Awais, Muhammad; Kanojia, Diptesh; Feng, Zhenhua	StableTalk: Advancing Audio-to-Talking Face Generation with Stable Diffusion And Vision Transformer
			R1-1381	Hung, Tso-Sung; Lai, Shang-Hong	Domain Adaptation for Machinery Fault Diagnosis Based on Critic Classifier GAN
			R1-1555	Zhang, Liang; Yeasin, Mohammed ; Lin, Jionghao; Hu, Xiangen; Havugimana, Felix	Generative Adversarial Networks for Imputing Sparse Learning Performance
			R1-1559	Liu, Pan; Zhou, Jianping; Tian, Xiaohua; Lin, Zhouhan	SWave: Improving Vocoder Efficiency by Straightening the Waveform Generation Path

			R2-163	Nguyen, Duc Minh; Yang, Hyung-Jeong; Kim, Soo-Hyung; Kim, Seung-Won	Latent Behavior Diffusion for Sequential Reaction Generation in Dyadic Setting
9-B	Hajime Nagahara	AI applications	R1-1300	Wu, Xing; Cai, Chengyou; Wang, Jianjia; Yao, Junfeng; Song, Jun	STMAE: Spatial Temporal Masked Auto-Encoder for Traffic Forecasting
			R2-587	Mondal, Koustav Kumar; Das, Debasis	GUARDEV: Guided Unified Adaptive Response for Defending Electric Vehicles
			R2-45	Nader, Rafic; L'Allinec, Vincent; Bourcier, Romain; Autrusseau, Florent	Vascular Models (VaMos): Application to bifurcation classification and aneurysm detection
			R1-76	Dai, Weinan; Jiang, Yifeng; Liu, Yuanjing; Chen, Jinkun; Sun, Xin; Tao, Jinglei	CAB-KWS: Contrastive Augmentation: An Unsupervised Learning Approach for Keyword Spotting in Speech Technology
			R2-53	Li, ShuPeng; Qi, ZhaoHui	Efficient Prescribed-time and Robust Zeroing Neural Networks for Computing Time-Variant Plural Stein Matrix Equation
			R2-122	Anita, Stefana-Lucia; TURINICI, Gabriel	Convergence of a L2 regularized Policy Gradient Algorithm for the Multi Armed Bandit
			9-C	Wolfgang Fuhl	Image segmentation and detection
R1-576	Sharafeldeen, Ahmed; Khelifi, Adel; Ghazal, Mohammed; Yaghi, Maha; Mahmoud, Ali; Contractor, Sohail ; El-Baz, Ayman S	Unsupervised Segmentation of Pulmonary Regions in 3D CT Scans Optimized using Transformer Model			
R1-1582	Xu, Wenbo; Wu, Yanan; Jiang, Haoran; Wang, Yang; Wu, Qiang; Zhang, Jian	Task Consistent Prototype Learning for Incremental Few-shot Semantic Segmentation			
R1-858	Liang, Wen; RAN, PEIPEI; Bai, Mengchao; Liu, Xiao; Githinji, P.Bilha; Zhao, Wei; Qin, Peiwu	External Prompt Features Enhanced Parameter-efficient Fine-tuning for Salient Object Detection			
R1-1479	Osa, Priscilla I; Zerubia, Josiane; Kato, Zoltan	AYANet: A Gabor Wavelet-based and CNN-based Double Encoder for Building Change Detection in Remote Sensing			
R1-193	Li, Lu; Shi, Yanjiao; Yang, Jinyu; Zhou, Qiangqiang; ZHANG, Qing; Cui, Liu	Transformer-based Depth Optimization Network for RGB-D Salient Object Detection			
9-D	Andrej Przybyszewski	Medical image analysis	R1-652	Das, Abhijit; Gorade, Vandan; Mahapatra, Dwarikanath; Roy, Sudipta	SEANet: Synergistic Spatial-Spectral Residual Encoder-Decoder Network for LDCT Denoising
			R1-1497	Gorade, Vandan; Mittal, Sparsh; Jha, Debesh; Singhal, Rekha; Bagci, Ulas	Harmonized Spatial and Spectral Learning for Generalized Medical Image Segmentation
			R1-1721	Hu, Ming; Yin, Jianfu; Wang, Jing; Wang, Yuqi; Hu, Bingliang; Wang, Quan	SpecSlice-ConvLSTM: Medical Hyperspectral Image Segmentation using Spectral Slicing and ConvLSTM
			R2-93	Rather, Sajad Ahmad; Roy, Partha Pratim; Das, Sujit	Chaos Theory Based Gravitational Search Algorithm For Medical Image Segmentation
			R2-451	Mahato, Anuradha; Banerjee, Paromita; Jethava, Rutvik; Duggal, Bhanu; Paul, Angshuman; Vatsa, Mayank ; Singh, Richa	PSIVUS: Atherosclerotic Plaque Segmentation in Intravascular Ultrasound Images via Active Learning
			R2-533	Kulyabin, Mikhail; Sindel, Aline; Pedersen, Hilde; Gilson, Stuart; Baraas, Rigmor C.; Maier, Andreas K	Generalist Segmentation Algorithm for Photoreceptors Analysis in Adaptive Optics Imaging

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Oral Session 10

Session Number	Session Chair	Category	Paper IDs	Authors	Paper Title
10-A	Michael Jenkin	Lightweight AI	R1-967	Fu, Ruigang; Hu, Qingyong; Dong, Xiaohu; Gao, Yinghui; Li, Biao; Zhong, Ping	Lighten CARAFE: Dynamic Lightweight Upsampling with Guided Reassemble Kernels
			R1-312	Pons, Ian Guarim; Yamamoto, Bruno; Reali Costa, Anna Helena; Jordao, Artur	Effective Layer Pruning Through Similarity Metric Perspective
			R1-911	Nauen, Tobias C; Palacio, Sebastian; Dengel, Andreas	TaylorShift: Shifting the Complexity of Self-Attention from Squared to Linear (and Back) using Taylor-Softmax
			R1-1748	Addad, Youva; Lechervy, Alexis; Jurie, Frederic	Balancing Accuracy and Efficiency in Budget-Aware Early-Exiting Neural Networks
10-B	George Azzopardi	Image processing and forensics	R1-666	Giraud, Rémi; Clément, Michaël	Deep Spherical Superpixels
			R2-196	Liu, Ziqi; Guo, Yuan	A Coverless Steganography of Face Privacy Protection with Diffusion Models
			R2-280	Dukre, Adinath Madhavrao; Deshmukh, Vivek Vilas; Kulkarni, Ashutosh C; Phutke, Shruti S; Vipparthi, Santosh Kumar; Murala, Subrahmanyam; GONDE, ANIL BALAJI	Frequency Modulated Deformable Transformer for Underwater Image Enhancement
			R1-260	Tyagi, Divyani; Sandhan, Tushar	Bandwise Attention in CycleGAN for fructose estimation from hyperspectral images
10-C	ABDENOUR HADID	Person recognition and affective computing	R2-264	Huang, Sirong; Zheng, Huicheng	Confidence-Guided Feature Alignment for Cloth-Changing Person Re-identification
			R1-919	Birla, Lokendra; Shukla, Sneha; Saikia, Trishna; Gupta, Puneet	HR-TRACK: An rPPG method for heartrate monitoring using Temporal Convolution Networks
			R1-1209	Zhao, Ziping; Liu, Shizhao; Niu, Mingyue; Wang, Haishuai; Schuller, Bjoern W.	Dense Coordinate Channel Attention Network for Depression Level Estimation from Speech
			R1-218	Xu, Chenyang; FAN, Feiyi; Ke, Guanzhou; Guo, Changru; Wu, Qingyu; shen, jianfei	Parallel Attention Based Network for Human Activity Recognition Using Wearable Devices
10-D	DANIEL LOPRESTI	Signature verification and writer identification	R1-287	Lin, Junxiang; Chen, Zhounan; Liang, Lingyu; Peng, Wenjie; Huang, Shuangping	HANDWRITING TRAJECTORY RECOVERY VIA TRAJECTORY TRANSFORMER WITH GLOBAL RADICAL CONTEXT-AWARE MODULE
			R1-1149	Priya, Kumari; Adak, Chandranath; Chaudhuri, Prof. B B; Blumenstein, Michael	Handwriting Intra-Variability Across Surface Transitions: Implications for Writer Identification
			R2-151	Che, Xin; Akbari, Mohammad; Li, Shaoxin; Yue, David; Zhang, Yong; Chu, Lingyang	Primary Key Free Watermarking for Numerical Tabular Datasets in Machine Learning
			R2-319	Moura, Kecia G; Sabourin, Robert	Offline Handwritten Signature Verification Using a Stream-Based Approach