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New Results in Free-Viewpoint Television Systems for Horizontal Virtual Navigation

*Marek Domański, Maciej Bartkowiak, Adrian Dziembowski, Tomasz Grajek, Adam Grzelka, Adam Łuczak, Dawid Mieloch, Jarosław Samelak, Olgierd Stankiewicz, Jakub Stankowski, Krzysztof Wegner
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Efficient MRF-based Disocclusion Inpainting in Multiview Video

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Online Video Tracking Using Collaborative Convolutional Networks

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Factors Affecting User Preference for Mobile Video Quality

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Decoder Energy-Aware Intra-Coded HEVC Bit Stream Generation

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Robust Low Rank Dynamic Mode Decomposition for Compressed Domain Crowd and Traffic Flow Analysis

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Depth Augmented Stereo Panorama for Cinematic Virtual Reality with Head-Motion Parallax

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Depth-aware Layered Edge for Object Proposal

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Discovering Latent Affective Dynamics among Individuals in Online Mental Health-related Communities

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Boosted Local Classifiers for Visual Tracking

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Shape-Guided Segmentation for Fine-Grained Visual Categorization

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Video Saliency Prediction with Optimized Optical Flow and Gravity Center Bias

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Driver Confusion Status Detection Using Recurrent Neural Networks

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Attribute-Based Multi-Dimension Scalable Access Control For Social Media Sharing

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Automatic Suggestion of Presentation Image for Storytelling

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Distance Learning by Treating Negative Samples Differently and Exploiting Impostors with Symmetric Triplet Constraint for Person Re-identification

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Chinese Sign Language Recognition with Adaptive HMM

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Example-Based Visual Object Counting with a Sparsity Constraint

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Robust Image Matching via Feature Guided Gaussian Mixture Model

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Improve HEVC Load-balancing for Network Streaming using Adaptive Tile Boundary

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*Chun-Han Yao, Chia-Yang Chang, Shao-Yi Chien
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*Hua-Tsung Chen, Devi Eddy, Ray-Lin Chen, Chien-Li Chou
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*Min-Jen Tsai, Chien-Lun Hsu, Jin-Sheng Yin, Imam Yuadi
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*Chih-Chen Kao, Yu-Tsung Miao, Wei-Chung Hsu
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On-premise Signs Detection and Recognition Using Fully Convolutional Networks

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Solar Irradiance Now-Casting with Ramp-Down Event Prediction via Enhanced Cloud Detection and Tracking

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Occlusion Pattern-Based Dictionary for Robust Face Recognition

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Hand Gesture Recognition based on Canonical Formed Superpixel Earth Mover's Distance

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Multimedia Transmission over Device-to-Device Wireless Links

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Learning Deep Classifiers with Deep Features

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Deep Conditional Neural Network for Image Segmentation

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SATD-based Joint Decision Algorithm for Parallelized Intra Prediction Encoder in H.265/HEVC

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Robust Latent Poisson Deconvolution from Multiple Imperfect Features for Web Topic Detection

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Unsupervised Visual Domain Adaptation via Dictionary Evolution

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Efficient Plenoptic Imaging Representation: Why Do We Need It?

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Xiaobo Jiang, Rendong Ying, Fei Wen, Sumxin Jiang, Peilin Liu

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Codec Independent Region of Interest Video Coding using a Joint Pre- and Postprocessing Framework

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Robust Online Face Tracking-by-Detection

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Automatic Image Dataset Construction with Multiple Textual Metadata

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A Perceptually Motivated Approach via Sparse and Low-rank Model for Speech Enhancement

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Person Re-identification via Rich Color-gradient Feature

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*Kaiping Xu, Zhen Qin, Guolong Wang
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Video Saliency Prediction with Optimized Optical Flow and Gravity Center Blas

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*Luchao Tian, Guyue Zhang, Mingchen Li, Jun Liu, Yan Qiu Chen
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*Haishu Xianyu, Mingxing Xu, Zhiyong Wu, Lianhong Cai
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Robust Online Visual Tracking via a Temporal Ensemble Framework

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Phonetic Posteriorgrams for Many-to-One Voice Conversion without Parallel Data Training

*Lifa Sun, Kun Li, Hao Wang, Shiyin Kang, Helen Meng
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Depth Augmented Stereo Panorama for Cinematic Virtual Reality with Head-Motion Parallax

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A Soundtrack Generation System to Synchronize the Climax of a Video Clip with Music

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Approximate Convex Decomposition for 2D Shapes based on Visibility Range

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A Novel Obstacle Detection Method based on Distortion of Laser Pattern

Zichao Guo, Hong Liu, Yueliang Qian, Xiangdong Wang

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Kernelized Learning in Deep Scattering Convolution Networks

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Adaptive Affinity Matrix for Unsupervised Metric Learning

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Crowd Video Retrieval via Deep Attribute-Embedding Graph Ranking

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Houqiang Li

Chinese Sign Language Recognition with Adaptive HMM

Jihai Zhang, Wengang Zhou, Chao Xie, Junfu Pu, Houqiang Li

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Solar Irradiance Now-Casting with Ramp-Down Event Prediction via Enhanced Cloud Detection and Tracking

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Peng Yao, Hua Zhang, Yanbing Xue, Mian Zhou, Guangping Xu, Zan Gao

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Speed-adaptive Street View Image Generation Using Driving Video Recorder

Hua-Tsung Chen, Devi Eddy, Ray-Lin Chen, Chien-Li Chou

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Large-Scale Vehicle Re-Identification in Urban Surveillance Videos

Xinchen Liu, Wu Liu, Huadong Ma, Huiyuan Fu

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Discovering Affective Regions in Deep Convolutional Neural Networks for Visual Sentiment Prediction

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Huijun Di

Video Object Segmentation Aggregation

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On-premise Signs Detection and Recognition Using Fully Convolutional Networks

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Study on the Field Test Result of Mobile MMT Trial Service over LTE Network at Open Dense Area, Subway and High Speed Train

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Imam Yuadi

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Content-Adaptive Focus Configuration for Near-Eye Multi-Focal Displays

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New Results in Free-Viewpoint Television Systems for Horizontal Virtual Navigation

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Depth Augmented Stereo Panorama for Cinematic Virtual Reality with Head-Motion Parallax

Jayant Thatte, Jean-Baptiste Boin, Haricharan Lakshman, Bernd Girod
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Jennifer Rasch

Quality Assessment of Image Patches Distorted by Image Compression Using Crowdsourcing

Sebastian Bosse¹, Mischa Siekmann¹, Jennifer Rasch¹, Thomas Wiegand^{1,2}, Wojciech Samek¹

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Salient object detection for RGB-D image via saliency evolution

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Depth-aware Layered Edge for Object Proposal

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Inferring Users' Emotions for Human-Mobile Voice Dialogue Applications

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Jiajie Han

Geometry-aware Metric Learning for Similar Face Recognition

Nanhai Zhang, Jiajie Han, Jiani Hu, Weihong Deng

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Jialin Song

Extracting and Describing Liver Capsule Contour in High-frequency Ultrasound Image for Early HBV Cirrhosis Diagnosis

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Multi-label Active Learning for Image Classification with Asymmetrical Conditional Dependence

Jian Wu¹, Shiquan Zhao¹, Victor S. Sheng², PengPeng Zhao¹, Zhiming Cui¹

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Unsupervised Visual Domain Adaptation via Dictionary Evolution

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Explicit Modeling on Depth-Color Inconsistency for Color-Guided Depth Up-Sampling

Yifan Zuo^{1,2}, Qiang Wu², Jian Zhang², Ping An¹

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Automatic Image Dataset Construction with Multiple Textual Metadata

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Occlusion Pattern-Based Dictionary for Robust Face Recognition

*Cho-Ying Wu, Jian-Jiun Ding
National Taiwan University*

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Bayesian Relevance Feedback Based Chinese Calligraphy Character Synthesis

*Xueying Du, Jiangqin Wu, Yang Xia
Zhejiang University*

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Recurrent Convolutional Neural Network for Video Classification

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Blind Quality Assessment of Compressed Images via Pseudo Structural Similarity

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DBLSTM-Based Multi-Scale Fusion for Dynamic Emotion Prediction in Music

*Xinxing Li, Jiashen Tian, Mingxing Xu, Yishuang Ning, Lianhong Cai
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Spherical Superpixel Segmentation

*Qiang Zhao, Liang Wan, Jiawan Zhang
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Visual Data Deblocking Using Structural Layer Priors

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Effective HEVC Intra Coding Unit Size Decision based on Online Progressive Bayesian Classification

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Robust Image Matching via Feature Guided Gaussian Mixture Model

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A Perceptually Motivated Approach via Sparse and Low-rank Model for Speech Enhancement

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Joint Optimization of Audible Noise Suppression and Deep Neural Networks for Single-Channel Speech Enhancement

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Sparse Two-Dimensional Singular Value Decomposition

Junhui Hou, Jie Chen, Lap-Pui Chau, Ying He

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Distortion Recognition for Image Quality Assessment with Convolutional Neural Network

Hanli Wang, Lingxuan Zuo, Jie Fu

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Learning Deep Classifiers with Deep Features

Jie Lei¹, Xinhui Song¹, Li Sun¹, Mingli Song¹, Na Li², Chun Chen¹

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A General PID-based Rate Adaptation Approach for TCP-based Live Streaming over Mobile Networks

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Hand Gesture Recognition based on Canonical Formed Superpixel Earth Mover's Distance

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Chinese Sign Language Recognition with Adaptive HMM

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3D Video Super-Resolution using Fully Convolutional Neural Networks

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Example-Based Visual Object Counting with a Sparsity Constraint

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Adaptive Multi-Dimension Sparsity based Coefficient Estimation for Compression Artifact Reduction

Jing Mu¹, Xinfeng Zhang², Ruiqin Xiong¹, Siwei Ma¹, Wen Gao¹

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Region Similarity Arrangement for Image Retrieval

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Jingyi Hou, Xinxiao Wu, Feiwu Yu, Yunde Jia
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Person Re-identification via Rich Color-gradient Feature

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Boosted Local Classifiers for Visual Tracking

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Nonlinear Metric Learning for Visual Tracking

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Collaborative Multi-View Metric Learning for Visual Classification

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Digital Holography: Benchmarking Coding Standards and Representation Formats

José Peixeiro, Catarina Brites, Joao Ascenso, Fernando Pereira
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Multi-view Distributed Coding and Selection of Local Binary Features

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Driver Confusion Status Detection Using Recurrent Neural Networks

*Chiori HORI¹, Shinji Watanabe¹, Takaaki HORI¹, Bret Harsham¹, John Hershey¹, Yusuke Koji²,
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Shape-Guided Segmentation for Fine-Grained Visual Categorization

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Reliably Detecting Humans in Crowded and Dynamic Environments Using RGB-D Camera

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Cross-modal Hashing through Ranking Subspace Learning

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Robust Latent Poisson Deconvolution from Multiple Imperfect Features for Web Topic Detection

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Visual Attention Analysis on Stereoscopic Images for Subjective Discomfort Evaluation

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High-order Directional Features and Sparse Representation based Classification for In-air Handwritten Chinese Character Recognition

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Local- and Holistic- Structure Preserving Image Super Resolution via Deep Joint Component Learning

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Phonetic Posteriorgrams for Many-to-One Voice Conversion without Parallel Data Training

Lifa Sun, Kun Li, Hao Wang, Shiyin Kang, Helen Meng

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Subjective-Quality-Optimized Complexity Control for HEVC Decoding

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Compact and Robust Video Fingerprinting Using Sparse Represented Features

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Learning Deep Classifiers with Deep Features

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Local- and Holistic- Structure Preserving Image Super Resolution via Deep Joint Component Learning

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Robust Latent Poisson Deconvolution from Multiple Imperfect Features for Web Topic Detection

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Spherical Superpixel Segmentation

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Lianhong Cai

DBLSTM-Based Multi-Scale Fusion for Dynamic Emotion Prediction in Music

*Xinxing Li, Jiashen Tian, Mingxing Xu, Yishuang Ning, Lianhong Cai
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Heterogeneity-Entropy based Unsupervised Feature Learning for Personality Prediction with Cross-Media Data

*Haishu Xianyu, Mingxing Xu, Zhiyong Wu, Lianhong Cai
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Phonetic Posteriorgrams for Many-to-One Voice Conversion without Parallel Data Training

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Person Re-identification via Rich Color-gradient Feature

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Improving the Similarity Estimation via Score Distribution

Lixin Liao¹, Shikui Wei¹, Yao Zhao¹, Guanghua Gu²

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Lizhuang Ma

Robust Feature Encoding for Age-invariant Face Recognition

Xiaonan Hou, Shouhong Ding, Lizhuang Ma

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Effective HEVC Intra Coding Unit Size Decision based on Online Progressive Bayesian Classification

Jiawei Chen, Lu Yu

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Full-Reference Perceptual Quality Assessment for Stereoscopic Images Based on Primary Visual Processing Mechanism

Yu Cao, Wenhao Hong, Lu Yu

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Binocular Rivalry Detection in Natural Image Pairs

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Reliably Detecting Humans in Crowded and Dynamic Environments Using RGB-D Camera

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New Results in Free-Viewpoint Television Systems for Horizontal Virtual Navigation

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Subjective-Quality-Optimized Complexity Control for HEVC Decoding

Ren Yang, Mai Xu, Lai Jiang, Zulin Wang

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Lossless Depth Map Coding Using Binary Tree Based Decomposition and Context-Based Arithmetic Coding

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Memory-based Object Detection in Surveillance Scenes

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Codec Independent Region of Interest Video Coding using a Joint Pre- and Postprocessing Framework

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Masataka Goto

A Soundtrack Generation System to Synchronize the Climax of a Video Clip with Music

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A Pair Hidden Markov Support Vector Machine for Alignment of Human Actions

*Zhen Wang, Massimo Piccardi
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Matthew Cooper

Using Business-Aware Latent Topics for Image Captioning in Social Media

*Yan-Ying Chen, Francine Chen, Matthew Cooper, Dhiraj Joshi
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Meha Hachani

Segmentation of 3D Articulated Meshes Using Shape Diameter Function and Curvature Information

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Joint Optimization of Audible Noise Suppression and Deep Neural Networks for Single-Channel Speech Enhancement

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A Graph Based Multimodal Geospatial Interpolation Framework

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Iterative Color-Depth MST Cost Aggregation for Stereo Matching

Peng Yao, Hua Zhang, Yanbing Xue, Mian Zhou, Guangping Xu, Zan Gao

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Graph-Based Web Video Search Reranking Through Consistency Analysis Using Spectral Clustering

Soh Yoshida, Takahiro Ogawa, Miki Haseyama

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Approximate Convex Decomposition for 2D Shapes based on Visibility Range

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Person Re-identification via Rich Color-gradient Feature

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Reducing Manual Labeling in Singing Voice Detection: An Active Learning Approach

Wei Li, Xiangyi Feng, Min Xue

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On-premise Signs Detection and Recognition Using Fully Convolutional Networks

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Digital Forensics for Printed Character Source Identification

Min-Jen Tsai, Chien-Lun Hsu, Jin-Sheng Yin, Imam Yuadi

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A Bayesian Hierarchical Appearance Model for Robust Object Tracking

Raed Almomani, Ming Dong, Dongxiao Zhu

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Shape-Guided Segmentation for Fine-Grained Visual Categorization

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Discovering Affective Regions in Deep Convolutional Neural Networks for Visual Sentiment Prediction

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Deep Learning Based Supervised Hashing for Efficient Image Retrieval

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Quality Assessment of Image Patches Distorted by Image Compression Using Crowdsourcing

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Robust Low Rank Dynamic Mode Decomposition for Compressed Domain Crowd and Traffic Flow Analysis

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A Novel Trigonometric Energy Functional for Image Segmentation in The Presence of Intensity In-Homogeneity

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Mustafa Gursoy

Multimedia Transmission over Device-to-Device Wireless Links

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Client-Side Cache Management for Scalable and Interactive Video Streaming

Kamal Nayfeh, Nabil Sarhan

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Compact and Robust Video Fingerprinting Using Sparse Represented Features

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Nanghai Zhang, Jiajie Han, Jiani Hu, Weihong Deng

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Antonio Tejero de Pablos, Yuta Nakashima, Tomokazu Sato, Naokazu Yokoya

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Content-Adaptive Focus Configuration for Near-Eye Multi-Focal Displays

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Multi-view Distributed Coding and Selection of Local Binary Features

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SATD-based Joint Decision Algorithm for Parallelized Intra Prediction Encoder in H.265/HEVC

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Egocentric Activity Recognition by Leveraging Multiple Mid-level Representations

Peng-Ju Hsieh, Yen-Liang Lin, Yu-Hsiu Chen, Winston Hsu

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Multi-label Active Learning for Image Classification with Asymmetrical Conditional Dependence

Jian Wu¹, Shiquan Zhao¹, Victor S. Sheng², PengPeng Zhao¹, Zhiming Cui¹

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Efficient MRF-based Disocclusion Inpainting in Multiview Video

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Explicit Modeling on Depth-Color Inconsistency for Color-Guided Depth Up-Sampling

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Crowd Video Retrieval via Deep Attribute-Embedding Graph Ranking

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*Benoit Massé, Sil`eye Ba, Radu Horaud
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Speed-adaptive Street View Image Generation Using Driving Video Recorder

*Hua-Tsung Chen, Devi Eddy, Ray-Lin Chen, Chien-Li Chou
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Distance Learning by Treating Negative Samples Differently and Exploiting Impostors with Symmetric Triplet Constraint for Person Re-identification

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Multichannel Reduction Based on Sound Field Within Two Ears

*Dengshi Li, Ruimin Hu, Xiaochen Wang, Guo Wu, Zheng Zhang, Weiping Tu
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Boosted Local Classifiers for Visual Tracking

Weijian Ruan¹, Jun Chen¹, Jinqiao Wang², Bo Luo¹, Wenjun Huang¹, Ruimin Hu¹

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Adaptive Multi-Dimension Sparsity based Coefficient Estimation for Compression Artifact Reduction

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Robust Online Face Tracking-by-Detection

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Visual Attention Analysis on Stereoscopic Images for Subjective Discomfort Evaluation

Sewoong Ahn, Junghwan Kim, Haksob Kim, Sanghoon Lee

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Quality Assessment of Image Patches Distorted by Image Compression Using Crowdsourcing

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Patch-Based Face Hallucination with Multitask Deep Neural Network

Wei-Jen Ko, Shao-Yi Chien

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Example-based Video Color Transfer

Chun-Han Yao, Chia-Yang Chang, Shao-Yi Chien

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A General PID-based Rate Adaptation Approach for TCP-based Live Streaming over Mobile Networks

Jiexi Wang¹, Shengbin Meng¹, Jun Sun^{1,2}, Zongming Guo^{1,2}

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Generalized Residual Vector Quantization for Large Scale Data

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A Soundtrack Generation System to Synchronize the Climax of a Video Clip with Music

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Shape-Optimizing Hybrid Warping for Image Stitching

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Recognizing Heterogeneous Cross-Domain Data via Generalized Joint Distribution Adaptation

*Yuan-Ting Hsieh¹, Shih-Yen Tao¹, Yao-Hung Hubert Tsai², Yi-Ren Yeh³, Yu-Chiang Frank Wang²
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Exploring Auditory Network Composition during Free Listening to Audio Excerpts via Group-Wise Sparse Representation

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*Shuang Qiu, Shikui Wei, Yao Zhao
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Improving the Similarity Estimation via Score Distribution

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Driver Confusion Status Detection Using Recurrent Neural Networks

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3D Tracking Targets via Kinematic Model Weighted Particle Filter

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Benoit Massé, Sil`eye Ba, Radu Horaud

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Unsupervised Visual Domain Adaptation via Dictionary Evolution

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3D Video Super-Resolution using Fully Convolutional Neural Networks

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Inferring Users' Emotions for Human-Mobile Voice Dialogue Applications

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Quality Assessment of Image Patches Distorted by Image Compression Using Crowdsourcing
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Video Object Segmentation Aggregation
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Human Action Recognition-Based Video Summarization for RGB-D Personal Sports Video

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A Soundtrack Generation System to Synchronize the Climax of a Video Clip with Music

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Jingfan Guo, Tongwei Ren, Jia Bei

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Wenjing Geng, Dapeng Du, Tongwei Ren, Gangshan Wu

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Robust Online Face Tracking-by-Detection

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Structure-Regularized Compressive Tracking

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A Perceptually Motivated Approach via Sparse and Low-rank Model for Speech Enhancement

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Robust Latent Poisson Deconvolution from Multiple Imperfect Features for Web Topic Detection

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Boosted Local Classifiers for Visual Tracking

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Multichannel Reduction Based on Sound Field Within Two Ears

*Dengshi Li, Ruimin Hu, Xiaochen Wang, Guo Wu, Zheng Zhang, Weiping Tu
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High-order Directional Features and Sparse Representation based Classification for In-air Handwritten Chinese Character Recognition

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Distance Learning by Treating Negative Samples Differently and Exploiting Impostors with Symmetric Triplet Constraint for Person Re-identification

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Approximate Convex Decomposition for 2D Shapes based on Visibility Range

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Distance Learning by Treating Negative Samples Differently and Exploiting Impostors with Symmetric Triplet Constraint for Person Re-identification

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Unsupervised Visual Domain Adaptation via Dictionary Evolution

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Cost-Sensitive Sparse Linear Regression for Crowd Counting with Imbalanced Training Data

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Robust Face Image Alignment Using Structural Priors

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Blind Quality Assessment of Compressed Images via Pseudo Structural Similarity

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Inferring Users' Emotions for Human-Mobile Voice Dialogue Applications

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POM: Power Efficient Multi-view Video Streaming over Multi-antenna Wireless System

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A Superpixel Segmentation Algorithm based on Differential Evolution

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Learning Deep Classifiers with Deep Features

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Deep Conditional Neural Network for Image Segmentation

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Extracting and Describing Liver Capsule Contour in High-frequency Ultrasound Image for Early HBV Cirrhosis Diagnosis

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3D Tracking Targets via Kinematic Model Weighted Particle Filter

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Reliably Detecting Humans in Crowded and Dynamic Environments Using RGB-D Camera

Luchao Tian, Guyue Zhang, Mingchen Li, Jun Liu, Yan Qiu Chen

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Learning Kinematic Model of Targets in Videos from Fixed Cameras

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Yan-Ying Chen

Using Business-Aware Latent Topics for Image Captioning in Social Media

*Yan-Ying Chen, Francine Chen, Matthew Cooper, Dhiraj Joshi
FX Palo Alto Laboratory*

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Iterative Color-Depth MST Cost Aggregation for Stereo Matching

*Peng Yao, Hua Zhang, Yanbing Xue, Mian Zhou, Guangping Xu, Zan Gao
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Yanchun Xie

3D Video Super-Resolution using Fully Convolutional Neural Networks

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Bayesian Relevance Feedback Based Chinese Calligraphy Character Synthesis

*Xueying Du, Jiangqin Wu, Yang Xia
Zhejiang University*

Yanhao Zhang

Crowd Video Retrieval via Deep Attribute-Embedding Graph Ranking

*Yanhao Zhang¹, Lei Qin², Sicheng Zhao¹, Rongrong Ji³, Xiusheng Lu¹, Hongxun Yao¹, Qingming Huang^{1,2},
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Video Object Segmentation Aggregation

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Recognizing Human Actions from Low-resolution Videos by Region-based Mixture Models

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A Comparative Evaluation: Different Methods for Simplifying the Deep Compositional Features

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Improving the Similarity Estimation via Score Distribution

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Yao-Hung Hubert Tsai

Recognizing Heterogeneous Cross-Domain Data via Generalized Joint Distribution Adaptation

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SATD-based Joint Decision Algorithm for Parallelized Intra Prediction Encoder in H.265/HEVC

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Adaptive Affinity Matrix for Unsupervised Metric Learning

Yaoyi Li, Junxuan Chen, Yiru Zhao, Hongtao Lu
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Online Self-Organizing Hashing

Junxuan Chen, Yaoyi Li, Hongtao Lu
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Nonlinear Metric Learning for Visual Tracking

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Collaborative Multi-View Metric Learning for Visual Classification

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Binocular Rivalry Detection in Natural Image Pairs

Yapeng Xue, Wenhao Hong, Yu Cao, Lu Yu

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Automatic Image Dataset Construction with Multiple Textual Metadata

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Egocentric Activity Recognition by Leveraging Multiple Mid-level Representations

Peng-Ju Hsieh, Yen-Liang Lin, Yu-Hsiu Chen, Winston Hsu

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Learning-Based Quality Assessment of Retargeted Stereoscopic Images

Yi Liu, Lifeng Sun, Shiqiang Yang

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Example-Based Visual Object Counting with a Sparsity Constraint

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Cost-Sensitive Sparse Linear Regression for Crowd Counting with Imbalanced Training Data

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A Superpixel Segmentation Algorithm based on Differential Evolution

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Yifan Zuo

Explicit Modeling on Depth-Color Inconsistency for Color-Guided Depth Up-Sampling

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Sparse Two-Dimensional Singular Value Decomposition

Junhui Hou, Jie Chen, Lap-Pui Chau, Ying He

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A Robust Automatic Object Segmentation Method for 3D Printing

Tzu-Kuei Huang, Ying-Hsuang Wang, Ta-Kai Lin, Yung-Yu Chuang

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BCA: Bi-symmetric Component Analysis for Temporal Symmetry in Human Actions

Chenyang Zhang, Yingli Tian

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Adaptive Affinity Matrix for Unsupervised Metric Learning

Yaoyi Li, Junxuan Chen, Yiru Zhao, Hongtao Lu

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DBLSTM-Based Multi-Scale Fusion for Dynamic Emotion Prediction in Music

Xinxing Li, Jiashen Tian, Mingxing Xu, Yishuang Ning, Lianhong Cai
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Inferring Users' Emotions for Human-Mobile Voice Dialogue Applications

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Driver Confusion Status Detection Using Recurrent Neural Networks

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On-premise Signs Detection and Recognition Using Fully Convolutional Networks

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Parameterized Reconstruction Based Fourier Ptychography

Weixin Jiang, Yongbing Zhang, Qionghai Dai
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Region Similarity Arrangement for Image Retrieval

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Efficient Structure-preserving Superpixel Segmentation Based on Minimum Spanning Tree

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Full-Reference Perceptual Quality Assessment for Stereoscopic Images Based on Primary Visual Processing Mechanism

Yu Cao, Wenhao Hong, Lu Yu
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Binocular Rivalry Detection in Natural Image Pairs

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Automatic Suggestion of Presentation Image for Storytelling

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With One Look: 3D Face Shape Estimation from a Single Snapshot

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Egocentric Activity Recognition by Leveraging Multiple Mid-level Representations

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A Pipeline-Based Runtime Technique for Improving Ray-Tracing on HSA-Compliant Systems

Chih-Chen Kao, Yu-Tsung Miao, Wei-Chung Hsu
National Taiwan University

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Improve HEVC Load-balancing for Network Streaming using Adaptive Tile Boundary

Chia-Hsin Chan, Yu-Xiong Su, Wen-Jiin Tsai
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Robust Image Matching via Feature Guided Gaussian Mixture Model

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POM: Power Efficient Multi-view Video Streaming over Multi-antenna Wireless System

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Kernelized Learning in Deep Scattering Convolution Networks

Yuehan Xiong, Can Xu, Hongkai Xiong

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A Novel Obstacle Detection Method based on Distortion of Laser Pattern

Zichao Guo, Hong Liu, Yueliang Qian, Xiangdong Wang

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Local- and Holistic- Structure Preserving Image Super Resolution via Deep Joint Component Learning

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Blind Quality Assessment of Compressed Images via Pseudo Structural Similarity

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No-reference Image Quality Assessment Based on High Order Derivatives

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3D Video Super-Resolution using Fully Convolutional Neural Networks

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A Semi-Automatic Brain Tumor Segmentation Algorithm

Xiaoli Zhang, Xiongfei Li, Hongpeng Li, Yuncong Feng

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Multimedia Event Detection via Deep Spatial-Temporal Neural Networks

Jingyi Hou, Xinxiao Wu, Feiwu Yu, Yunde Jia

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Human Action Recognition-Based Video Summarization for RGB-D Personal Sports Video

Antonio Tejero de Pablos, Yuta Nakashima, Tomokazu Sato, Naokazu Yokoya

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Iterative Color-Depth MST Cost Aggregation for Stereo Matching

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High-order Directional Features and Sparse Representation based Classification for In-air Handwritten Chinese Character Recognition

*Xiwen Qu, Weiqiang Wang, Ke Lu, Zhangjian Ji
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A Novel Trigonometric Energy Functional for Image Segmentation in The Presence of Intensity In-Homogeneity

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Video Saliency Prediction with Optimized Optical Flow and Gravity Center Bias

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Recognize Human Activities from Multi-Part Missing Videos

Kaiping Xu, Zhen Qin, Guolong Wang

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A Pair Hidden Markov Support Vector Machine for Alignment of Human Actions

Zhen Wang, Massimo Piccardi

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Multichannel Reduction Based on Sound Field Within Two Ears

Dengshi Li, Ruimin Hu, Xiaochen Wang, Guo Wu, Zheng Zhang, Weiping Tu

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Quality-of-Experience Prediction for Streaming Video

Zhengfang Duanmu, Abdul Rehman, Kai Zeng, Zhou Wang

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Automatic Image Dataset Construction with Multiple Textual Metadata

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Recurrent Convolutional Neural Network for Video Classification

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Adaptive Background for Real-Time Visual Tracking

*He Li, Daiqin Yang, Zhenzhong Chen
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Understanding Spatial Correlation in Eye-Fixation Maps for Visual Attention in Videos

*Tariq Alshawi, Zhiling Long, Ghassan Alregib
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Multi-label Active Learning for Image Classification with Asymmetrical Conditional Dependence

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Attribute-Based Multi-Dimension Scalable Access Control For Social Media Sharing

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Approximate Convex Decomposition for 2D Shapes based on Visibility Range

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Heterogeneity-Entropy based Unsupervised Feature Learning for Personality Prediction with Cross-Media Data

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Hand Gesture Recognition based on Canonical Formed Superpixel Earth Mover's Distance

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One-shot Deep Neural Network for Pose and Illumination Normalization Face Recognition

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A Novel Obstacle Detection Method based on Distortion of Laser Pattern

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A General PID-based Rate Adaptation Approach for TCP-based Live Streaming over Mobile Networks

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Subjective-Quality-Optimized Complexity Control for HEVC Decoding

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