



## Program at a glance

	Sep. 28			Sep. 29		
8:30-9:30	<b>Opening ceremony</b> <b>Keynote Speech 1</b> <b>Room 1</b>			<b>Keynote Speech 2</b>  Room 1		
9:30-10:00	Coffee Break			Coffee Break		
10:00-12:00	<b>Best Paper Candidate Session</b>  Room 1			<b>Oral</b> <b>Session 4</b> Room 1a	<b>Oral</b> <b>Session 5</b> Room 1b	<b>Oral</b> <b>Session 6</b> Room 2
12:00-14:00	Lunch			Lunch		
14:00-15:40	<b>Oral</b> <b>Session 1</b> Room 1a	<b>Oral</b> <b>Session 2</b> Room 1b	<b>Oral</b> <b>Session 3</b> Room 2	<b>Oral</b> <b>Session 7</b> Room 1a	<b>Oral</b> <b>Session 8</b> Room 1b	<b>Oral</b> <b>Session 9</b> Room 2
15:40-16:00	Coffee Break			Coffee Break		
16:00-18:00	Special Session1 Room 1a	Special Session2 Room 1b	Special Session3 Room 2	Special Session 4 Room 1a	Special Session5 Room 1b	Special Session6 Room 2
16:00-18:00	Poster Session 1			Poster Session 2		
19:00	Banquet					

- Each oral presentation is 20 minutes long, 15 minutes for lecture and 5 minutes for questions.
- For each paper accepted within a poster session, X display rack with 180cm tall and 80cm wide has been prepared by committee. Posters should be made in advance and may not exceed 180cm height or 80cm width.

# Best Paper Candidate

## Best Paper Candidate Session

Paper ID: 33 Title: Deep Graph Laplacian Hashing for Image Retrieval  
Authors: Jiancong Ge, Hefei University of Technology; Xueliang liu, Hefei University of Technology; Richang Hong, Hefei University of Technology; Jie Shao, University of Electronic Science and Technology , China; Meng Wang, Hefei University of Technology

Paper ID: 52 Title: Deep Video Dehazing  
Authors: Wenqi Ren, Chinese Academy of Sciences; Xiaochun Cao, Chinese Academy of Sciences

Paper ID: 58 Title: Image Tagging by Joint Deep Visual-Semantic Propagation  
Authors: Yuexin Ma, The University of Hong Kong; Xinge Zhu, University of Chinese Academy of Sciences; Yujing Sun, The University of Hong Kong; Bingzheng Yan, National University of Defense Technology

Paper ID: 195 Title: Exploiting Time and Frequency Diversities for High-Quality Linear Video Transmission: A MCast Framework  
Authors: Chaofan He, University of Electronic Science and Technology of China; Huiying Wang, University of Electronic Science and Technology of China; Yang Hu, University of Electronic Science and Technology of China; Yan Chen, University of Electronic Science and Technology of China; Houqiang Li, University of Science and Technology of China

Paper ID: 290 Title: Light Field Image Compression with Sub-apertures Reordering and Adaptive Reconstruction  
Authors: Chuanmin Jia, Peking University; Yekang Yang, Peking University; Xinfeng Zhang, Nanyang Technological University; Shiqi Wang, City University of Hong Kong; Shanshe Wang, Peking University; Siwei Ma, Peking University

# Oral Session

## Oral Session 1: Video Coding

Paper ID: 19 Title: Fast QTBT Partition Algorithm for JVET Intra Coding based ON CNN

Authors: Zhipeng Jin, School of Communication and Information Engineering, Shanghai University; Ping An, School of Communication and Information Engineering, Shanghai University; Liquan Shen, School of Communication and Information Engineering, Shanghai University

Paper ID: 106 Title: A Novel Saliency Based Bit Allocation and RDO for HEVC  
Authors: Jiajun Xu, Southwest Jiaotong University; Qiang Peng, Southwest Jiaotong University; Bing Wang, Southwest Jiaotong University; Changbin Li, Southwest Jiaotong University; Xiao Wu, Southwest Jiaotong University

Paper ID: 101 Title: Light Field Image Compression Scheme Based on MVD Coding Standard

Authors: Xinpeng Huang, Shanghai University; Ping An, Shanghai University; Liquan Shen, Shanghai University; Kai Li, Shanghai University

Paper ID: 64 Title: A Real-time Multi-view AVS2 Decoder on Mobile Phone

Authors: Zhenan Lin, Peking University; Weilun Feng, Peking University; Yingfan Zhang, Peking University; Jun Sun, Peking University; Zongming Guo, Peking University

Paper ID: 70 Title: Compressive Sensing Depth Video Coding via Gaussian Mixture Models and Object Edges

Author: Kang Wang, Xi'an Jiaotong University; Xuguang Lan, Xi'an Jiaotong University; Xiangwei Li, Xi'an Jiaotong University; Meng Yang, Xi'an Jiaotong University; Nanning Zheng, Xi'an Jiaotong University

## Oral Session 2: Image Super-resolution, Deblurring, and Dehazing

Paper ID: 115 Title: AWCR: Adaptive and weighted collaborative representations for face super-resolution with context residual-learning

Authors: Tao Lu, Wuhan Institute of Technology; Lan Pan, Wuhan Institute of Technology; Jiaming Wang, Wuhan Institute of Technology; Yanduo Zhang, Wuhan Institute of Technology; Zhongyuan Wang, National Engineering Research Center for Multimedia Software, Wuhan University, China; Zixiang Xiong, Department of Electrical and Computer Engineering Texas A&M University College Station and Monash University

Paper ID: 158 Title: Single Image Haze Removal Based on Global-Local Optimization for Depth Ma

Author: Hongda Zhang, Beihang Univeristy; Yuanyuan Gao, Beihang Univeristy; Haimiao Hu\*, Beihang Univeristy; Qiang Guo, Beihang Univeristy; Yukun Cui, Beihang Univeristy

Paper ID: 6 Title: Single Image Dehazing Using Deep Convolution Neural Networks

Authors: Shengdong Zhang, Wuhan University; Fazhi He, Wuhan University; Yao Jian, School of remote sensing information engineering ,Wuhan University

Paper ID: 171 Title: SPOS: Deblur Image by Using Sparsity Prior and Outlier Suppression

Authors: Yiwei Zhang, Peking University Shenzhen Graduate School; Gary Li, Peking University; Xiaoqiang Guo, Academy of Broadcasting Science, SAPPRET; Wenmin Wang, SECE, Shenzhen Graduate School, Peking University; Ronggang Wang, Peking University

Paper ID: 89 Title: Single Image Super-Resolution Using Multi-Scale Convolutional Neural Network

Authors: Xiaoyi Jia, South China University of Technology; Xiangmin Xu, South China University of Technology; Bolun Cai, South China University of Technology; Kailing Guo, South China University of Technology

### **Oral Session 3: Person Identity and Emotion**

Paper ID: 56 Title: A Novel Image Preprocessing Strategy for Foreground Extraction in Person Re-identification

Authors: Daiyin Wang, Peking University; Wenbin Yao, Peking University; Yuesheng Zhu, Peking University

Paper ID:261 Title: Age Estimation via Pose-Invariant 3D Face Alinement Feature in 3 Streams of CNN

Author: Li Sun, East China Normal University; Song Qiu, East China Normal University; Qingli Li, East China Normal University; Hongying Liu, East China

Normal University; Mei Zhou, East China Normal University

Paper ID: 276 Title: Face Alignment Using Local Probabilistic Features

Authors: Qing Lu, University of Science and Technology of China; Jun Yu, University of Science and Technology of China; Zengfu Wang, Institute of Intelligent Machines, Chinese Academy of Sciences

Paper ID: 222 Title: Multi-Modal Emotion Recognition with Temporal-band Attention Based on LSTM-RNN

Authors: Jiamin Liu, Xi'an Jiaotong University; Yuanqi Su, Xi'an Jiaotong University; Yuehu Liu, Xi'an Jiaotong University

Paper ID: 118 Title: Multimodal Fusion of Spatial-Temporal Features for Emotion Recognition in the Wild

Authors: Zuchen Wang, Shanghai University; Yuchun Fang, Shanghai University

## **Oral Session 4: Tracking and Action Recognition**

Paper ID: 134 Title: Adaptive Correlation Filter Tracking with Weighted Foreground Representation

Authors: Chunguang Qie, Xiamen University; Hanzi Wang, Xiamen University; Yan Yan, Xiamen University; Guanjun Guo, Xiamen University; Jin Zheng, Beihang University

Paper ID:160 Title: A Novel Method for Camera Pose Tracking Using Visual Complementary Filtering

Authors: Xiangkai Lin, Peking university; Ronggang Wang, Peking University

Paper ID: 174 Title: Trajectory-Pooled 3D Convolutional Descriptors for Action Recognition

Authors: Xiusheng Lu, Harbin Institute of Technology; Hongxun Yao, Harbin Institute of Technology; Xiaoshuai Sun, Harbin Institute of Technology; Shengping Zhang, Harbin Institute of Technology ; Yanhao Zhang, Harbin Institute of Technology

Paper ID: 220 Title: Temporal Interval Regression Network for Video Action Detection

Authors: Qing Wang, University of Chinese Academy of Sciences; Laiyun Qing, University of Chinese Academy of Sciences; Jun Miao, Beijing Information Science and Technology University; Lijuan Duan, Beijing University of Technology

Paper ID: 47 Title: Semantic Sequence Analysis for Human Activity Prediction

Authors: Guolong Wang, Tsinghua University; Zheng Qin, Tsinghua University; Kaiping Xu, Tsinghua University

Paper ID: 246 Title: Motion State Detection based Prediction Model for Body Parts Tracking of Volleyball Players  
Authors: Fanglu Xie, Waseda University; Xina Cheng, Waseda University; Takeshi Ikenaga, Waseda University

## **Oral Session 5: Detection and Classification**

Paper ID: 128 Title: Adapting Generic Detector for Semi-Supervised Scene-Specific Pedestrian Detection  
Authors: Si Wu, South China University of Technology; Shiyao Lei, South China University of Technology; Qiuji Ji, South China University of Technology; Shufeng Wang, South China University of Technology

Paper ID: 147 Title: StairsNet: Mixed Multi-Scale Network for Object Detection  
Authors: Weiyi Gao, University of Chinese Academy of Sciences; Wenlong Cao, University of Chinese Academy of Sciences; Jian Zhai, Institute of Software, Chinese Academy of Sciences National Engineering Research Center of Fundamental Software; Jianwu Rui, Institute of Software, Chinese Academy of Sciences National Engineering Research Center of Fundamental Software

Paper ID: 110 Title: A Dual-CNN Model for Multi-label Classification by Leveraging Co-occurrence Dependencies between Labels  
Authors: Peng-Fei Zhang, Shandong University; Hao-Yi Wu, University of Tasmania; Xin-Shun Xu, Shandong University

Paper ID: 280 Title: Multi-level Semantic Representation for Flower Classification  
Authors: Chuang Lin, Harbin Institute of Technology; Hongxun Yao, Harbin Institute of Technology; Wei Yu, Harbin Institute of Technology; Wenbo Tang, Harbin Institute of Technology

Paper ID: 159 Title: Multi-View Multi-Label Learning via Optimal Classifier Chain  
Author: Yiming Liu, Shandong University; Xingwei Hao, Shandong University

Paper ID: 229 Title: Tire X-ray Image Impurity Detection Based on Multiple Kernel Learning  
Authors: Shuai Zhao, Beijing Institute of Technology; Zhineng Chen, Institute of Automation, Chinese Academy of Sciences; Baokui Li, Beijing Institute of Technology; Bin Zhang, Chinese Academy of Sciences

## **Oral Session 6: Multimedia Signal Reconstruction and Recovery**

Paper ID: 105 Title: CRF-Based Reconstruction From Narrow-Baseline Image Sequences

Authors: Yue Xu, Zhejiang University; Lianghao Wang, Zhejiang University; Qiuyan Tao, Zhejiang University; Dongxiao Li, Zhejiang University; Ming Zhang, Zhejiang University

Paper ID: 264 Title: Better and Faster, when ADMM Meets CNN: Compressive-sensed Image Reconstruction

Authors: Chen Zhao, Peking University Shenzhen Graduate School; Ronggang Wang, Peking University Shenzhen Graduate School; Wen Gao, Peking University Shenzhen Graduate School;

Paper ID: 22 Title: Sparsity-promoting Adaptive Coding with Robust Empirical Mode Decomposition for Image Restoration

Authors: Rui Chen, Peking University; Huizhu Jia, Peking University; Xiaodong Xie, Peking University; Wen Gao, Peking University

Paper ID: 72 Title: A Splicing Interpolation Method for Head-related Transfer Function

Authors: Chunling Ai, Wuhan University; Xiaochen Wang, Wuhan University; Yafei Wu, Wuhan University; Cheng Yang, Wuhan University

Paper ID: 7 Title: Structured Convolutional Compressed Sensing Based on Deterministic Subsamplers

Author: Shu Wang, Electrical Engineering Department of Imperial College London; Zhongyuan Wang, Wuhan University; Yimin Luo, Remote Sensing Information Engineering School of Wuhan University

Paper ID: 117 Title: Blind Speech Deconvolution via Pretrained Polynomial Dictionary and Sparse Representation

Author: Jian Guan, Harbin Institute of Technology; Xuan Wang, Harbin Institute of Technology; Shuhan Qi, Harbin Institute of Technology; Jing Dong, Nanjing Tech University; Wenwu Wang, Centre for Vision, Speech and Signal Processing

University of Surrey, Guildford, GU2 7XH, United Kingdom

## **Oral Session 7: Text and Line Detection/Recognition**

Paper ID:180 Title: Multi-lingual Scene Text Detection Based on Fully Convolutional Networks

Author: Xi Wang, Institute of Information Engineering, Chinese Academy of Sciences; Shaohua Liu, Beijing University of Posts and Telecommunications; Yan Shang, Beijing University of Posts and Telecommunications, Jizhong Han, Institute of Information Engineering, Chinese Academy of Sciences; Hongchao Gao , Institute of Information Engineering, Chinese Academy of Sciences; Dongqin Liu, Institute of Information Engineering, Chinese Academy of Sciences

Paper ID:260 Title: Cloud of Line Distribution for Arbitrary Text Detection in Scene/Video/License Plate Images

Authors: Wenhai Wang, Nanjing University; Yirui Wu, Nanjing University; Shivakumara Palaiahnakote , University of Malaya; Tong Lu, Nanjing University; Jun Liu, Nanyang Technological University

Paper ID: 170 Title: Affine Collaborative Representation Based Classification For In-air Handwritten Chinese Character Recognition

Authors: Zhaochun Xu, University of Chinese Academy of Sciences; Weiqiang Wang, University of Chinese Academy of Sciences; Ke Lu, University of Chinese Academy of Sciences; Jianshe Zhou, Capital Normal University; Jie Liu, Capital Normal University;

Paper ID: 96 Title: Overlaid Chinese Character Recognition Via a Compact CNN  
Authors: Hongzhu Li, University of Chinese Academy of Sciences; Weiqiang Wang, University of Chinese Academy of Sciences

Paper ID:86 Title: Efficient and Robust Lane Detection using Three-stage Feature Extraction with Line Fitting

Author: Aming Wu, Tianjin University; Yahong Han, Tianjing University

## **Oral Session 8: Social Media**

Paper ID: 205 Title: Saliency-GD: A TF-IDF Analogy for Landmark Image Mining

Authors: Wei Li, Tsinghua University; Jianmin Li, Tsinghua University; Bo Zhang, Tsinghua University



Paper ID: 63 Title: An Improved Clothing Parsing Method Emphasizing the Clothing with Complex Texture

Authors: Juan Ji, Nanjing University; Ruoyu Yang, Nanjing University

Paper ID: 136 Title: Detection of Similar Geo-Regions based on Visual Concepts in Social Photos

Authors: Hiroki Takimoto, Nagoya University; Magali Philippe, Chukyo University; Keisuke Doman, Chukyo University; Yasutomo Kawanishi, Nagoya University; Ichiro Idez, Nagoya University; Takatsugu Hirayamaz, Nagoya University; Daisuke Deguchiz, Nagoya University; Hiroshi Murase, Nagoya University

Paper ID: 90 Title: Unsupervised Concept Learning in Text Subspace for Cross-media Retrieval

Authors: Mengdi Fan, Peking University; Wenmin Wang, Peking University; Peilei Dong, Peking University; Ronggang Wang, Peking University; Gary Li, Peking University

Paper ID: 91 Title: Image Stylization for Thread Art via Color Quantization and Sparse Modeling

Authors: Kewei Yang, Nanjing University; Zhengxing Sun, Nanjing University; Shuang Wang, Nanjing University; Hui-Hsia Chen, Asia University

## **Oral Session 9: 3D and Panoramic Vision**

Paper ID: 248 Title: MCTD: Motion-Coordinate-Time Descriptor for 3D Skeleton-Based Action Recognition

Authors: Qi Liang, East China Normal University; Feng Wang, East China Normal University

Paper ID: 57 Title: Dense Frame-to-Model SLAM with an RGB-D Camera

Authors: Xiaodan Ye, Zhejiang University; Jianing Li, Zhejiang University; Lianghao Wang, Zhejiang University; Dongxiao Li, Zhejiang University; Ming Zhang, Zhejiang University

Paper ID: 162 Title: Parallax-Robust Hexahedral Panoramic Video

Authors: Sha Guo, Peking University; Ronggang Wang, Peking University; Xiubao Jiang, Peking University; Zhenyu Wang, Peking University; Wen Gao, Peking University

Paper ID: 243 Title: Image Formation Analysis and Light Field Information Reconstruction for Plenoptic Camera 2.0

Authors: Li Liu, Tsinghua University; Xin Jin, Tsinghua University; Qionghai Dai, Tsinghua University

Paper ID:95 Title: Part Detection for 3D Shapes via Multi-view Rendering

Author: Youcheng Song, Nanjing University; Zhengxing Sun, Nanjing University; Mofei Song, Nanjing University; Yunjie Wu, Nanjing University

## Special Session

### Special Session 1: Multimedia Analysis and Applications from Multiple Social Networks

Paper ID: 98 Title: Least-Squares Regulation based Graph Embedding

Authors: Si-xing Liu, JiangSu University; Xiang-Jun Shen, Jiangsu University; Timothy A. Abeo, JiangSu University

Paper ID: 154 Title: SSGAN: Secure Steganography Based on Generative Adversarial Networks

Authors: Haichao Shi, Institute of Information Engineering, Chinese Academy of Sciences; School of Cyber Security, University of Chinese Academy of Sciences; Jing Dong, Chinese Academy of Sciences; Wei Wang, Center for Research on Intelligent Perception and Computing, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences; Yinlong Qian, Center for Research on Intelligent Perception and Computing, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences; Xiao-Yu Zhang, Institute of Information Engineering, Chinese Academy of Sciences

Paper ID: 233 Title: Generating Chinese poems from images based on neural network

Authors: Shuo Xing, Hefei University of Technology; Xueliang liu, Hefei University of Technology; Richang Hong, Hefei University of Technology; Ye Zhao, Hefei University of Technology

Paper ID: 256 Title: Detail-Enhancement Dehazing Method using Guided Image Filter and Laplacian Pyramid

Authors: Long Xu, National Astronomical Observatories, Chinese Academy of Sciences; Dong Zhao, National Astronomical Observatories, Chinese Academy of

Sciences

Paper ID:284 Title: Personalized Micro-video Recommendation via Hierarchical User Interest Modeling

Authors: Lei Huang, Nanjing University; Bin Luo, Nanjing University

Paper ID:297 Title: A Fast and General Method for Partial Face Recognition

Authors: Qianhao Wu, Nanjing University of Science and Technology; Zechao Li, Nanjing University of Science and Technology

## **Special Session 2: Immersive 3D-like data compression and quality assessment**

Paper ID: 25 Title: Benchmarking Screen Content Image Quality Evaluation in Spatial Psychovisual Modulation Display System

Authors: Yuanchun Chen, Shanghai Jiao Tong University; Guangtao Zhai, Shanghai Jiao Tong University; Ke Gu, Beijing University of Technology; Xinfeng Zhang, Nanyang Technological University; Weisi Lin, Nanyang Technological University; Jiantao Zhou, University of Macau

Paper ID: 215 Title: A Fast Sample Adaptive Offset Algorithm for H.265/HEVC

Authors : Yan Zhou, Wuhan University; Zhenzhong Chen, Wuhan University

Paper ID: 285 Title: Blind Quality Assessment for Screen Content Images by Texture Information

Authors: Ning Lu, Huazhong University of Science and Technology ; Guohui Li, Huazhong University of Science and Technology

Paper ID: 111 Title: Assessment of visually induced motion sickness in immersive videos

Authors: Huiyu Duan, Shanghai Jiao Tong University; Guangtao Zhai, Shanghai Jiao Tong University; Xiongkuo Min, Shanghai Jiao Tong University; Yucheng Zhu, Shanghai Jiao Tong University; Wei Sun, Shanghai Jiao Tong University; Xiaokang Yang , Shanghai Jiao Tong University;

Paper ID: 131 Title: Hybrid kernel-based template prediction and intra block copy for light field image coding

Authors: Deyang Liu, Shanghai University; Ping An, Shanghai University; Ran

Ma, Shanghai University; Xinpeng Huang, Shanghai University; Liquan Shen, Shanghai university

Paper ID: 166 Title: Asymmetric Representation for 3D Panoramic Video  
Authors: Guisen Xu, Peking University; Ronggang Wang, Peking University; Yueming Wang, Peking University; Zhenyu Wang, Peking University

## **Special Session 3: Deep Learning for Multimedia Signal Processing and Understanding(1)**

Paper ID:37 Title: Shallow and deep model investigation for distinguishing corn and weeds

Authors: Yu Xia, Harbin Institute of Technology; Hongxun Yao, Harbin Institute of Technology; Xiaoshuai Sun, Harbin Institute of Technology; Yanhao Zhang, Harbin Institute of Technology

Paper ID: 102 Title: Representing Discrimination of Video by a Motion Map  
Authors: Wennan Yu, Beijing Institute of Technology; Yuchao Sun, Beijing Institute of Technology; Feiwu Yu, Beijing Institute of Technology; Xinxiao Wu, Beijing Institute of Technology

Paper ID: 119 Title: Multi-scale Discriminative Patches for Fined-grained Visual Categorization

Authors: Wenbo Tang, Harbin Institute of Technology; Hongxun Yao, Harbin Institute of Technology; Xiaoshuai Sun, Harbin Institute of Technology; Wei Yu, Harbin Institute of Technology

Paper ID: 223 Title: Chinese Characters Recognition from Screen-Rendered images using Inception Deep Learning Architecture

Authors: Jun Zhou, Wuhan University of Science and Technology; Xin Xu, Wuhan University of Science and Technology; Hong Zhang, Wuhan University of Science and Technology ; Xiaowei Fu, Wuhan University of Science and Technology

Paper ID: 249 Title: Visual Tracking by Deep Discriminative Map  
Authors: Wenyi Tang, University of Science and Technology of China; Bin Liu, University of Science and Technology of China; Nenghai Yu, University of Science and Technology of China

Paper ID: 254 Title: Hand Gesture Recognition by Using 3DCNN and LSTM with Adam Optimizer

Authors: Siyu Jiang, Shanghai University; Yimin Chen, Shanghai University.

Paper ID: 169 Title: Learning Temporal Context for Correlation Tracking with Scale Estimation

Authors: Yuhao Cui , Graduate School at Shenzhen, Tsinghua University; Haoqian Wang, Graduate School at Shenzhen, Tsinghua University ; Yi Yang, Shenzhen Institute of Future Media Technology

## **Special Session 4 : Large-Scale Multimedia Affective Computing**

Paper ID: 126 Title: Sketch based Model-Like Standing Style Recommendation

Authors: Ying Zheng, Harbin Institute of Technology; Hongxun Yao, Harbin Institute of Technology; Dong Wang, Harbin Institute of Technology

Paper ID: 227 Title: Joint L1-L2 Regularisation for Blind Speech Deconvolution

Author: Jian Guan, Harbin Institute of Technology; Xuan Wang, Harbin Institute of Technology ; Zongxia Xie, Tianjin University,; Shuhan Qi, Harbin Institute of Technology ; Wenwu Wang, Centre for Vision, Speech and Signal Processing University of Surrey, Guildford, GU2 7XH, United Kingdom

Paper ID: 237 Title: Multi-modal Emotion Recognition Based on Speech and Image

Authors: Yongqiang Li, Harbin Institute of Technolgo; Qi He, Harbin Institute of Technology; Yongping Zhao, Harbin Institute of Technolgo; Hongxun Yao, Harbin Institute of Technology

Paper ID: 252 Title: Analysis of Psychological Behavior of Undergraduates

Author: Chunchang Gao, University of Shanghai for Science and Technoligy

## **Special Session 5: Sensor-enhanced Multimedia Systems**

Paper ID: 213 Title: Compression Artifacts Reduction for Depth Map by Deep Intensity Guidance

Authors: Pingping Zhang, Shenzhen University; Xu Wang, Shenzhen University; Yun Zhang, Shenzhen Institutes of Advanced Technology; Lin Ma, Tencent AI Lab , Shenzhen; Jianmin Jiang, Shenzhen University; Sam Kwong, City Univeristy of Hong Kong

Paper ID: 293 Title: LiPS: Learning Social Relationships in Probe Space

Authors: Chaoxi Li, Shenzhen University; Chengwen Luo, College of Computer Science and Software Engineering, Shenzhen University; Junliang Chen, Shenzhen University; Jianqiang Li, Shenzhen University; Hande Hong, National University of Singapore; Long Chen, VirginiaTech, USA

Paper ID: 294 Title: The Intelligent Monitoring for the Elderly Based on WiFi Signals

Author: Nan Bao, Northeastern University; Chengyang Wu, Northeastern University; Qiancheng Liang, Northeastern University; LishengXu, Northeastern University ;Guozhi Li, Northeastern University; Ziyu Qi, Northeastern University; Wangyi Zhang, Northeastern University ; He Ma, Northeastern University; Yan Li, Troops 31411 of People's Liberation Army, China

Paper ID: 295 Title: Sentiment Analysis for Social Sensor

Authors: Xiaoyu Zhu, Shandong University; Tian Gan, Shandong University; Xueming Song, Shandong University; Zhumin Chen, Shandong University

Paper ID: 296 Title: Recovering Overlapping Partial for Monaural Perfect Harmonic Musical Sound Separation Using Modified Common Amplitude Modulation

Authors: Yukai Gong, Nanjing University of Science and Technology ; Xiangbo Shu, Nanjing University of Science and Technology; Jinhui Tang, Nanjing University of Science and Technology

## **Special Session 6: Deep Learning for Multimedia Signal Processing and Understanding(2)**

Paper ID: 277 Title: Deep Combined Image Denoising with Cloud Images

Authors: Sifeng Xia, Peking University; Wenhan Yang, Peking University; Mading Li, Peking University; Jiaying Liu, Peking University; Zongming Guo, Peking University

Paper ID: 24 Title: Vehicle Verification Based on Deep Siamese Network with Similarity Metric

Authors: Qian Zhang, Beijing Institute of Technology; Mingtao Pei, Beijing Institute of Technology; Mei Chen, Department: Electrical and Computer Engineering, State University of New York at Albany, NY 12222, USA; Yunde Jia, Beijing Institute of Technology

Paper ID: 41 Title: Style transfer with content preservation from multiple images

Authors: Dilin Liu, Harbin Institute of Technology; Wei Yu, Harbin Institute of Technology; Hongxun Yao, Harbin Institute of Technology

Paper ID: 224 Title: Task-specific Neural Networks for Pose Estimation in Person Re-identification Task

Author: Kai Lv, Beihang University; Hao Sheng, Beihang University; Yanwei Zheng, Beihang University; Zhang Xiong, Beihang University; Wei Li, Beihang University; Wei Ke, Macao Polytechnic Institute,

Paper ID: 298 Title: Mini Neural Networks for Effective and Efficient Mobile Album Organization

Authors: Lingling Fa, Nanjing University of Science and Technology; Lifei Zhang, Nanjing University of Science and Technology; Xiangbo Shu, S Nanjing University of Science and Technology; Yan Song, Nanjing University of Science and Technology; Jinhui Tang, Nanjing University of Science and Technology

PaperID: 48 Title: Sweeper: Design of the Augmented Path in Residual Networks

Authors: Kang Shi, University of Chinese Academy of Sciences; Weiqiang Wang, University of Chinese Academy of Sciences

## Poster Session

### Poster Session 1

#### Poster Area A

Paper ID:5 Title: A Competitive Combat Strategy and Tactics in RTS Games AI and Starcraft

Author: Khan Adil, Harbin Institute of Technology; Kai Yang, Chinese People's Liberation Army Aviation School; Yunsheng Fu, Institute of Computer Applications, China Academy of Engineering Physics; Fang Lou, Institute of Computer Applications, China Academy of Engineering Physics; Worku Jifara, Harbin Institute of Technology ; Feng Jiang, Harbin Institute of Technology ; Liu Shaohui, Harbin Institute of Technology

Paper ID:10 Title: Target depth measurement for machine monocular vision

Author: Jiafa Mao, Zhejiang University of Technology; Mingguo Zhang, Zhejiang University of Technology; Linan Zhu, Zhejiang University of Technology; Cong Bai, Zhejiang University of Technolog; Gang Xiao, Zhejiang University of Technology

Paper ID: 15 Title: Automatic Background Adjustment for Chinese Paintings

Using Pigment Lines

Author: Jie Guo, Nanjing University; Chunyou Li, Nanjing University; Jingui Pan, Nanjing University

Paper ID: 18 Title: Indoor Scene Classification by Incorporating Predicted Depth Descriptor

Author: Yingbin Zheng, Shanghai Advanced Research Institute, Chinese Academy of Sciences; Jian Pu, East China Normal University; Hong Wang, Shanghai Advanced Research Institute, Chinese Academy of Sciences; Hao Ye, Shanghai Advanced Research Institute, Chinese Academy of Sciences

Paper ID: 20 Title: Content-Based Image Recovery

Author: Hong-Yu Zhou, Nanjing University; Jianxin Wu, Nanjing University

Paper ID:23 Title: Multiple Thermal Face Detection in Unconstrained Environments Using Fully Convolutional Networks

Author: Yezhao Fan, Shanghai Jiao Tong University; Guangtao Zhai, Shanghai Jiao Tong University; Jia Wang, Shanghai Jiao Tong University; Menghan Hu, Shanghai Jiao Tong University; Wenhan Zhu, Shanghai Jiao Tong University; Jing Liu, Tianjin University

Paper ID:26 Title: Object Proposal via Depth Connectivity Constrained Grouping

Author: Yuantian Wang, Nanjing University; Lei Huang, Nanjing University; Tongwei Ren, Nanjing University; Sheng-hua Zhong, Shenzhen University; Yan Liu, The Hong Kong Polytechnic University; Gangshan Wu, Nanjing University

Paper ID:34 Title: Edge-aware saliency detection via novel graph model

Author: Hanpei Yang, University of Science and Technology of China; Weihai Li, University of Science and Technology of China

Paper ID:35 Title: Multiple Kernel Learning based on Weak Learner for Automatic Image Annotation

Author: Hua Zhong, Dalian University of Technology; Xu Yuan, Dalian University of Technology; Zhikui Chen, Dalian University of Technology; Fangming Zhong, Dalian University of Technology; Yonglin Leng, Dalian University of Technology

Paper ID:36 Title: An Efficient Feature Selection for SAR Target Classification

Author: Moussa Amrani, Harbin Institute of technology; Kai Yang, Chinese people's Liberation Army Aviation School; Dongyang Zhao, Beijing Institute of Computer Application; Xiaopeng Fan, Harbin Institute of Technology; Feng Jiang, Harbin Institute of Technology



## Poster Area B

Paper ID:38 Title: Integrating Visual Word Embeddings into Translation Language Model for Keyword Spotting on Historical Mongolian Document Images  
Author: Hongxi Wei, Inner Mongolia University; Hui Zhang, Inner Mongolia University; Guanglai Gao, Inner Mongolia University

Paper ID:40 Title: Fine-art Painting Classification via Two-channel Deep Residual Network  
Author: Xingsheng Huang, Shenzhen University; Sheng-hua Zhong, Shenzhen University; Zhijiao Xiao, Shenzhen University

Paper ID:42 Title: The Analysis for Binaural Signal's Characteristics of a Real Source and Corresponding Virtual Sound Image  
Author: Jinshan Wang, WuHan University; Xiaochen Wang , WuHan University; Weiping Tu , WuHan University; Jun Chen, WuHan University; Tingzhao Wu, WuHan University; Shanfa Ke, WuHan University

Paper ID:45 Title: Automatic Foreground Seeds Discovery for Robust Video Saliency Detection  
Author: Lin Zhang, Beijing Institute of Technology; Yao Lu, Beijing Institute of Technology; Tianfei Zhou, Beijing Institute of Technology

Paper ID:46 Title: Primary-Ambient Extraction Based on Channel Pair for 5.1 Channel audio Using Least Square  
Author: Dingyan Song, Wuhan University; Ge Gao, Wuhan university; Yi Chen, Central China Normal University; Xi Hu, Wuhan university

Paper ID: 49 Title: Multi-scale Similarity Enhanced Guided Normal Filtering  
Authors: Wenbo Zhao, Harbin Institute of Technology; Xianming Liu, Harbin Institute of Technology; Shiqi Wang, University of Hong Kong; Debin Zhao, Harbin Institute of Technology

Paper ID:50 Title: Semantic R-CNN for natural language object detection  
Author: Shuxiong Ye, Tsinghua University; Zheng Qin, Tsinghua University; Kaiping Xu, Tsinghua University; Kai Huang, Tsinghua University; Guolong Wang, Tsinghua University

Paper ID:51 Title: Deep Residual Convolution Neural Network for Single-Image Robust Crowd Counting  
Author: Mingjie Lu, Fudan University; Bo Yan, Fudan University

Paper ID:55 Title: An Efficient Method Using the Parameterized HRTFs for 3D Audio Real-Time Rendering on Mobile Devices

Author: Yucheng Song, Wuhan University; Weiping Tu, Wuhan University; Ruimin Hu, Wuhan University; Xiaochen Wang, Wuhan University; Wei Chen, Wuhan University; Cheng Yang, Guizhou Normal University

Paper ID:54 Title: Efficient Logo Insertion Method for High-resolution H.265/HEVC Compressed Video

Author: Qi Jing, Peking University; Peng Xu, Peking University; Jun Sun, Peking University, and Cooperative Medianet Innovation Center; Zongming Guo, Peking University, and Cooperative Medianet Innovation Center

## Poster Area C

Paper ID:60 Title: Spatial-Temporal Context Networks for Video Question Answering

Author: Kun Gao, Tianjin University; Yahong Han, Tianjing University

Paper ID:61 Title: Object Discovery and Cosegmentation Based on Dense Correspondences

Author: Yasi Wang, Harbin Institute of Technology; Hongxun Yao, Harbin Institute of Technology; Wei Yu, Harbin Institute of Technology; Xiaoshuai Sun, Harbin Institute of Technology

Paper ID:62 Title: Image Decomposition based Nighttime Image Enhancement

Author: Xuesong Jiang, Harbin Institute of Technology; Hongxun Yao, Harbin Institute of Technology; Dilin Liu, Harbin Institute of Technology

Paper ID:65 Title: PSNR estimate for JPEG compression

Author: Ci Wang, East China Normal University; Ying Yang, East China Normal University; Jianhua Shen, East China Normal University

Paper ID:67 Title: Semantic Segmentation using Fully Convolutional Networks and Random Walk with Prediction Prior

Author: Xiaoyu Lei, Beijing Institute of Technology; Yao Lu, Beijing Institute of Technology; Tingxi Liu, Beijing Institute of Technology; Xiaoxue Shi, Beijing Institute of Technology

Paper ID:71 Title: Multi-Modality Fusion Network for Action Recognition

Author: Kai Huang, Tsinghua University; Zheng Qin, Tsinghua University; Kaiping Xu, Tsinghua University; Shuxiong Ye, Tsinghua University; Guolong Wang, Tsinghua University

Paper ID:73 Title: Fusing Appearance Features and Correlation Features for Face

## Video Retrieval

Author: Chenchen Jing, Beijing Institute of Technology; Zhen Dong, Beijing Institute of Technology; Mingtao Pei, Beijing Institute of Technology; Yunde Jia, Beijing Institute of Technology

Paper ID:76 Title: A Robust Image Reflection Separation Method Based on Sift-edge Flow

Author: Shaomin Du, Beihang University; Xiaohui Liang, Beihang University; Xiaochuan Wang, Beihang University

Paper ID:77 Title: Speech Intelligibility Enhancement in Strong Mechanical Noise Based on Neural Networks

Author: Feng Cheng, Wuhan University; Xiaochen Wang, Wuhan University; Li Gang, Wuhan University; Weiping Tu, Wuhan University; Jinshan Wang, Wuhan University

Paper ID:78 Title: Interactive Temporal Visualization Of Collaboration Networks

Author: Ming Jing, Shandong University; Xueqing Li, Shandong University; Yupeng Hu, Shandong University

## Poster Area D

Paper ID:79 Title: On the Impact of Environmental Sound on Perceived Visual Quality

Author: Wenhan Zhu, Shanghai Jiao Tong University; Guangtao Zhai, Shanghai Jiao Tong University; Wei Sun, Shanghai Jiao Tong University; Yi Xu, Shanghai Jiao Tong University; Jing Liu, Tianjin University; Yucheng Zhu, Shanghai Jiao Tong University; Xiaokang Yang, Shanghai Jiao Tong University

Paper ID:80 Title: A Fine-grained Filtered Viewpoint Informed Keypoint Prediction From 2D Images

Author: Qingnan Li, Wuhan University; Ruimin Hu, Wuhan University; Yixin Chen, Wuhan University; Jingwen Yan, Wuhan University; Jing Xiao, Wuhan University

Paper ID:82 Title: More Efficient, Adaptive and Stable, a New Virtual Fitting System Using Kinect

Author: Chang-Tai Xiong, Nanjing University; Shun-Lei Tang, Nanjing University; Ruo-Yu Yang, Nanjing University

Paper ID:84 Title: A Novel Texture Exemplars Extraction Approach Based on Patches Homogeneity and Defect Detection

Author: Hui Lai, Shenzhen University; Lulu Yin, Shenzhen University; Huisi Wu, Shenzhen University; Zhenkun Wen, Shenzhen University

Paper ID:87 Title: Exploiting Sub-region Deep Features for Specific Action Recognition in Combat Sports Video

Author: Yongqiang Kong, Ocean university of China; Zhaoqiang Wei, Ocean university of China; Zhengang Wei, Ocean university of China; Shengke Wang, Ocean university of China; Feng Gao, Ocean university of China

Paper ID:92 Title: Face Anti-Spoofing Based On Motion

Author: Ran Wang, Wuhan University; Jing Xiao, Wuhan University; Ruimin Hu, Wuhan University; Xu Wang, Wuhan University

Paper ID:93 Title: A Novel Action Recognition Scheme Based on Spatial-temporal Pyramid Model

Author: Hengying Zhao, Nanjing University of Science and Technology; Xinguang Xiang, Nanjing University of Science and Technology

Paper ID:97 Title: Co-saliency Detection via Sparse Reconstruction and Co-Salient Object Discovery

Author: Bo Li, Nanjing University; Zhengxing Sun, Nanjing University; Jiagao Hu, Nanjing University; Junfeng Xu, Nanjing University

Paper ID:99 Title: Repetitiveness Metric of Exemplar for Texture Synthesis

Author: Lulu Yin, Shenzhen University; Hui Lai, Shenzhen University; Huisi Wu, Shenzhen University; Zhenkun Wen, Shenzhen University

Paper ID:100 Title: Robust Local Effective Matching Model for Multi-Target Tracking

Author: Hao Sheng, Beihang University; Li Hao, Beihang University; Jiahui Chen, Beihang University; Yang Zhang, Beihang University; Wei Ke, Macao Polytechnic Institute

## Poster Area E

Paper ID:103 Title: Group Burstiness Weighting for Image Retrieval

Author: Mao Wang, National University of Defense Technology; Qiang Liu, National University of Defense Technology; Yuwei Ming, National University of Defense Technology; Jianping Yin, National University of Defense Technology

Paper ID:109 Title: Unsupervised Cross-modal Hashing with Soft Constraint

Author: Yuxuan Zhou, University of Electronic Science and Technology of China; Yaoxian Li, University of Electronic Science and Technology of China; Rui Liu, University of Electronic Science and Technology of China; Lingyun Hao, Xidian University; Yuanliang Sun, Southeast University

Paper ID:120 Title: Scalable Video Coding Based on the User's View for Real-Time Virtual Reality Applications

Author: Hao Jiang, Xidian University; Gang He, Xidian University; Wenxin Yu, Southwest University of Science and Technology; Zheng Wang, Xidian University; Yunsong Li, Xidian University

Paper ID:121 Title: Stereo Saliency Analysis Based on Disparity Influence and Spatial Dissimilarity

Author: Lijuan Duan, Beijing University of Technology; Fangfang Liang, Beijing University of Technology; Wei Ma, Beijing University of Technology; Shuo Qiu, Beijing University of Technology

Paper ID:124 Title: Towards Visual SLAM with Memory Management for Large-scale Environments

Author: Fu Li, National University of Defense Technology; Shaowu Yang, National University of Defense Technology; Xiaodong Yi, National University of Defense Technology; Xuejun Yang, National University of Defense Technology

Paper ID:125 Title: Object Classification of Remote Sensing Images Based on Rotation-Invariant Discrete Hashing

Author: Hui Xu, Nanjing University of Science and Technology; Yazhou Liu, Nanjing University of Science and Technology; Quansen Sun, Nanjing University of Science and Technology

Paper ID:127 Title: Entropy Based Sub-Band Deletion for Multispectral Image Compression

Author: Worku J. Sori, Harbin Institute of Technology; Zhao Dongyang, Beijing Institute of Computer Application.; Lou Fang, Institute of Computer Application, China Academy of Engineering physics.; Fu Yusheng, Institute of Computer Application, China Academy of Engineering physics.; Liu Shaohui, Harbin Institute of Technology; Feng Jiang, Harbin Institute of Technology; Khan Adil, Harbin Institute of Technology

Paper ID:129 Title: Automatic Texture Exemplar Extraction Based on a Novel Textureness Metric

Author: Huisi Wu, Shenzhen University; Junrong Jiang, Shenzhen University; Ping Li, Macau University of Science and Technology; Zhenkun Wen, Shenzhen University

Paper ID: 32 Title: In Defense of Fully Connected Layers in Visual Representation Transfer

Authors: Chen-Lin Zhang, Nanjing University; Jian-Hao Luo, Nanjing University; Xiu-Shen Wei, Nanjing University; Jianxin Wu, Nanjing University

## Poster Session 2

### Poster Area A

Paper ID:132 Title: Image Quality Assessment for Video Surveillance System  
Author: Jianhua Shen, East China Normal University; Hongyan Zhang, East China Normal University; Ci Wang, East China Normal University

Paper ID:135 Title: Robust Principal Component Analysis via Symmetric Alternating Direction for Moving Object Detection  
Author: Zhenzhou Shao, Capital Normal University; Gaoyu Wu, Capital Normal University; Ying Qu, University of Tennessee; Zhiping Shi, Capital Normal University; Yong Guan, Capital Normal University; Jindong Tan, University of Tennessee

Paper ID:137 Title: Block Cluster Based Dictionary Learning for Image De-noising and De-blurring  
Author: Jianwei Zheng, Zhejiang University of Technology; Ping Yang, Zhejiang University of Technology; Shanshan Fang, Zhejiang University of Technology; Cong Bai, Zhejiang University of Technology

Paper ID:139 Title: Driver Head Analysis based on Deeply Supervised Transfer Metric Learning with Virtual Data  
Author: Keke Liu, Nanjing University of Science and Technology; Yazhou Liu, Nanjing University of Science and Technology; Quansen Sun, Nanjing University of Science and Technology; Sugiri Pranata, Panasonic R&D Center Singapore; Shengmei Shen, Panasonic R&D Center Singapore

Paper ID:140 Title: Content Adaptive Constraint Based Image Upsampling  
Author: Fan Yang, Peking University; Huizhu Jia, Peking University; Don Xie, Peking University; Rui Chen, Peking University; Wen Gao, Peking University

Paper ID:142 Title: Joint Dictionary Learning via Split Bregman Iteration for Large-Scale Image Classification  
Author: Yanyun Qu, Xiamen University; Hanqian Li, Xiamen University; Yan Zhang, Xiamen University

Paper ID:143 Title: Multi-operator Image Retargeting with Preserving Aspect Ratio of Important Contents  
Author: Qian Zhang, Guangxi University; Zhenhua Tang, Guangxi University; Hongbo Jiang, Huazhong University of Science and Technology; Kan Chang, Guangxi University

Paper ID:149 Title: Human Action Recognition in Videos of Realistic Scenes Based on Multi-Scale CNN Feature

Author: Yongsheng Zhou, Southwest University; Song Wu, Leiden University; Guoqiang Xiao, Southwest University; Nan Pu, Southwest University; Li Qian, Southwest University; Song Wu, Southwest University; Guoqiang Xiao, Southwest University

Paper ID:156 Title: Construction of Sampling Two-Channel Nonseparable Wavelet Filter Bank and its Fusion Application for Multispectral Image Pansharpening

Author: Bin Liu, Hubei University; Weijie Liu, Wuhan University; Longxiang Xu, Hubei University

Paper ID:164 Title: Data Reconstruction Based on Supervised Deep Auto-Encoder

Author: Ting Rui, PLA University of Science and Technology, and Nanjing University; Sai Zhang, PLA University of Science and Technology; Tongwei Ren, Nanjing University; Jian Tang, PLA University of Science and Technology; Junhua Zou, PLA University of Science and Technology;

## Poster Area B

Paper ID:165 Title: Automatic Facial Complexion Classification Based on Mixture Model

Author: Minjie Xu, Fudan University; Chunrong Guo, Shanghai University of Traditional Chinese Medicine; Yangyang Hu, Fudan University; Hong Lu, Fudan University; Xue Li, Shanghai University of Traditional Chinese Medicine; Fufeng Li, Shanghai University of Traditional Chinese Medicine; Wenqiang Zhang, Fudan University

Paper ID:167 Title: A novel fragile watermarking scheme for 2D vector map authentication

Author: Guoyin Zhang, Harbin Engineering University; Qingan Da, Harbin Engineering University; Liguozhang, Harbin Engineering University; Jianguo Sun, Harbin Engineering University; Qilong Han, Harbin Engineering University; Liang Kou, Harbin Engineering University; Wenshan Wang, Harbin Engineering University; Liang Kou, Harbin Engineering University

Paper ID:172 Title: Spectral Context Matching for Video Object Segmentation under Occlusion

Author: Xiaoxue Shi, Beijing Institute of Technology; Yao Lu, Beijing Institute of Technology; Tianfei Zhou, Beijing Institute of Technology; Xiaoyu Lei, Beijing Institute of Technology

Paper ID:173 Title: Hierarchical Tree Representation based Face Clustering for Video Retrieval

Author: Pengyi Hao, Zhejiang University of technology; Edwin Manhando, Zhejiang University of technology; Cong Bai, Zhejiang University of Technology; Yujiao Huang, Zhejiang University of Technolog

Paper ID:176 Title: Improved Key Poses Model for Skeleton-Based Action Recognition

Author: Xiaoqiang Li, Shanghai University; Yi Zhang, Shanghai University; Junhui Zhang, shanghai university

Paper ID:177 Title: Pic2Geom: A Fast Rendering Algorithm for Low-Poly Geometric Art

Author: Ruisheng Ng, Multimedia University; Lai-Kuan Wong, Multimedia University; John See, Multimedia University

Paper ID:182 Title: Attention Window Aware Encoder-Decoder Model for Spoken Language Understanding

Author: Yiming Wang, Beihang University; Wenge Rong\*, Beihang University; Jingshuang Liu, Beihang University; Jingfei Han, Beihang University; Zhang Xiong, Beihang University

Paper ID:183 Title: A New Fast Algorithm For Sample Adaptive Offset

Author: Chentian Sun, Harbin Institute of Technology; Yang Wang, Harbin Institute of Technology; Xiaopeng Fan, Harbin Institute of Technology; Debin Zhao, Harbin Institute of Technology

Paper ID:187 Title: Motion-Compensated Deinterlacing based on Scene Change Detection

Author: Xiaotao Zhu, Hohai University; Qian Huang, Hohai University, and Jilin University; Feng Ye, Hohai University; Fan Liu, Hohai University; Shufang Xu, Hohai University; Yanfang Wang, Hohai University

Paper ID:190 Title: Hybrid Domain Encryption Method of Hyperspectral Remote Sensing Image

Author: Wenhao Geng, Beijing University of Technology; Jing Zhang, Beijing University of Technology; Lu Chen, Beijing University of Technology; Jiafeng Li, Beijing University of Technology; Li Zhuo, Beijing University of Technology

## Poster Area C

Paper ID: 193 Title: Center-adaptive Weighted Binary K-means for Image Clustering

Authors: Yinhe Lan, Shenzhen Graduate School , Peking University ; Zhenyu Weng,



Shenzhen Graduate School ,Peking University; Yuesheng Zhu, Shenzhen Graduate School, Peking University

Paper ID:207 Title: Aligned Local Descriptors and Hierarchical Global Features for Person Re-identification

Author: Yihao Zhang, Shenzhen Graduate School, Peking University; Wenmin Wang, Shenzhen Graduate School, Peking University; Jinzhuo Wang, Shenzhen Graduate School, Peking University

Paper ID:208 Title: Anomaly detection with passive aggressive online Gaussian model estimation

Author: Zheran Hong, Key Laboratory of Electromagnetic Space Information,Chinese Academy of Science, University of Science and Technology of China; Bin Liu, Key Laboratory of Electromagnetic Space Information,Chinese Academy of Science, University of Science and Technology of China; Nenghai Yu, Key Laboratory of Electromagnetic Space Information,Chinese Academy of Science, University of Science and Technology of China

Paper ID:209 Title: Multi-scale Convolutinal Neural Networks for Non-blind Image Deconvolution

Author: Xuehui Wang, Institute of Computing Technology , CAS, Graduate University of Chinese Academy of Sciences; Feng Dai, Institute of Computing Technology, CAS; Jinli Suo, Tsinghua University; Yongdong Zhang, Institute of Computing Technology, CAS; Qionghai Dai, Tsinghua University

Paper ID:217 Title: Feature-Preserving Mesh Denoising Based on Guided Normal Filtering

Authors: Renjie Wang, School of Computer Science and Technology, Harbin Institute of Technology; Wenbo Zhao, Harbin Institute of Technology; Shaohui Liu, Harbin Institute of Technology; Debin Zhao, Harbin Institute of Technology

Paper ID:218 Title: A Novel Background Subtraction Method Based On ViBe

Author: Jian Liao, Xiamen University; Hanzi Wang, Xiamen University; Yan Yan, Xiamen University; Jin Zheng, Beihang University

Paper ID:219 Title: Layout-driven Top-down Saliency Detection for Webpage

Author: Xixi Li, Wuhan University; Di Liu, Wuhan University; Kao Zhang, Wuhan University; Zhenzhong Chen, Wuhan University

Paper ID:221 Title: Saliency Detection by Superpixel-based Sparse

## Representation

Author: Guangyao Chen, Wuhan University; Zhenzhong Chen, Wuhan University

Paper ID:230 Title: Visual-Inertial RGB-D SLAM for Mobile Augmented Reality

Author: Williem, Inha University; Andre Ivan, Inha University; Hochang Seok, Hanyang University; Jongwoo Lim, Hanyang University; Kuk-Jin Yoon, Gwangju Institute of Science and Technology(GIST); Ikhwan Cho, SK Telecom; In Kyu Park, Inha University

Paper ID:232 Title: ODD: an Algorithm of Online Directional Dictionary Learning for Sparse Representation

Author: Dan Xu, Harbin Institute of Technology; Xinwei Gao, Department of Technology and Architecture, Wechat Business Group, Tencent Shenzhen City, and Harbin Institute of Technology; Xiaopeng Fan, Harbin Institute of Technology; Debin Zhao, Harbin Institute of Technology; Wen Gao, Peking University

## Poster Area D

Paper ID:234 Title: Reading Two Digital Video Clocks for Broadcast Basketball Videos

Author: Xinguo Yu, Central China Normal University; Xiaopan Lyu, Central China Normal University; Lei Xiang, Central China Normal University; Hon Wai Leong, National University of Singapore

Paper ID:238 Title: Don't Be Confused: Region Mapping Based Visual Place Recognition

Author: Dapeng Du, Nanjing University; Na Liu, Nanjing University; Xiangyang Xu, Nanjing University; Gangshan Wu, Nanjing University

Paper ID:239 Title: An Effective Head Detection Framework via Convolution Networks

Author: Canmiao Fu, Shenzhen Graduate School of Peking University; Yule Yuan, Shenzhen Graduate School of Peking University; Qiang Zeng, Shenzhen Graduate School of Peking University; Siying He, Shenzhen Graduate School of Peking University; Yong Zhao, Shenzhen Graduate School of Peking University

Paper ID:240 Title: Identifying Gambling and Porn Websites with Image Recognition

Author: Longxi Li, Institute of Information Engineering, CAS; Gaopeng Gou, Institute of Information Engineering, CAS; Gang Xiong, Institute of Information Engineering, CAS; Zigang Cao, Institute of Information Engineering, CAS; zhen li, Institute of Information Engineering, Chinese Academy of Sciences

Paper ID:241 Title: Image-set based collaborative representation for face recognition in videos

Author: Gaopeng Gou, Institute of Information Engineering, Chinese Academy of Sciences; Junzheng Shi, Institute of Information Engineering, Chinese Academy of Sciences; Gang Xiong, Institute of Information Engineering, Chinese Academy of Sciences; Peipei Fu, Institute of Information Engineering, Chinese Academy of Sciences; Zhen Li, Institute of Information Engineering, Chinese Academy of Sciences; Zhenzhen Li, Institute of Information Engineering, Chinese Academy of Sciences

Paper ID:242 Title: Style Transfer based on Style Primitive Discovery

Author: Hao Wu, Nanjing University; Zhengxing Sun, Nanjing University; Shuang Wang, Nanjing University, and Jiangsu Vocational Institute of Commerce; Weihang Yuan, Nanjing University; Hui-Hsia Chen, Asia University, Taiwan

Paper ID:245 Title: Vectorized Data Combination and Binary Search Oriented Reweight for CPU-GPU Based Real-time 3D Ball Tracking

Author: Ziwei Deng, Waseda University; Yilin Hou, Waseda University; Xina Cheng, Waseda University; Takeshi Ikenaga, Waseda University

Paper ID: 247 Title: Hot Topic Trend Prediction of Topic Based on Markov Chain and Dynamic Backtracking

Author: Feng Xu, Nanjing University of Aeronautics and Astronautics; Jue Liu, Nanjing Audit University; Ying He, Nanjing University of Aeronautics and Astronautics; Yating Hou, Nanjing University of Aeronautics and Astronautics

Paper ID:251 Title: A Low Energy Multi-hop Routing Protocol Based on Programming Tree for Large-scale WSN

Author: Feng Xu, Nanjing University of Aeronautics and Astronautics; Yating Hou, Nanjing University of Aeronautics and Astronautics; Guozhong Qian, Nanjing University of Aeronautics and Astronautics; Yunyu Yao, Nanjing University of Aeronautics and Astronautics

Paper ID:253 Title: Sparse Stochastic Online AUC Optimization for Imbalanced Streaming Data

Author: Min Yang, Wuhan University; Xufen Cai, Communication University of China; Ruimin Hu, Wuhan University; Long Ye, Communication University of China; Rong Zhu, Wuhan University

## Poster Area E

Paper ID:255 Title: Fast Circular Object Localization and Pose Estimation for Robotic Bin Picking

Author: Linyao Luo, Fudan University; Yanfei Luo, Fudan University; Hong Lu,

Fudan University ;Haowei Yuan<sup>3</sup>, Shanghai Electric Group CO., LTD. Central Academe; Xuehua Tang, Shanghai Electric Group CO., LTD. Central Academe; Wenqiang Zhang, Fudan University

Paper ID:266 Title: Traffic Congestion Level Prediction Based on Video Processing Technology

Author: Wenyu Xu, National University of Defense Technology; Guogui Yang, National University of Defense Technology; Fu Li, National University of Defense Technology ;Yuanhang Yang, National University of Defense Technology

Paper ID:269 Title: Local Temporal Coherence for Object-Aware Keypoint Selection in Video Sequences

Author: Songlin Du, Waseda University; Takeshi Ikenaga, Waseda University

Paper ID:271 Title: A Combined Feature Approach for Speaker Segmentation using Convolution Neural Network

Author: Jiang Zhong, Chongqing University; Pan Zhang, Chongqing University; Xue Li, Chongqing University, University of Queensland

Paper ID:272 Title: DDSH: Deep Distribution-Separating Hashing for Image Retrieval

Author: Junjie Chen, Hong Kong Baptist University; Anran Wang, Hong Kong Baptist University

Paper ID:274 Title: Coarse-to-Fine Multi-Camera Network Topology Estimation

Author: Chang Xing, Beihang University; Sichen Bai, Beihang University ;Yi Zhou, Beihang University; Zhong Zhou, Beihang University; Wei Wu, Beihang University

Paper ID:278 Title: An Adaptive Tuning Sparse Fast Fourier Transform

Author: Sheng Shi, Institute of Computing Technology, Chinese Academy of Sciences; Runkai Yang, Institute of Computing Technology, Chinese Academy of Sciences; Xinfeng Zhang, Nanyang Technological University; Haihang You, Institute of Computing Technology, Chinese Academy of Sciences; Dongrui Fan, Institute of Computing Technology, Chinese Academy of Sciences

Paper ID:279 Title: An Obstacle Detection Method Based on Binocular Stereovision

Author: Yihan Sun, University of Chinese Academy of Science; Libo Zhang, Institute of Software, University of Chinese Academy of Science; Tiejian Luo, University of Chinese Academy of Science; Yanjun Wu, Institute of Software, Chinese Academy of Sciences