

Main Conference Program Overview

5th Dec	6th Dec	7th Dec	8th Dec
18:00-20:00	8:30-9:00	09:00-10:00	09:00-10:00
Welcome Reception	Opening Session	Invited Talk 2: Prof. Kavita Bala	Invited Talk 4: Prof. Daniel Lee
	9:00-10:00	10:00-10:30	10:00-10:30
	Invited Talk 1: Prof. Zhi-Hua Zhou	Coffee Break	Coffee Break
	10:00-10:30	10:30-12:15	10:30-12:15
	Coffee Break	Oral Session 3	Oral Session 5
	10:30-12:15	12:15-13:30	12:15-13:30
	Oral Session 1	Lunch	Lunch
	12:15-13:30	13:30-14:30	13:30-15:30
	Lunch	Oral Session 4	Oral Session 6
	13:30-15:30	14:30-15:00	15:30-16:00
	Oral Session 2	Coffee Break	Coffee Break
	15:30-16:00	15:00-17:00	16:00-18:00
	Coffee Break	Poster Session 2	Poster Session 3
	16:00-18:00	17:00-18:00	
	Poster Session 1	Invited Talk 3: Prof. Cordelia Schmid	
	18:30-21:00	18:30-21:00	
	Dinner	Banquet&Spotlight Talk: Laurent Kniep	Scan here for more details.

Tuesday, December 6, 2022

08:00-17:00 Registration (Lobby)

08:30-09:00 Opening (Banyan Ballroom)

9:00-10:00 Invited Talk 1: Prof. Zhi-Hua Zhou (Banyan Ballroom)

10:00-10:30 Coffee Break (Lobby)

10:30-12:15 Oral Session 1 (Banyan Ballroom)

Papers in this session are also in Poster Session 1

Format (12 min. for presentation+3 mins for questions)

- [1030] #352 Meta-Det3D: Learn to Learn Few-Shot 3D Object Detection *Shuaihang Yuan, Xiang Li, Hao Huang, Yi Fang*
- [1045] #538 DIG: Draping Implicit Garment over the Human Body *Ren Li, Benoit Guillard, Edoardo Remelli, Pascal Fua*
- [1100] #135 Point Cloud Upsampling via Cascaded Refinement Network *Hang Du, Xuejun Yan, Jingjing Wang, Di Xie, Shiliang Pu*
- [1115] #139 CVLNet: Cross-View Semantic Correspondence Learning for Video-based Camera Localization *Yujiao Shi, Xin Yu, Shan Wang, HONGDONG LI*
- [1130] #344 SymmNeRF: Learning to Explore Symmetry Prior for Single-View View Synthesis *Xingyi Li, Chaoyi Hong, Yiran Wang, Zhiguo Cao, Ke Xian, Guosheng Lin*
- [1145] #745 Neural Deformable Voxel Grid for Fast Optimization of Dynamic View Synthesis *Xiang Guo, Guanying CHEN, Yuchao Dai, Xiaoqing Ye, Jiadai Sun, Xiao Tan, Errui Ding*
- [1200] #935 OVPT: Optimal Viewset Pooling Transformer for 3D Object Recognition *Wenju Wang, Gang Chen, Haoran Zhou, Xiaolin Wang*

12:15-13:30 Lunch (Banyan Room)

13:30-15:30 Oral Session 2 (Banyan Ballroom)

Papers in this session are also in Poster Session 1

Format (12 min. for presentation+3 mins for questions)

- [1330] #385 Augmenting Softmax Information for Selective Classification with Out-of-Distribution Data *Guoxuan Xia, Christos-Savvas Bouganis*
- [1345] #68 Boosting Dense Long-Tailed Object Detection from Data-Centric View *Weichen Xu, Jian Cao, Tianhao Fu, Hongyi Yao, Yuan Wang*
- [1400] #148 Efficient Hardware-aware Neural Architecture Search for Image Super-resolution on Mobile Devices *Xindong Zhang, Hui Zeng, Lei Zhang*
- [1415] #167 Diffusion Models for Counterfactual Explanations *Guillaume Jeanneret, Loic Simon, Frederic Jurie*
- [1430] #423 What Role Does Data Augmentation Play in Knowledge Distillation? *Wei Li, Shao Shitong, Weiyan Liu, Ziming Qiu, Zhihao Zhu, Wei Huan*
- [1445] #441 Co-Attention Aligned Mutual Cross-Attention for Cloth-Changing Person Re-identification *Qizao Wang, Xuelin Qian, Yanwei Fu, Xiangyang Xue*
- [1500] #891 Filter Pruning via Automatic Pruning Rate Search *Qiming Sun, Shan Cao, Zhixiang Chen*
- [1515] #897 Vision Transformer Compression and Architecture Exploration with Efficient Embedding Space Search *Daeho Kim, Jaeil Kim*

15:30-16:00 Coffee Break (Lobby)

16:00-18:00 Poster Session 1 (Banyan Ballroom)

- #66 EAI-Stereo: Error Aware Iterative Network for Stereo
Matching Haoliang Zhao, Huizhou Zhou, Yongjun Zhang, Yong Zhao, Yitong Yang, Ting Ouyang
- #90 Temporal-aware Siamese Tracker: Integrate Temporal Context for 3D Object Tracking *Kaihao Lan, Haobo Jiang, Jin Xie*
- #92 Neural Plenoptic Sampling: Learning Light-field from Thousands of Imaginary Eyes *Junxuan Li, Yujiao Shi, HONGDONG LI*
- #97 3D-Yoga: A 3D Yoga Dataset for Visual-based Hierarchical Sports Action Analysis *Jianwei Li, Haiqing Hu, Jinyang Li, Xiaomei Zhao*
- #111 NEO-3DF: Novel Editing-Oriented 3D Face Creation and Reconstruction *Peizhi Yan, James Gregson, Qiang Tang, Rabab Ward, Zhan Xu, Shan Du*
- #126 LSMD-Net: LiDAR-Stereo Fusion with Mixture Density Network for Depth Sensing *Hanxi Yin, LEI DENG, Zhixiang Chen, baohua chen, Ting Sun, Xie Yusen, junwei xiao, Fyy Fyy, Shuixin Deng, Xiu Li*
- #223 Vectorizing Building Blueprints *Weilian Song, Mahsa Maleki Abyaneh, Mohammad Amin A Shabani, Yasutaka Furukawa*
- #248 Unsupervised 3D Shape Representation Learning using Normalizing Flow *Xiang Li, Congcong Wen, Hao Huang*
- #284 Learning Inter-Superpoint Affinity for Weakly Supervised 3D Instance Segmentation *Linghua Tang, Le Hui, Jin Xie*
- #302 3D-C2FT: Coarse-to-fine Transformer for Multi-view 3D Reconstruction *Leslie Ching Ow Tiong, Dick Sigmund, Andrew Beng Jin Teoh*
- #356 ReAGFormer: Reaggregation Transformer with Affine Group Features for 3D Object Detection *Chenguang Lu, Kang Yue, Yue Liu*
- #376 Adaptive Range guided Multi-view Depth Estimation with Normal Ranking Loss *Yikang Ding, Zhenyang Li, Dihe Huang, Kai Zhang, Zhiheng Li, Wensen Feng*
- #386 Training-free NAS for 3D Point Cloud Processing *Ping Zhao, Panyue Chen, Guanming Liu*
- #469 Re-parameterization Making GC-Net-style 3DConvNets More Efficient *Takeshi Endo, Seigo Kaji, Haruki Matono, Masayuki Takemura, Takeshi Shima*
- #478 PU-Transformer: Point Cloud Upsampling Transformer *Shi Qiu, Saeed Anwar, Nick Barnes*
- #489 MSAF-Net: Multi-modal Semantic Adaptive Fusion network for 3D object detection *Jianwei Qin, Chuanxu Wang, Xiaoshan Fu, Sifan Liu, Peng Liu*
- #567 Pyramidal Signed Distance Learning for Spatio-Temporal Human Shape Completion *Boyao ZHOU, Jean-Sebastien Franco, martin de la gorce, Edmond Boyer*
- #580 Layered-Garment Net: Generating Multiple Implicit Garment Layers from a Single Image *Alakh Aggarwal, Jikai Wang, Steven Hogue, Saifeng Ni, Madhukar Budagavi, Xiaohu Guo*
- #588 SWPT: Spherical Window-based Point Cloud Transformer *Xindong Guo, Yu Sun, Zhao Rong, Liqun Kuang, Xie Han*
- #594 Self-Supervised Learning with Multi-View Rendering for 3D Point Cloud Analysis *Bach Tran, Binh-Son Hua, Anh T Tran, Minh Hoai*
- #649 PointFormer: A Dual Perception Attention-based Network for Point Cloud Classification *Yijun Chen, zhulun yang, Xianwei Zheng, yadong chang, xutao li*
- #894 Spotlights: Probing Shapes from Spherical Viewpoints *Jiaxin Wei, Lige Liu, Ran Cheng, Wenqing Jiang, Minghao Xu, Xinyu Jiang, Tao Sun, Sören Schwertfeger, Laurent Kneip*
- #938 Structure Guided Proposal Completion for 3D Object Detection *Chao Shi, Chongyang Zhang, Yan Luo*
- #22 Causes of Catastrophic Forgetting in Class-Incremental Semantic Segmentation *Tobias Kalb, Jürgen Beyerer*
- #27 RepF-Net: Distortion-aware Re-projection Fusion Network for Object Detection in Panorama Image *Mengfan Li, Ming Meng, Zhong Zhou*

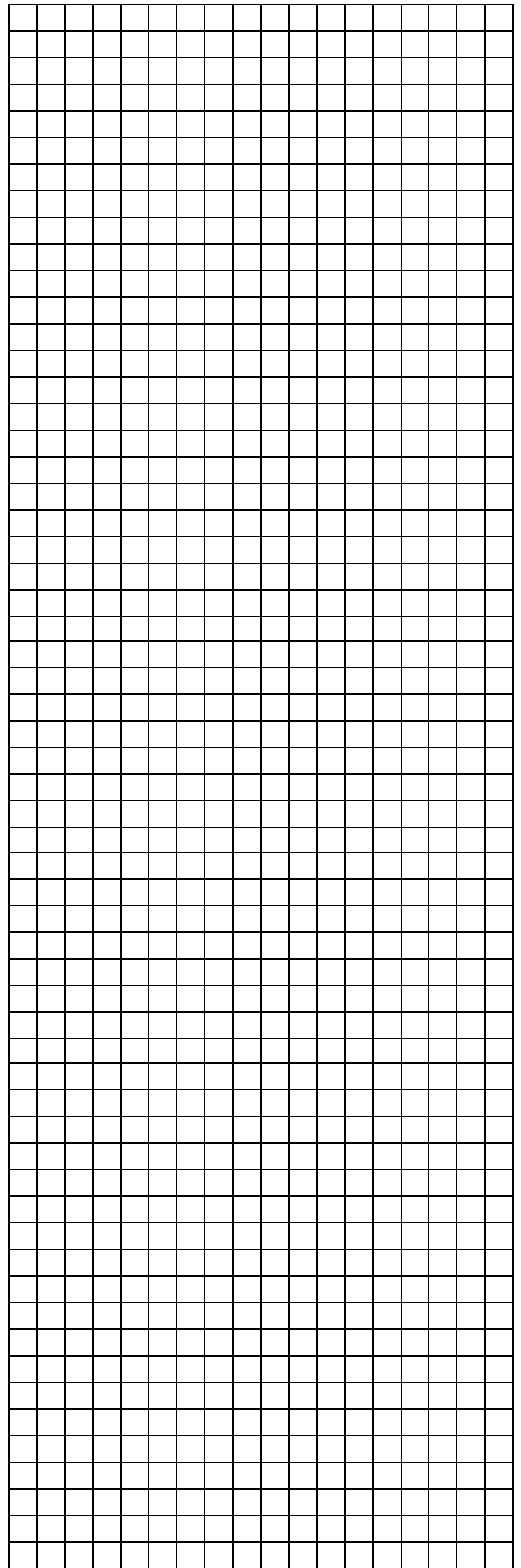
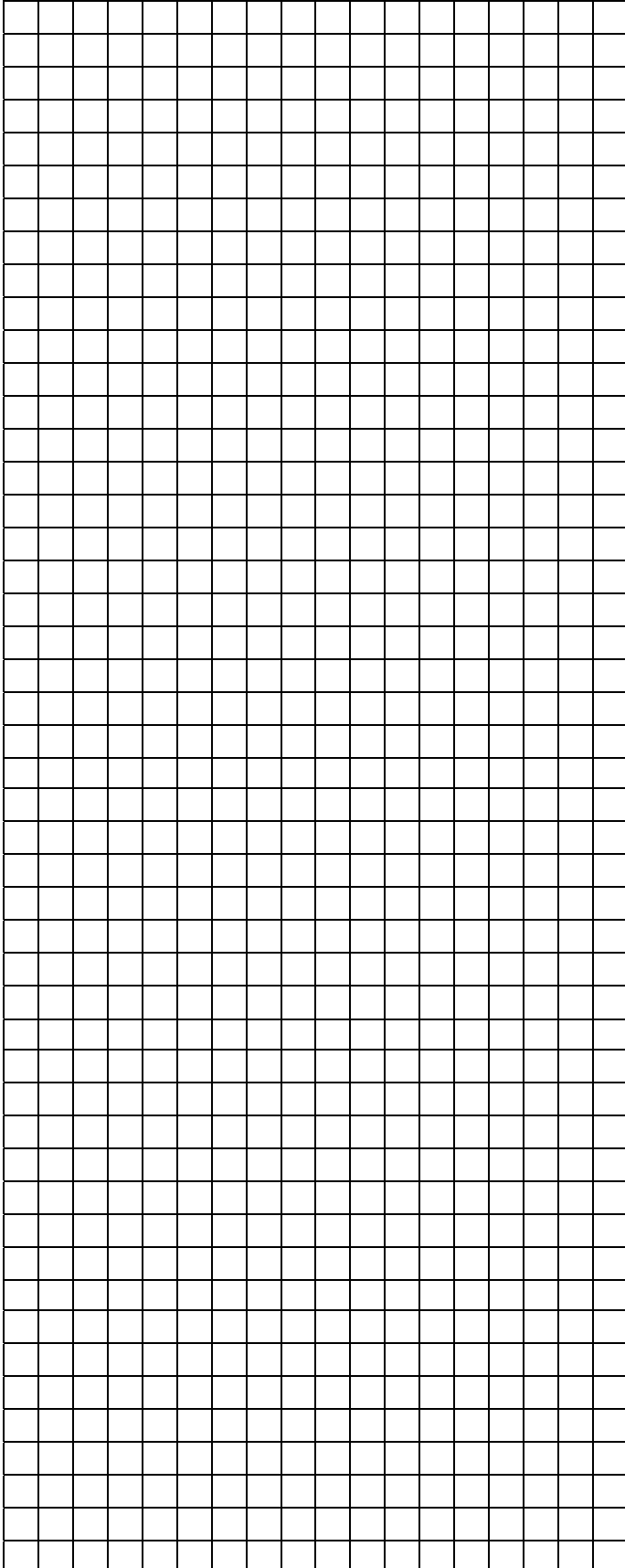
- #31 CLUE: Consolidating Learned and Undergoing Experience in Domain-Incremental Classification *Chengyi Cai, Jiaxin Liu, Wendi Yu, Yuchen Guo*
- #39 RA Loss: Relation-Aware Loss for Robust Person Re-identification *Kan Wang, Shuping Hu (Ubtech Robotics Corp.); Jun Cheng, Jun Cheng, Jianxin Pang, Huan Tan*
- #50 A Differentiable Distance Approximation for Fairer Image Classification *Nicholas E Rosa, Tom Drummond, Mehrtash Harandi*
- #56 Class Specialized Knowledge Distillation *Li-Yun Wang, Anthony Rhodes, Wu-chi Feng*
- #77 Class Concentration with Twin Variational Autoencoders for Unsupervised Cross-modal Hashing *Yang Zhao, Yazhou Zhu, Shengbin Liao, Qiaolin Ye, Haofeng Zhang*
- #98 Continuous Self-Study: Scene Graph Generation with Self-Knowledge Distillation and Spatial Augmentation *Yuan Lv, Yajing Xu, Shusen Wang, Yingjian Ma, DengKe Wang*
- #128 Meta-Prototype Decoupled Training for Long-tailed Learning *Siming FU, Huanpeng Chu, Xiaoxuan He, Hualiang Wang, Zhenyu Yang, Haoji Hu*
- #137 Foreground-Specialized Model Imitation for Instance Segmentation *Dawei Li, Wenbo Li, Hongxia Jin*
- #146 Spatial Group-wise Enhance: Enhancing Semantic Feature Learning in CNN *Yuxuan Li, Xiang Li, Jian Yang*
- #150 PEDTrans: A fine-grained visual classification model for self-attention patch enhancement and dropout *Lin Xuhong, qian yan, Caicong Wu, Yifei Chen*
- #153 Causal-SETR: A SEgmentation TRansformer Variant Based on Causal Intervention *Wei Li, Zhixin Li*
- #160 SEIC: Semantic Embedding with Intermediate Classes for Zero-Shot Domain Generalization *Biswajit Mondal, Soma Biswas*
- #164 Gestalt-Guided Image Understanding for Few-Shot Learning *Kun Song, Yuchen Wu, Jiansheng Chen, Tianyu Hu, Huimin Ma*
- #166 Fine-Grained Image Style Transfer with Visual Transformers *Jianbo Wang, Huan Yang, Jianlong Fu, Toshihiko Yamasaki, Baining Guo*
- #169 PhyLoNet: Physically-Constrained Long Term Video Prediction *Nir Ben Zikri, Andrei Sharf*
- #186 Depth Estimation via Sparse Radar Prior and Driving Scene Semantics *Ke Zheng, Shuguang Li, Kongjian Qin, Zhenxu LI, Yang Zhao, Zhinan Peng, Hong Cheng*
- #194 Dynamic Feature Aggregation for Efficient Video Object Detection *Yiming Cui*
- #206 Image Retrieval with Well-Separated Semantic Hash Centers *Liangdao Wang, Yan Pan, Hanjiang Lai, Jian Yin*
- #221 Three-stage Training Pipeline with Patch Random Drop for Few-shot Object Detection *Shaobo Lin, Xingyu ZENG, Shilin Yan, Rui Zhao*
- #233 Occluded Facial Expression Recognition using Self-supervised Learning *Jiahe Wang, Heyan Ding, Shangfei Wang*
- #246 Object Detection in Foggy Scenes by Embedding Depth and Reconstruction into Domain Adaptation *Xin Jeremy Yang, Michael Bi Mi, Yuan Yuan, Xin Wang, Robby T. Tan*
- #247 Feature Decoupled Knowledge Distillation via Spatial Pyramid Pooling *Lei Gao, Hui Gao*
- #250 Cluster Contrast for Unsupervised Person Re-Identification *Zuozhuo Dai, Guangyuan Wang, Weihao Yuan, Siyu Zhu, Ping Tan*
- #253 EPSANet: An Efficient Pyramid Squeeze Attention Block on Convolutional Neural Network *Hu Zhang, Keke Zu, Jian Lu, Yuru Zou, Deyu Meng*
- #268 Enhancing Fairness of Visual Attribute Predictors *Tobias Hänel, Nishant Kumar, Mengze Li, Erdem Ünal, Abouzar Eslami, Stefan Gumhold*
- #273 Application of Multi-modal Fusion Attention Mechanism in Semantic Segmentation *Yunlong Liu, Osamu Yoshie, Hiroshi Watanabe*
- #296 Few-shot Adaptive Object Detection with Cross-Domain CutMix *Yuzuru Nakamura, Yasunori Ishii, Yuki Maruyama, Takayoshi Yamashita*
- #304 Heterogeneous Avatar Synthesis Based on Disentanglement of Topology and Rendering *Nan Gao, Zhi Zeng, GuiXuan Zhang, ShuWu Zhang*
- #307 A Joint Framework Towards Class-aware and Class-agnostic Alignment for Few-shot Segmentation *Kai Huang, Mingfei Cheng, Yang Wang, Bochen Wang, Ye Xi, feigege wang, Peng Chen*
- #310 Flare Transformer: Solar Flare Prediction using Magnetograms and Sunspot Physical Features *Kanta Kaneda, Yuiga Wada, Tsumugi Iida, Naoto Nishizuka, Yûki Kubo, Komei Sugiura*
- #311 Revisiting Unsupervised Domain Adaptation Models: a Smoothness Perspective *Xiaodong Wang, Junbao Zhuo, Zhang Mengru, Shuhui Wang, Yuejian Fang*
- #330 Active Domain Adaptation with Multi-level Contrastive Units for Semantic Segmentation *Hao Zhang, Ruimao Zhang*
- #358 Staged Adaptive Blind Watermarking Scheme *Baowei Wang, Wu Yufeng*
- #363 Learnable Subspace Orthogonal Transformed Projection for Semi-supervised Image Classification *Lijian Li, Yunhe Zhang, Aiping Huang*
- #420 AFF-CAM: Adaptive Frequency Filtering based Channel Attention Module *DongWook Yang, Min-Kook Suh, Seung-Woo Seo*
- #424 Inverting Adversarially Robust Networks for Image Synthesis *Renán A Rojas-Gómez, Raymond A Yeh, Minh Do, Anh Nguyen*
- #442 Rethinking Online Knowledge Distillation with Multi-Exits *Hojung Lee, Jong-Seok Lee*
- #447 Style Image Harmonization via Global-Local Style Mutual Guided *Xiao Yan, Yang Lu, juncheng Shuai, Sanyuan Zhang*
- #454 Layout-guided Indoor Panorama Inpainting with Plane-aware Normalization *Chao-Chen Gao, Cheng-Hsiu Chen, Jheng-Wei Su, Hung-Kuo Chu*
- #482 Multi-scale Residual Interaction for RGB-D Salient Object Detection *mingjun hu, Xiaolin Zhang, Li Zhao*
- #522 QS-Craft: Learning to Quantize, Scrabble and Craft for Conditional Human Motion Animation *Yuxin Hong, Xuelin Qian, Simian Luo, Yanwei Fu, Guodong Guo, Xiangyang Xue*
- #526 Semi-supervised Breast Lesion Segmentation using Local Cross Triplet Loss for Ultrafast Dynamic Contrast-Enhanced MRI *YoungTack Oh, Eun Sook Ko, Hyunjin Park*
- #530 Video Object Segmentation via Structural Feature Reconfiguration *Zhenyu Chen, Ping Hu, Lu Zhang, Huchuan Lu, You He, Shuo Wang, Xiaoxing Zhang, Maodi Hu, Tao Li*
- #543 Synchronous Bi-Directional Pedestrian Trajectory Prediction with Error Compensation *Ce Xie, Yuanman Li, Rongqin Liang, Li Dong, Xia Li*
- #544 DENet: Detection-driven Enhancement Network for Object Detection under Adverse Weather Conditions *Qingpao Qin, Kan Chang, Mengyuan Huang, Guiqing Li*
- #556 Coil-Agnostic Attention-Based Network for Parallel MRI Reconstruction *Jingshuai Liu, Chen Qin, Mehrdad Yaghoobi*
- #569 MSF²SDN: Multi Scale Feature Fusion Dehazing Network with Dense connection *Guangfa Wang, Xiaokang Yu*
- #604 RaftMLP: How Much Can Be Done Without Attention and with Less Spatial Locality? *Yuki Tsunami, Masato Taki*
- #636 Domain Generalized Person Re-identification by Locating and Eliminating Domain-Sensitive Features *Wendong Wang, Fengxiang Yang, Zhiming Luo, Shaozi Li*
- #639 ST-CoNAL: Consistency-Based Acquisition Criterion Using Temporal Self-Ensemble for Active Learning *Jae Soon Baik, In Young Yoon, Jun Won Choi*
- #653 Affinity-Aware Relation Network for Oriented Object Detection in Aerial Images *Tingting Fang, Bin Liu, Zhiwei Zhao, Qi Chu, Nenghai Yu*
- #671 Neural Residual Flow Fields for Efficient Video Representations *Daniel Rho, Junwoo Cho, Jong Hwan Ko, Eunbyung Park*

#677 A simple strategy to make neural networks provably invariant
Kanchana Vaishnavi Gandikota, Jonas A. Geiping, Zorah Laehner, Adam Czapliński, Michael Moeller

#681 Multi-modal Segment Assemblage Network for Ad Video Editing with Importance-Coherence Reward
Yunlong Tang, Siting Xu, Teng Wang, Qin Lin, qinglin lu, Feng Zheng

#682 Visual Explanation Generation Based on Lambda Attention Branch Networks
Tsumugi Iida, Takumi Komatsu, Kanta Kaneda, Tsubasa Hirakawa, Takayoshi Yamashita, Hironobu Fujiyoshi, Komei Sugiura

#957 Super-attention for exemplar-based image colorization
Hernan Camilo CARRILLO LINDADO, Michaël Clément, Aurelie Bugeau



Wednesday, December 7, 2022

08:00-17:00 Registration (Lobby)

9:00-10:00 Invited Talk 2: Prof. Kavita Bala
(Banyan Ballroom)

10:00-10:30 Coffee Break (Lobby)

10:30-12:15 Oral Session 3 (Banyan Ballroom)

Papers in this session are also in Poster Session 2

Format (12 min. for presentation+3 mins for questions)

- [1030] Cross-View Self-Fusion for Self-Supervised 3D Human Pose Estimation in the Wild *Hyun-Woo Kim, Gun-Hee Lee, Myeong-Seok Oh, Seong-Whan Lee*
- [1045] #367 Multi-Scale Wavelet Transformer for Face Forgery Detection *Jie Liu, Jingjing Wang, Peng Zhang, Chunmao Wang, Di Xie, Shiliang Pu*
- [1100] #942 KinStyle: A Strong Baseline Photorealistic Kinship Face Synthesis with An Optimized StyleGAN Encoder *Li-Chen Cheng, Shu-Chuan Hsu, Pin-Hua Lee, Hsiu-Chieh Lee, Che-Hsien Lin, Jun-Cheng Chen, Chih-Yu Wang*
- [1115] #751 Exp-GAN: 3D-Aware Facial Image Generation with Expression Control *yeonkyeong Lee, Taeho Choi, Hyunsung Go, Hyunjoon Lee, Sunghyun Cho, Junho Kim*
- [1130] #88 Focal and Global Spatial-Temporal Transformer for Skeleton-based Action Recognition *Zhimin Gao, Peitao Wang, Pei Lv, Xiaoheng Jiang, Qidong Liu, Pichao Wang, Mingliang Xu, Wanqing Li*
- [1145] #895 SAC-GAN : Face Image Inpainting with Spatial-aware Attribute Controllable GAN *Dongmin Cha, Joonyeong Lee, Taehun Kim, Daijin Kim*
- [1200] #860 Temporal-Viewpoint Transportation Plan for Skeletal Few-shot Action Recognition *Lei Wang, Piotr Koniusz*

12:15-13:30 Lunch (Banyan Room)

13:30-14:30 Oral Session 4 (Banyan Ballroom)

Papers in this session are also in Poster Session 2

Format (12 min. for presentation+3 mins for questions)

- [1330] #676 ConTra: (Con)text (Tra)nsformer for Cross-Modal Video Retrieval *Adriano Fragomeni, Michael Wray, Dima Damen*
- [1345] #994 Bright as the Sun: In-depth Analysis of Imagination-driven Image Captioning *Huyen Thi Thanh Tran, Takayuki Okatani*
- [1400] #382 gScoreCAM: What objects is CLIP looking at? *Peijie Chen, Qi Li, Saad Biaz, Trung Bui, Anh Nguyen*
- [1415] #704 Thinking Hallucination for Video Captioning *Nasib Ullah, Partha Pratim Mohanta*

14:30-15:00 Coffee Break (Lobby)

15:00-17:00 Poster Session 2 (Banyan Ballroom)

- #52 HiCo: Hierarchical Contrastive Learning for Ultrasound Video Model Pretraining *Chunhui Zhang, Yixiong Chen, Li Liu, Qiong Liu, Xi Zhou*
- #61 APAUNet: Axis Projection Attention UNet for Small Target in 3D Medical Segmentation *Yuncheng Jiang, Zixun Zhang, Shixi Qin, Yao Guo, Zhen, Shuguang Cui*
- #210 Multi-View Coupled Self-Attention Network for Pulmonary Nodules Classification *Qikui Zhu, Yanqing Wang, Xiangpeng Chu, Xiongwen Yang, Wenzhao Zhong*
- # 378 Slice-mask based 3D Cardiac Shape Reconstruction from CT

volume *Xiaohan Yuan, Cong Liu, Fu Feng, Yinsu Zhu, Yangang Wang*

- #440 Improving the Quality of Sparse-view Cone-Beam Computed Tomography via Reconstruction-Friendly Interpolation Network *Yanli Wang, Lianying Chao, Wenqi Shan, Haobo Zhang, Zhiwei Wang, Qiang Li*
- #560 CSS-Net: Classification and Substitution for Segmentation of Rotator Cuff Tear *Kyungsu Lee, Hah Min Lew, Moonhwan Lee, Jun Young Kim, Jae Youn Hwang*
- #695 PathTR: Context-Aware Memory Transformer for Tumor Localization in Gigapixel Pathology Images *Wenkang Qin, Rui Xu, Shan Jiang, Tingting Jiang, Lin Luo*
- #714 Region-of-interest Attentive Heteromodal Variational Encoder-Decoder for Segmentation with Missing Modalities *Seungwan Jeong, hwanho cho, Junmo Kwon, Hyunjin Park*
- #125 GaitStrip: Gait Recognition via Effective Strip-based Feature Representations and Multi-Level Framework *Ming Wang, Beibei Lin, xianda guo, Lincheng Li, Zheng Zhu, Jiande Sun, Shunli Zhang, Yu Liu, Xin Yu*
- #205 Soft Label Mining and Average Expression Anchoring for Facial Expression Recognition *Haipeng Ming, Wenhuan Lu, wei zhang*
- #348 'Labelling the Gaps': A Weakly Supervised Automatic Eye Gaze Estimation *Shreya Ghosh, Abhinav Dhall, Munawar Hayat, Jarrod Knibbe*
- #686 SCFNet: A Spatial-Channel Features Network based on Heterocentric Sample Loss for Visible-Infrared Person Re-Identification *Peng Su, Rui Liu, JING DONG, Pengfei Yi, dongsheng zhou*
- #700 Decoupling identity and visual quality for image and video anonymization *Maxim Maximov, Ismail Elezi, Laura Leal-Taixé*
- #739 CCLSL: Combination of Contrastive Learning and Supervised Learning for Handwritten Mathematical Expression Recognition *Qiqiang Lin, Xiaonan Huang, Ning Bi, Ching Y Suen, Jun Tan*
- 768 COLLIDER: A Robust Training Framework for Backdoor Data *Hadi Mohaghegh Dolatabadi, Sarah Erfani, Christopher Leckie*
- #774 Action Representing by Constrained Conditional Mutual Information *Gao Haoyuan, Yifan Zhang, Linhui Sun, Jian Cheng*
- #791 Unified Energy-based Generative Network for Supervised Image Hashing *Khoa D Doan, Sarkhan Badirli, Chandan K Reddy*
- #796 Learning and Transforming General Representations to Break Down Stability-Plasticity Dilemma *Kengo Murata, Seiya Ito, Kouzou Ohara*
- #814 A²: Adaptive Augmentation for Effectively Mitigating Dataset Bias *Jaegu An, Taejune Kim, Donggeun Ko, Sangyup Lee, Simon S Woo*
- #818 Exploring Adversarially Robust Training for Unsupervised Domain Adaptation *Shao-Yuan Lo, Vishal Patel*
- #848 Shape Prior is Not All You Need: Discovering Balance between Texture and Shape bias in CNN *Hyunhee Chung, Kyung Ho Park*
- #882 Learning Common and Specific Visual Prompts for Domain Generalization *Aodi Li, Liansheng Zhuang, Shuo Fan*
- #918 A Lightweight Local-Global Attention Network for Single Image Super-Resolution *Zijiang Song, Baojiang Zhong*
- #926 MGRLN-Net: Mask-Guided Residual Learning Network for Joint Single-Image Shadow Detection and Removal *Leiping Jie, Hui Zhang*
- #946 Comparing Complexities of Decision Boundaries for Robust Training: A Universal Approach *Daniel Kienitz, Ekaterina Komendantskaya, Michael A Lones*
- #956 Deep Active Ensemble Sampling For Image Classification *Salman Mohamadi, Gianfranco Doretto, Don Adjeroh*
- #980 Multi-modal Characteristic Guided Depth Completion Network *Yongjin Lee, SeokJun Park, Beomgu Kang, HyunWook Park*
- #1016 Heterogeneous Interactive Learning Network for Unsupervised Cross-modal Retrieval *yuanchao zheng, Xiaowei Zhang*
- #1052 Energy-Efficient Image Processing Using Binary Neural Networks with Hadamard Transforms *Jaeyoon Park, Sunggu*

- Lee
- #9 Confidence-Calibrated Face Image Forgery Detection with Contrastive Representation Distillation *Puning Yang, Huaibo Huang, Zhiyong Wang, Aijing Yu, Ran He*
- #136 Exposing Face Forgery Clues via Retinex-based Image Enhancement *Han Chen, Yuzhen Lin, Bin Li*
- #144 GB-CosFace: Rethinking Softmax-based Face Recognition from the Perspective of Open Set Classification *Mingqiang Chen, Lizhe Liu, Xiaohao Chen, Siyu Zhu*
- #147 Learning Video-independent Eye Contact Segmentation from In-the-Wild Videos *Tianyi Wu, Yusuke Sugano*
- #597 Exemplar Free Class Agnostic Counting *Viresh Ranjan, Minh Hoai*
- #665 Emphasizing Closeness and Diversity Simultaneously for Deep Face Representation *Chaoyu Zhao, Jianjun Qian, Shumin Zhu, Jin Xie, Jian Yang*
- #38 DAC-GAN: Dual Auxiliary Consistency Generative Adversarial Network for Text-to-Image Generation *Zhiwei Wang, Jing Yang, Jiajun Cui, Jiawei Liu, Jiahao Wang*
- #115 Learning Internal Semantics with Expanded Categories for Generative Zero-Shot Learning *Xiaojie Zhao, Shidong Wang, Haofeng Zhang*
- #214 ADEL: Adaptive Distribution Effective-matching Method for Guiding Generators of GANs *Jungeun Kim, Jeongeun Park, Ha Young Kim*
- #381 TeCM-CLIP: Text-based Controllable Multi-attribute Face Image Manipulation *Xudong Lou, Yiguang Liu, Xuwei Li*
- #389 Gated cross word-visual attention-driven generative adversarial networks for text-to-image synthesis *Borun Lai, Lihong Ma, Jing Tian*
- #459 End-to-end Surface Reconstruction For Touching Trajectories *Jiarui Liu, Yuanpei Zhang, Zhuojun Zou, Jie Hao*
- #626 Conditional GAN for Point Cloud Generation *zhulun yang, Yijun Chen, Xianwei Zheng, yadong chang, xutao li*
- #628 Progressive Attentional Manifold Alignment for Arbitrary Style Transfer *xuan luo, Zhen Han, linkang yang*
- #793 DHG-GAN: Diverse Image Outpainting via Decoupled High Frequency Semantics *Yiwen Xu, Maurice Pagnucco, Yang Song*
- #826 MUSH: Multi-Scale Hierarchical Feature Extraction for Semantic Image Synthesis *Zicong Wang, Qiang Ren, Wang Junli, Chungang Yan, Changjun Jiang*
- #35 D³: Duplicate Detection Decontaminator for Multi-Athlete Tracking in Sports Videos *Rui He, Zehua Fu, Qingjie Liu, Yunhong Wang, Xunxun Chen*
- #120 Group Guided Data Association for Multiple Object Tracking *Yubin Wu, Hao Sheng, Shuai Wang, Yang Liu, Zhang Xiong, Wei Ke*
- #33 Consistent Semantic Attacks on Optical Flow *Tom Koren, Lior Talker, Michael Dinerstein, Ran Vitek*
- #357 Physical Passive Patch Adversarial Attacks on Visual Odometry Systems *Yaniv Nemcovsky, Matan Jacoby, Alex Bronstein, Chaim Baskin*
- #953 Tracking Small and Fast Moving Objects: A Benchmark *Zhewen Zhang, Fuliang Wu, yuming qiu, Jingdong Liang, Shuiwang Li*
- #275 Spatial-Temporal Adaptive Graph Convolutional Network for Skeleton-based Action Recognition *Rui Hang, Minxian Li*
- #292 3D Pose Based Feedback For Physical Exercises *Ziyi Zhao, Sena Kiciroglu, Hugues Vinzant, Yuan Cheng, Isinsu Katircioglu, Mathieu Salzmann, Pascal Fua*
- #342 Generating Multiple Hypotheses for 3D Human Mesh and Pose using Conditional Generative Adversarial Nets *Xu Zheng, Yali Zheng, yang shubin*
- #419 SCOAD: Single-frame Click Supervision for Online Action Detection *Na Ye, Xing Zhang, Dawei Yan, Wei Dong, Qingsen Yan*
- #545 Neural Puppeteer: Keypoint-Based Neural Rendering of Dynamic Shapes *Simon Giebenhain, Urs Waldmann, Ole Johannsen, Bastian Goldluecke*
- #548 Decanus to Legatus: Synthetic training for 2D-3D human pose lifting *Yue Zhu, David Picard*
- #929 Social Aware Multi-Modal Pedestrian Crossing Behavior Prediction *Xiaolin Zhai, Zhengxi Hu, Dingye Yang, Lei Zhou, Jingtai Liu*
- #29 Revisiting Image Pyramid Structure for High Resolution Salient Object Detection *Taehun Kim, Kunhee Kim, Joonyeong Lee, Dongmin Cha, Jiho Lee, Daijin Kim*
- #398 BOREx: Bayesian-Optimization--Based Refinement of Saliency Map for Image- and Video-Classification Models *Atsushi Kikuchi, Kotaro Uchida, Masaki Waga, Kohei Suenaga*
- #466 A General Divergence Modeling Strategy for Salient Object Detection *Xinyu Tian, Jing Zhang, Yuchao Dai*
- #518 Full-scale Selective Transformer for Semantic Segmentation *Fangjian Lin, Sitong Wu, Yizhe Ma, Shengwei Tian*
- #1000 Semi-Supervised Semantic Segmentation with Uncertainty-guided Self Cross Supervision *Yunyang Zhang, Zhiqiang Gong, Xiaoyu Zhao, Xiaohu Zheng, Wen Yao*
- #1011 A Cylindrical Convolution Network for Dense Top-View Semantic Segmentation with LiDAR Point Clouds *Jiacheng Lu, Shuo Gu, Cheng-Zhong Xu, Hui Kong*
- #633 DreamNet: A Deep Riemannian Manifold Network for SPD Matrix Learning *Rui Wang, Xiao-Jun Wu, Ziheng Chen, Tianyang Xu, Josef Kittler*
- #6 Spatial Temporal Network for Image and Skeleton Based Group Activity Recognition *Xiaolin Zhai, Zhengxi Hu, Dingye Yang, Lei Zhou, Jingtai Liu*
- #157 Learning Using Privileged Information for Zero-Shot Action Recognition *zhiyi Gao, Yonghong Hou, Wanqing Li, Zihui Guo, Bin Yu*
- #326 MGTR: End-to-End Mutual Gaze Detection with Transformer *Hang Guo, Zhengxi Hu, Jingtai Liu*
- #384 Is an Object-Centric Video Representation Beneficial for Transfer? *Chuhan Zhang, Ankush Gupta, Andrew Zisserman*
- #491 DCVQE: A Hierarchical Transformer for Video Quality Assessment *Zutong Li, Lei Yang*
- #508 Not End-to-End: Explore Multi-Stage Architecture for Online Surgical Phase Recognition *Fangqiu Yi, Yanfeng Yang, Tingting Jiang*
- #802 A Compressive Prior Guided Mask Predictive Coding Approach for Video Analysis *Zhimeng Huang, Chuanmin Jia, Shanshe Wang, Siwei Ma*
- #804 BaSSL: Boundary-aware Self-Supervised Learning for Video Scene Segmentation *Jonghwan Mun, Minchul Shin, Gunsoo Han, Sangho Lee, Seongsu Ha, Joonseok Lee, Eun-Sol Kim*
- #880 HaViT: Hybrid-attention based Vision Transformer for Video Classification *Li Li, Liansheng Zhuang, Shenghua Gao, shafei wang*
- #40 From Sparse to Dense: Semantic Graph Evolutionary Hashing for Unsupervised Cross-Modal Retrieval *Yang Zhao, Jianguo Yu, Shengbin Liao, Zheng Zhang, Haofeng Zhang*
- #264 SST-VLM: Sparse Sampling-Twice Inspired Video-Language Model *Yizhao Gao, Zhiwu Lu*
- #301 PromptLearner-CLIP: Contrastive Multi-Modal Action Representation Learning with Context Optimization *Zhenxing Zheng, Gaoyun An, Shan Cao, Zhaoqilin Yang, Quqi Ruan*
- #323 Causal Property based Anti-Conflict Modeling with Hybrid Data Augmentation for Unbiased Scene Graph Generation *Ruonan Zhang, Gaoyun An*
- #629 From Within to Between: Knowledge Distillation for Cross Modality Retrieval *Vinh Tran, Niranjana Balasubramanian, Minh Hoai*
- #784 Boundary-aware Temporal Sentence Grounding with Adaptive Proposal Refinement *Jianxiang Dong, Zhaozheng Yin*
- #832 Two-stage Multimodality Fusion for High-performance Text-based Visual Question Answering *Bingjia Li, Jie Wang, Minyi Zhao, Shuigeng Zhou*

08:00-17:00 Registration (Lobby)

9:00-10:00 Invited Talk 4: Prof. Daniel Lee
(Banyan Ballroom)

10:00-10:30 Coffee Break (Lobby)

10:30-12:15 Oral Session 5 (Banyan Ballroom)

Papers in this session are also in Poster Session 3

Format (12 min. for presentation+3 mins for questions)

- [1030] #599 Looking from a Higher-level Perspective: Attention and Recognition Enhanced Multi-scale Scene Text Segmentation *Yujin Ren, Jiaxin Zhang, Bangdong Chen, Xiaoyi Zhang, Lianwen Jin*
- [1045] #884 Training Dynamics Aware Neural Network Optimization with Stabilization *Zilin Fang, Mohamad Shahbazi, Thomas Probst, Danda Pani Paudel, Luc Van Gool*
- [1100] #463 Robustizing Object Detection Networks Using Augmented Feature Pooling *Takashi Shibata, Masayuki Tanaka, Masatoshi Okutomi*
- [1115] #656 Cross-Architecture Knowledge Distillation *Yufan Liu, Jiajiong Cao, Bing Li, Weiming Hu, Jingting Ding, Liang Li*
- [1130] #592 Self-Distilled Vision Transformer for Domain Generalization *Maryam Sultana, Muzammal Naseer, Muhammad Haris Khan, Salman Khan, Fahad Shahbaz Khan*
- [1145] #317 A Diffusion-ReFinement Model for Sketch-to-Point Modeling *Di Kong, Qiang Wang, Yonggang Qi*
- [1200] #690 NoiseTransfer: Image Noise Generation with Contrastive Embeddings *Seunghwan Lee, Tae Hyun Kim*

12:15-13:30 Lunch (Banyan Room)

13:30-15:30 Oral Session 6 (Banyan Ballroom)

Papers in this session are also in Poster Session 3

Format (12 min. for presentation+3 mins for questions)

- [1330] #320 TCVM: Temporal Contrasting Video Montage Framework for Self-supervised Video Representation Learning *Fengrui Tian, Jiawei FAN, Xie Yu, Shaoyi Du, Meina Song, Yu Zhao*
- [1345] #28 Spatio-channel Attention Blocks for Cross-modal Crowd Counting *Youjia Zhang, Soyun Choi, Sung Eun Hong*
- [1400] #651 FunnyNet: Audiovisual Learning of Funny Moments in Videos *Zhisong Liu, Robin Courant, Vicky Kalogeiton*
- [1415] #914 DOLPHINS: Dataset for Collaborative Perception enabled Harmonious and Interconnected Self-driving *Ruiqing Mao, Jingyu Guo, Yukuan Jia, Yuxuan Sun, Sheng Zhou, Zhisheng Niu*
- [1430] #726 Two Video Data Sets for Tracking and Retrieval of Out of Distribution Objects *Kira Maag, Robin Chan, Svenja Uhlemeyer, Kamil Kowol, Jan David Schneider, Fabian Schuldt, Hanno Gottschalk*
- [1445] #595 CMT-Co: Contrastive Learning with Character Movement Task for Handwritten Text Recognition *Xiaoyi Zhang, Jiapeng Wang, Lianwen Jin, Yujin Ren, yang Xue*
- [1500] #138 TriMix: A General Framework for Medical Image Segmentation from Limited Supervision *Zhou Zheng, Yuichiro Hayashi, Masahiro Oda, Takayuki Kitasaka, Kensaku Mori*
- [1515] #744 PatchFlow: A Two-Stage Patch-Based Approach for Lightweight Optical Flow Estimation *Ahmed Hammad Alhawwary, Janne Mustaniemi, Janne Heikkila*

15:30-16:00 Coffee Break (Lobby)

16:00-18:00 Poster Session 3 (Banyan Ballroom)

- #4 Skin tone Diagnosis in the Wild: Towards More Robust and Inclusive User Experience Using Oriented Aleatoric Uncertainty *Emmanuel Malherbe, Michel Remise, Shuai Zhang, Matthieu Perrot*
- #161 Domain Generalized RPPG Network: Disentangled Feature Learning with Domain Permutation and Domain Augmentation *WEI-HAO Chung, CHENG-JU HSIEH, Sheng-Hung Liu, Chiou-Ting Hsu*
- #224 Complex Handwriting Trajectory Recovery: Evaluation Metrics and Algorithm *Zhounan Chen, Daihui Yang, Jinglin Liang, Xinwu Liu, Yuyi Wang, Zhenghua Peng, Shuangping Huang*
- #339 Fully Transformer Network for Change Detection of Remote Sensing Images *Zhounan Chen, Daihui Yang, Jinglin Liang, Xinwu Liu, Yuyi Wang, Zhenghua Peng, Shuangping Huang*
- #379 Self-Supervised Augmented Patches Segmentation for Anomaly Detection *Jun Long, Yuxi Yang, liujie hua, Yiqi Ou*
- #395 Rethinking Low-level Features for Interest Point Detection and Description *Changhao Wang, Guanwen Zhang, zhengyun Cheng, Wei Zhou*
- #396 DILane: Dynamic Instance-Aware Network for Lane Detection *zhengyun Cheng, Guanwen Zhang, Changhao Wang, Wei Zhou*
- #400 CIRL: A Category-Instance Representation Learning Framework for Tropical Cyclone Intensity Estimation *Dengke Wang, Yajing XU, Yicheng Luo, Qifeng QIAN, Yuan Lv*
- #406 Explaining Deep Neural Networks for Point Clouds using Gradient-based Visualisations *Jawad Tayyub, Muhammad Sarmad, Nicolas Schönborn*
- #426 Multispectral-Based Imaging and Machine Learning for Noninvasive Blood Loss Estimation *Ara Abigail Ambita, Catherine S Co, Laura T David, Charissa M. Ferrera, Prospero C. Naval*
- #484 Unreliability-aware Disentangling for Cross-Domain Semi-supervised Pedestrian Detection *Wenhao Wu, Si Wu, Hau San Wong*
- #488 Patch Embedding as Local Features: Unifying Deep Local and Global Features Via Vision Transformer for Image Retrieval *Lam Phan, HIEP THI HONG NGUYEN, Harikrishna C Warriar, Yogesh Gupta*
- #524 Improving Surveillance Object Detection with Adaptive Omni-Attention over both Inter-Frame and Intra-Frame Context *Tingting Yu, Chen Chen, Yichao Zhou, Xiyuan Hu*
- #557 Lightweight Image Matting via Efficient Non-Local Guidance *Zhaoxiang Kang, Zonglin Li, Qinglin Liu, Yuhe Zhu, Hongfei Zhou, Shengping Zhang*
- #591 RGB Road Scene Material Segmentation *Sudong Cai, Ryosuke Wakaki, Shohei Nobuhara, Ko Nishino*
- #673 CV4Code: Sourcecode Understanding via Visual Code Representations *Ruibo Shi, Sean Moran, Lili Tao, Fran Silavong, Rohan Saphal*
- #808 PPR-Net: Patch-based multi-scale pyramid registration network for defect detection of printed labels *Dongming Li, Yingjian Li, Jinxing Li, Guangming Lu*
- #862 A Prototype-Oriented Contrastive Adaption Network For Cross-domain Facial Expression Recognition *Chao Wang, Jundi Ding, Hui Yan, Si Shen*
- #962 Multi-stream Fusion for Class Incremental Learning in Pill Image Classification *Tung Trong Nguyen, Hieu H. Pham, Phi Le Nguyen, Thanh Hung Nguyen, Minh Do*
- #1041 Decision-Based Black-Box Attack Specific to Large-Size Images *Dan Wang, Yuan-Gen Wang*
- #769 Unsupervised Online Hashing with Multi-Bit Quantization *Zhenyu Weng, Yuesheng Zhu*
- #963 Compressed Vision for Efficient Video Understanding *Olivia Wiles, Joao Carreira, Iain J M Barr, Andrew Zisserman, Mateusz Malinowski*
- #577 Robust Human Matting via Semantic Guidance *XiangGuang Chen, Ye Zhu, Yu Li, Bingtao Fu, Lei Sun, Ying Shan, Shan Liu*
- #824 RDRN: Recursively Defined Residual Network for Image Super-Resolution *Alexander Panaetov, Karim Elhadji Daou, Igor Samenko, Evgeny Tetin, Ilya Ivanov*
- #471 AirBirds: A Large-scale Challenging Dataset for Bird Strike Prevention in Real-world Airports *Hongyu Sun, Yongcai Wang, Xudong Cai, Peng Wang, Zhe Huang, Deying Li, Yu Shao, Shuo Wang*
- #576 Rove-Tree-11: The not-so-Wild Rover, A hierarchically structured image dataset for deep metric learning research *Roberta Hunt, Kim Steenstrup Pedersen*
- #652 UTB180: A High-quality Benchmark for Underwater Tracking *Basit O Alawode, Yuhang Guo, Mehnaz Ummar, Jorge Manuel Miranda Dias, Naoufel Werghi, Ajmal Mian, Sajid Javed*

