

<b>Opening Ceremony</b>		<b>8:20-8:30</b>
<b>location</b>	Main Hall	
<b>Keynote1</b>		<b>8:30 – 9:30</b>
<b>location</b>	Main Hall	
<b>Chair</b>	Chong-Wah Ngo	
8:30 – 9:30	<b>AI, for a better world</b>	
<b>Best Paper Session</b>		<b>10:00-11:00</b>
<b>location</b>	Main Hall	
<b>Chair</b>	Wen-Huang Cheng	
10:00 - 10:15	<b>CodedVision: Towards Joint Image Understanding and Compression via End-to-End Learning</b> Qiu Shen; Juanjuan Cai; Linfeng Liu; Haojie Liu; Tong Chen; Long Ye; Zhan Ma	
10:15 - 10:30	<b>Random Angular Projection for Fast Nearest Subspace Search</b> Xianglong Liu; Binshuai Wang; Ke Xia; Kotagiri Ramamohanarao; Dacheng Tao	
10:30 - 10:45	<b>Image Denoising with Local Dense and Adaptive Global Residual Networks</b> Lulu Sun; Yongbing Zhang; Chenggang Yan; Xiangyang Ji; Xinhong Hao; Yongdong Zhang; and Qionghai Dai	
10:45 - 11:00	<b>Cross Diffusion on Multi-Hypergraph for Multi-Modal 3D Object Recognition</b> Zizhao Zhang; Haojie Lin; Junjie Zhu; Xibin Zhao; Yue Gao	
<b>OS1: Visual Captioning and Dialog</b>		<b>11:00-12:00</b>
<b>location</b>	Main Hall	
<b>Chair</b>	Liqiang Nie	
11:00-11:15	<b>Video Captioning Based on the Spatial-Temporal Saliency Tracing</b> Yuanen Zhou; Zhenzhen Hu; Xueliang Liu; Meng Wang	
11:15 - 11:30	<b>Multiple-Level Feature-Based Network for Image Captioning</b> Kaidi Zheng; Chen Zhu; Shaopeng Lu; Yonggang Liu	
11:30 – 11:45	<b>Collaborative Detection and Caption Network</b> Tianyi Wang; Jing Zhang; Zhengjun Zha	
11:45 - 12:00	<b>Visual Dialog with Multi-turn Attentional Memory Network</b> Dejiang Kong; Fei Wu	
<b>Keynote2</b>		<b>14:00 – 15:00</b>
<b>location</b>	Cuihai Hall	
<b>Chair</b>	Meng Wang	
14:000 – 15:00	<b>Learning to Appreciate: Transforming Multimedia Communications via Deep Video Analytics</b>	
<b>OS2: 3D system and algorithm</b>		<b>15:00 – 16:00</b>
<b>location</b>	Cuihai Hall	
<b>Chair</b>	Hanwang Zhang	
15:00 - 15:15	<b>An End-to-End Real-Time 3D System for Integral Photography Display</b> Shenghao Zhang; Zhenyu Wang; Mingtong Zhu; Ronggang Wang	
15:15 - 15:30	<b>Automatic 3D Garment Fitting based on Skeleton Driving</b> Haozhong Cai; Guangyuan Shi; Chengying Gao; Dong Wang	
15:30 -15:45	<b>Real-time RGBD reconstruction using Structural Constraint for Indoor AR</b> Chen Wang; Yue Qi	
15:45 -16:00	<b>DT-3DResNet-LSTM: An Architecture for Temporal Activity Recognition in Videos</b> Li Yao; Ying Qian	
<b>OS3: Video Processing and Analysis</b>		<b>15:00 – 16:00</b>
<b>location</b>	Hongfeng Hall	
<b>Chair</b>	Zhengjun Zha	
15:00 - 15:15	<b>Synthetic Aperture Based on Plenoptic Camera for Seeing through Occlusions</b> Heng Zhang; Xin Jin; Qionghai Dai	
15:15 - 15:30	<b>Reflectance Reference for Intra-Frame Coding of Surveillance Video</b> Dong Liu; Zhenxin Zhang; Fangdong Chen; Houqiang Li; Feng Wu	
15:30 -15:45	<b>Multimodal Dimensional and Continuous Emotion Recognition in Dyadic Video Interactions</b> Jinming Zhao; Shizhe Chen; Qin Jin	

15:45 - 16:00 **Adaptive Hierarchical Motion-Focused Model for Video Prediction**  
Min Tang; Wenmin Wang; Xiongtao Chen; Yifeng He

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**OS4: Feature Learning** **16:30 - 17:30**

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**location** Cuihai Hall

**Chair** Yugang Jiang

16:30 - 16:45 **Pairwise Cross Pattern: A Color-LBP Descriptor for Content-based Image Retrieval**  
Qiaohong Hao; Qinghe Feng; Ying Wei; Mateu Sbert; Wenhuan Lu; Qing Xu

16:45 - 17:00 **Robust Neighborhood Preserving Low-Rank Sparse CNN Features for Classification**  
Zemin Tang; Zhao Zhang; Xiaohu Ma; Jie Qin; Mingbo Zhao

17:00 - 17:15 **Robust Deep Gaussian Descriptor for Texture Recognition**  
Jiahua Wang; Jianxin Zhang; Qiule Sun; Bin Liu; Qiang Zhang

17:15 - 17:30 **A Novel Feature Fusion with Self-adaptive Weight Method Based on Deep Learning for Image Classification**  
Qijun Tian, Shouhong Wan, Peiquan Jin, Jian Xu, Chang Zou, Xingyue Li

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**OS5: Deep Neural Network Architecture and Applications** **16:30 - 17:30**

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**location** Hongfeng Hall

**Chair** Wei-Ta Chu

16:30 - 16:45 **Intra-view and Inter-view Attention for Multi-view Network Embedding**  
Yueyang Wang; Liang Hu; Yueting Zhuang; Fei Wu

16:45 - 17:00 **Residual Learning Dehazing Net**  
Yili Gu; Xinguang Xiang

17:00 - 17:15 **HDP-Net: Haze Density Prediction Network for Nighttime Dehazing**  
Yinghong Liao; Zhuo Su; Xiangguo Liang; Bin Qiu

17:15 - 17:30 **Deeper Spatial Pyramid Network with Refined Up-Sampling for Optical Flow Estimation**  
Zefeng Sun; Hanli Wang

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**OS6: Image Compressing** **17:30 - 18:30**

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**location** Cuihai Hall

**Chair** Jing Liu

17:30 - 17:45 **Parallelized contour based depth map coding in DIBR**  
Wenxin Yu; Yibo Fan; Minghui Wang; Gang He; Gang He; Zhuo Yang; Zhiqiang Zhang

17:45 - 18:00 **JND-Pano: Database for Just Noticeable Difference of JPEG Compressed Panoramic Images**  
Xiaohua Liu; Zihao Chen; Xu Wang; Jianmin Jiang; Sam Kowng

18:00 - 18:15 **A Reference Resource Based End-to-End Image Compression Scheme**  
Wenbin Yin; Xiaopeng Fan; Yunhui Shi; Wangmeng Zuo

18:15 - 18:30 **A Dual-Network based Super-Resolution for Compressed High Definition Video**  
Longtao Feng; Xinfeng Zhang; Xiang Zhang; Shanshe Wang; Ronggang Wang; Siwei Ma

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**OS7: Object Detection** **17:30 - 18:30**

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**location** Hongfeng Hall

**Chair** Yi Yu

17:30 - 17:45 **An Improved Algorithm for Saliency Object Detection Based on Manifold Ranking**  
Huiling Wang; Hao Wang; Jing Wang; Zhengmei Xu

17:45 - 18:00 **Tiny Surface Defects on Small Ring Parts using Normal Maps**  
Yang Zhang; Jia Song; Huiming Zhang; Jingwu He; Yanwen Guo

18:00 - 18:15 **Conditional Feature Coupling Network for Multi-Persons Clothing Parsing**  
Jiaming Guo; Zhuo Su; Xianghui Luo; Gengwei Zhang; Xiwen Liang

18:15 - 18:30 **Pedestrian Detection with a Directly-cascaded Deconvolution-Convolution Structure**  
Zhiming Chen; Xintong Han; Weiyao Lin; Mingming Cheng; Guangcan Liu; Hongkai Xiong

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**Poster1** **14:00 - 16:00**

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**location** Main Hall

**Chair** Yun Tie

Enhancing Low-Light Images with JPEG Artifact based on Image Decomposition

Depth Estimation from Monocular Images Using Dilated Convolution and Uncertainty Learning

Enhancing Feature Correlation for Bi-modal Group Emotion Recognition

Frame Rate Conversion Based High Efficient Compression Method for Video Satellite

Spectral-spatial Hyperspectral Image Classification via Adaptive Total Variation Filtering  
Convolutional Neural Network based Inter-frame Enhancement for 360-degree Video Streaming  
Robust and Index-Compatible Deep Hashing for Accurate and Fast Image Retrieval  
Self-supervised GAN for Image Generation by Correlating Image Channels  
Deformable Point Cloud Recognition using Intrinsic Function and Deep Learning  
Feature Synthesization for Real-Time Pedestrian Detection in Urban Environment  
Enhancing Person Retrieval with Joint Person Detection, Attribute Learning, and Identification  
End-To-End Learning For Action Quality Assessment  
CGANs Based User Preferred Photorealistic Re-stylization of Social image  
Cross-Modal Event Retrieval: A Dataset and a Baseline using Deep Semantic Learning  
Retinal Vessel Segmentation via Multiscaled Deep-Guidance  
Image Synthesis with Aesthetics-Aware Generative Adversarial Network  
Hyperspectral Image Classification Using Nonnegative Sparse Spectral Representation and Spatial Regularization  
Adaptive Aggregation Network for Face Hallucination  
Multi-Decoder Based Co-Attention for Image Captioning  
Simultaneous Occlusion Handling and Optical Flow Estimation  
Handwritten Chinese Character Recognition Based on Domain-Specific Knowledge  
Attention to Refine through Multi Scales for Semantic Segmentation  
Frame Segmentation Networks for Temporal Action Localization  
Stereo Matching based on Density Segmentation and Non-Local Cost Aggregation  
Single Image Super Resolution Using Local and Non-local Priors  
Plenoptic Image Compression via Simplified Subaperture Projection  
Gaze aware deep learning model for video summarization  
Three-stream Action Tubelet Detector for Spatiotemporal Action Detection in Videos  
Multi-person / group interactive video generation  
Image Denoising Based on Non-Parametric ADMM Algorithm  
Satellite Image Scene Classification via ConvNet with Context Aggregation  
VAL: Visual-attention Action Localizer  
Incremental Nonnegative Matrix Factorization with Sparseness Constraint for Image Representation  
A Data-Driven No-Reference Image Quality Assessment via Deep Convolutional Neural Networks  
An Asian Face Dataset and How Race Influences Face Recognition  
Towards Stereo Matching Algorithm Based on Multi-matching Primitive Fusion  
An Effective Image Detection Algorithm for USM Sharpening Based on Pixel-pair Histogram  
Skeletal Bone Age Assessment Based on Deep Convolutional Neural Networks  
Panoramic Image Saliency Detection by Fusing Visual Frequency Feature and Viewing Behavior Pattern  
Coupled Learning for Image Generation and Latent Representation Inference using MMD  
Enhanced Discriminative Generative Adversarial Network for Face Super-Resolution  
Image splicing detection based on the Q-Markov features  
Snapshot Multiplexed Imaging Based on Compressive Sensing  
Partially Annotated Gastric Pathological Image Classification  
Facial Expression Recognition Based on Local Double Binary Mapped Pattern  
Pixel-copy Prediction Based Lossless Reference Frame Compression  
Robust underwater fish classification based on data augmentation by adding noises in random local regions  
Study On User Experience Of Panoramic Images On Different Immersive Devices  
Environmental Sound Classification Based on Multi-temporal Resolution Convolutional Neural Network  
Combining with Multi-level Features  
Discriminative dictionary learning based on sample diversity for face recognition

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**Poster2**

**16:30 - 18:30**

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**location** Main Hall

**Chair** Xiao Sun

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Spatial Attention Network for Head Detection  
Arbitrary Perspective Crowd Counting via Multi Convolutional Kernels  
3D Shape Co-segmentation by Combining Sparse Representation with Extreme Learning Machine  
RS-MSSF Frame: Remote Sensing Image Classification Based on Extraction and Fusion of Multiple Spectral-Spatial Features  
Hierarchical Image Segmentation based on Multi-Feature Fusion and Graph Cut Optimization

A sound image reproduction model based on personalized weight vectors  
Reconstruction of Multi-view Video Based on GAN  
Contextual Attention Model for Social Recommendation  
Cracked Tongue Recognition Based on Deep Features and Multiple-instance SVM  
Multitask Learning for Chinese Named Entity Recognition  
Sparse-Region Net: Local-Enhanced Facial Depthmap Reconstruction from a Single Face Image  
Entropy based Boundary-Eliminated Pseudo-Inverse Linear Discriminant for Speech Emotion Recognition  
AdvRefactor: A Resampling-Based Defense against Adversarial Attacks  
An Improved C-COT Based Visual Tracking Scheme to Weighted Fusion of Diverse Features  
Focal Liver Lesion Classification Based on Tensor Sparse Representations of Multi-Phase CT Images  
Joint Learning of LSTMs-CNN and Prototype for Micro-video Venue Classification  
Spatial Pixels Selection and Inter-frame Combined Likelihood Based Observation for 60fps 3D Tracking of Twelve Volleyball Players on GPU  
An Interactive Light Field Video System with User-Dependent View Selection and Coding Scheme  
Deep residual net based compact feature representation for image retrieval  
Sea Ice Change Detection from SAR Images Based on Canonical Correlation Analysis and Contractive Autoencode  
Pedestrian Attributes Recognition in Surveillance Scenarios with Hierarchical Multi-task CNN Models  
Re-ranking Person Re-identification with Forward and Reverse Sorting Constraints  
Content-based Co-Factorization Machines: Modeling User Decisions in Event-based Social Networks  
Image-into-Image Steganography Using Deep Convolutional Network  
Deep Forest with Local Experts based on ELM for Pedestrian Detection  
MFDCNN: A Multimodal Fusion DCNN Framework for Object Detection and Segmentation  
Mixup-Based Acoustic Scene Classification Using Multi-Channel Convolutional Neural Network  
Multimodal Fusion for Traditional Chinese Painting Generation  
Optimal Feature Selection for Saliency Seed Propagation in Low Contrast Images  
New Fusion based Enhancement for Text Detection in Night Video Footage  
Deformable feature pyramid network for ship recognition  
Learning Hierarchical Context for Action Recognition in Still Images  
iMakeup: Makeup Instructional Video Dataset for Fine-grained Dense Video Captioning  
Embedded Temporal Visualization of Collaboration Networks  
Particle Swarm Programming-Based Interactive Content-Based Image Retrieval  
Video clip growth: A general algorithm for multi-view video summarization  
Cross-media retrieval via Deep Semantic Canonical Correlation Analysis and Logistic Regression  
3D Global Trajectory and Multi-view Local Motion Combined Player Action Recognition in Volleyball Analysis  
Underwater Image Enhancement By the Combination of Dehazing and Color Correction  
A Novel No-Reference QoE Assessment Model for Frame Freezing of Mobile Video  
Saliency Detection based on Deep Learning and Graph Cut  
Rethinking Fusion Baselines for Multi-Modal Human Action Recognition  
A DCT-JND Profile for Disorderly Concealment Effect  
Breast Ultrasound Image Classification and Segmentation Using Convolutional Neural Networks  
Intra-Image Region Context for Image Captioning  
Viewpoint Quality Evaluation for Augmented Virtual Environment  
A Flower Classification Framework based on Ensemble of CNNs  
Image Translation between High-resolution Remote Sensing Optical and SAR Data using Conditional GAN  
A combined strategy of hand tracking for desktop VR  
Super-Resolution of Text Image Based on Conditional Generative Adversarial Network

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