

Oral Papers List

ID	Title
Session1-I: Computer Vision and Pattern Recognition	
94	Correlation based Identity Filter: An Efficient Framework For Person Search
257	Image Set Representation with L1-norm Optimal Mean Robust Principal Component Analysis
55	Two-Stage Saliency Fusion for Object Segmentation
57	Recognition of Offline Handwritten Mathematical Symbols Using Convolutional Neural Networks
98	Learning Local Instance Constraint for Multi-label Classification
113	PPEDNet: Pyramid Pooling Encoder-Decoder Network for Real-Time Semantic Segmentation
Session1-II: Analysis and Applications of Large-Scale 3D Multimedia Data	
162	Aesthetic Quality Assessment of Photos with Faces
368	Optimization Algorithm Toward Deep Features based Camera Pose Estimation
264	Sensitive Information Detection on Cyberspace
95	An Online Approach for Gesture Recognition toward Real-World Applications
153	Robust 3D Indoor Map Building via RGB-D SLAM with Adaptive IMU Fusion on Robot
41	Secure Image Denoising over two clouds
Session1-III: Artificial intelligence	
78	Deep Convolutional Neural Network for Emotion Recognition Using EEG and Peripheral Physiological Signal
204	Survival-Oriented Reinforcement Learning Model: An Efficient and Robust Deep Reinforcement Learning Algorithm for Autonomous Driving Problem
97	Incremental Active Learning Method for Supervised ISOMAP
213	Edge Detection based on Primary Visual Pathway
114	A New Kinect Approach to Judge Unhealthy Sitting Posture Based On Neck Angle and Torso Angle
65	A Spectral Unmixing Method based on Co-training
Session2-I: Computer Vision and Pattern Recognition	
253	Unsupervised Representation Learning with Deep CNN for Remote Sensing Images
254	Image Captioning with Object Detection and Localization

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267	Hardness Prediction for Object Detection Inspired by Human Vision
268	Orientation Estimation Network
270	A Method for Detecting Surface Defects in Insulators Based on RPCA
Session2-II: Security	
242	JPEG Photo Privacy-Preserving Algorithm Based on Sparse Representation and Data Hiding
241	Cross-Class and Inter-Class Alignment Based Camera Source Identification for Re-Compression Images
16	A Robust 3D Video Watermarking Scheme Based on Multi-Modal Visual Redundancy
29	Partial secret image sharing for (n, n) threshold based on image inpainting
79	Shape Registration and Low-Rank for Multiple Image Segmentation
Session2-III: Hyperspectral Image Processing	
43	Hyperspectral Image Classification Based on Deep Forest and Spectral-Spatial Cooperative Feature
81	Hyperspectral Image Classification Using Multi Vote Strategy on Convolutional Neural Network and Sparse Representation Joint Feature
121	Efficient Deep Belief Network Based Hyperspectral Image Classification
130	Classification of Hyperspectral Imagery Based on Dictionary Learning and Extended Multi-Attribute Profiles
195	Deep Residual Convolutional Neural Network for Hyperspectral Image Super-resolution
Session3-I: Computer Vision and Pattern Recognition	
168	A Method on Recognizing Transmission Line Structure based on Multi-level Perception
208	Combining Object-Based Attention and Attributes for Image Captioning
228	Multi-focus Image Fusion using dictionary learning and Low-Rank Representation
233	Key-Region Representation Learning for Anomaly Detection
248	Local and Global Sparsity for Deep Learning Networks
Session3-II: Surveillance and remote sensing	
119	SAR Image Registration with Optimized Feature Descriptor and Reliable Feature Matching
124	Deformable Dictionary Design for Change Detection
230	The Detection of Built-up Areas in High-Resolution SAR Images Based on Deep Neural Networks
52	An Altitude Based Landslide and Debris Flow Detection Method for a Single Mountain Remote Sensing Image
218	An Improved Feature Selection Method for Target Discrimination in SAR Images
Session3-III: Computational Imaging &Multi-View and Stereoscopic Processing	
22	RGB-D Saliency Detection with Multi-feature-fused Optimization

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223	New Tikhonov Regularization for Blind Image Restoration
256	Real-time Multi-camera Video Stitching based on Improved Optimal Stitch Line and Multi-resolution Fusion
262	Warping and Blending Enhancement for 3D View Synthesis Based on Grid Deformation
244	Marker-Less 3D Human Motion Capture in Real-Time Using Particle Swarm Optimization with GPU-Accelerated Fitness Function
Session4-I: Computer Vision and Pattern Recognition	
49	Pedestrian Detection via Structure-Sensitive Deep Representation Learning
170	Saliency Detection Based on Background and Foreground Modeling
36	Salient Object Detection via Google Image Retrieval
193	Margin-Aware Binarized Weight Networks for Image Classification
214	Multi-Instance Multi-Label Learning for Image Categorization Based on Integrated Contextual Information
Session 4-II: Computer Graphics and Visualization	
91	Shape Recovery of Endoscopic Videos by Shape from Shading using Mesh Regularization
123	Lazy Recoloring
255	Adaptive Density Optimization of Lattice Structures Sustaining the External Multi-Load
136	An artery/vein Classification Method based on Color and Vascular Structure Information
251	Automatic Classification of Focal Liver Lesion in Ultrasound Images Based on Sparse Representation
Session4-III: Compression, Transmission, Retrieval	
149	Video Content Caching and Delivery for Tri-Party Joint Profit Optimization
194	Local Disparity Vector Derivation Scheme in 3D-AVS2
59	Adaptive Coding for Compressed Video Sensing
60	Deep Top Similarity Preserving Hashing for Image Retrieval
100	A Fast CU Decision Algorithm in Inter Coding Based on Residual Analysis
Session5-I: Computer Vision and Pattern Recognition	
32	Non-local L0 Gradient Minimization Filter and Its Applications for Depth Image Upsampling
72	Affine-Gradient Based Local Binary Pattern Descriptor for Texture Classification
84	A New Framework for Removing Impulse Noise in an Image
88	Joint Classification Loss and Histogram Loss for Sketch-based Image Retrieval
110	Deep Scale Feature for Visual Tracking
Session5-II: 5G Multimedia Communications	

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277	GECKO: Gamer Experience-Centric Bitrate Control Algorithm for Cloud Gaming
280	A QoE-Aware Video Quality Guarantee Mechanism in 5G Network
282	Energy-Aware Fast Interest Forwarding for Multimedia Streaming Over ICN 5G-D2D
Session6-I: Color and Multispectral Processing Recognition	
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145	Tricolor Pre-equalization Deblurring for Underwater Image Enhancement
40	Practical Bottom-up Golf Course Detection Using Multispectral Remote Sensing Imagery
190	Link Functions and Training-based in Reflectance Reconstruction from RGB Images
239	Multi-modal Image Registration based on Modified-SURF and Consensus Inliers Recovery
Session6-II: Computer Vision and Pattern Recognition	
112	TCCF: Tracking Based on Convolutional Neural Network and Correlation Filters
116	Using Stacked Auto-encoder to Get Feature with Continuity and Distinguishability in Multi-object Tracking
157	Attention-sharing Correlation Learning for Cross-media Retrieval

Please note that each paper must have at least one author registered and attend the conference. The No-show papers are defined as papers submitted by authors who subsequently did not present the paper in-person (no videos, no remote cast) at the technical meeting. Presentations by proxies are not allowed, unless explicitly approved before the conference by the technical co-chairs. No-show papers that were not withdrawn and were published in the Proceedings must be identified as "No-Show" in the files submitted to Springer for further publication.

Poster Papers List

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161	USTB-Helloear: A Large Database of Ear Images Photographed Under Uncontrolled Conditions
8	Stability Analysis of ECOC Kernel Machines
265	Simultaneous Segmentation of Multiple Regions in 3D Bladder MRI by Efficient Convex Optimization of Coupled Surfaces
127	Efficient Statistical Shape Models-based Image Segmentation Approach Using Deformable Simplex Meshes
184	Improved U-Net Model for Nerve Segmentation
140	MRI images Enhancement and Tumor Segmentation for Brain
50	Parallel Regional Growth Marching Cubes: Efficient Surface Reconstruction based on MPI
226	ECG Waveform Extraction from Paper Records
63	Efficient Decolorization via Perceptual Group Difference Enhancement
7	Background Self-adapted Digital Camouflage Pattern Generation Algorithm For Fixed Target
38	Uncooperative Gait Recognition Using Joint Bayesian
129	Deep Networks for Single Image Super-Resolution with Multi-context Fusion
133	Chinese Handwriting Generation by Neural Network Based Style Transformation
141	Text Detection based on Affine Transformation
166	Long-distance/Environment Face Image Enhancement Method for Recognition
Poster Session 2: Compression, Transmission, Retrieval&Multi-View and Stereoscopic Processing	
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152	Information Gain Product Quantization for Image Retrieval
182	A Novel Self-adaptive Defog Method Based on Bionic
252	A Feature-Based Coding Algorithm for Face Image
111	Feature-based Facial Image Coding Method Using Wavelet Transform
175	A Crop Disease Image Retrieval Method Based on the Improvement of Inverted Index
6	Stereoscopic Digital Camouflage Pattern Generation Algorithm Based on Color Image Segmentation
90	Uncertain Region Identification for Stereoscopic Foreground Cutout
275	A Quality Evaluation Scheme to 3D Printing Objects Using Stereovision Measurement
126	Map-build Algorithm Based on the Relative Location of Feature Points
142	Sparse Acquisition Integral Imaging System

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271	A Vehicle-Mounted Multi-Camera 3D Panoramic Imaging Algorithm Based on Ship-Shaped Model
45	A New SMVQ-based Reversible Data Hiding Scheme Using State-codebook Sorting
61	An efficient privacy-preserving classification method with condensed information
74	Improved Fully Convolutional Network for the Detection of Built-up Areas in High Resolution SAR Images
30	An Application Independent Logic Framework for Human Activity Recognition
Poster Session 3: Computational Imaging	
56	Research on Color Image Segmentation
101	Depth-Based Focus Stacking with Labeled-Laplacian Propagation
147	A Novel Method for Measuring Shield Tunnel Cross Sections
185	Image Noise Estimation based on Principal Component Analysis and Variance-Stabilizing Transformation
197	Depth Image Acquisition Method in Virtual Interaction of VR Yacht Simulator
198	An Image Segmentation Method Based on Asynchronous Multiscale Similarity Measure
4	A Double Recursion Algorithm to Image Restoration from Random Limited Frequency Data
189	Efficient High Dynamic Range Video Using Multi-exposure CNN Flow
216	Lagrange Detector in Image Processing
272	Image Quality Assessment of Enriched Tonal Levels Images
261	Object Tracking Based on Multi-modality Dictionary Learning
274	A Dim Small Target Detection Method Based on Spatial-Frequency Domain Features Space
5	A Hierarchical Voting Scheme for Robust Geometric Model Fitting
203	Multi-template Matching Algorithm Based on Adaptive Fusion
258	SAR Automatic Target Recognition Based on Deep Convolutional Neural Network
209	Intrinsic Image Decomposition: A Comprehensive Review
Poster Session 4: Computer Graphics and Visualization	
191	Online High-accurate Calibration of RGB+3D-LiDAR for Autonomous Driving
196	A 3D Tube-Object Centerline Extraction Algorithm Based on Steady Fluid Dynamics
83	SRG and RMSE-based Automated Segmentation for Volume Data
192	Run-based connected Components Labeling Using Double-row Scan
27	Joint Visualization of UKF Tractography Data
28	Semantic Segmentation Based Automatic Two-Tone Portrait Synthesis

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172	Adaptive Learning Compressive Tracking based on Kalman Filter
207	Moving Objects Detection In Video Sequences Captured By A PTZ Camera
11	A Variational Model to Extract Texture from Noisy Image Data with Local Variance Constraints
154	Similar Trademark Image Retrieval Integrating LBP and Convolutional Neural Network
225	Fast Grid-Based Fluid Dynamics Simulation with Conservation of Momentum and Kinetic Energy on GPU
235	Actual License Plate Images Clarity Classification via Sparse Representation
245	Adaptive Patch Quantization for Histogram-Based Visual Tracking
246	Neural Image Caption Generation with Global Feature Based Attention Scheme
Poster Session 5: Computer Vision and Pattern Recognition	
173	Scale Estimation and Refinement in Monocular Visual-Inertial SLAM System
222	Book Page Identification using Convolutional Neural Networks Trained by Task-unrelated Dataset
224	No Reference Assessment of Image Visibility for Dehazing
243	Non-Rigid 3D Object Retrieval with a Learned Shape Descriptor
249	Object Detection by Learning Oriented Gradients
14	Multi-Kernel Hashing with Semantic Correlation Maximization for Cross-Modal Retrieval
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70	Online Fast Deep Learning Tracker based on Deep Sparse Neural Networks
96	A Novel Pavement Crack Detection Approach Using Pre-selection based on Transfer Learning
164	A Method for Extracting Eye Movement and Response Characteristics to Distinguish Depressed People
176	Crop Disease Image Recognition Based on Transfer Learning
188	Heterogeneous Multi-Group Adaptation for Event Recognition in Consumer Videos
247	Activation-Based Weight Significance Criterion for Pruning Deep Neural Networks
25	An Unsupervised Change Detection Approach for Remote Sensing Image Using Visual Attention Mechanism
37	Abnormal Gait Detection in Surveillance Videos with FFT-based Analysis on Walking Rhythm
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151	Fabric Defect Detection Algorithm based on Multi-channel Feature Extraction and Joint Low-rank Decomposition
156	The Research of Multi-angle Face Detection Based on Multi-feature Fusion
181	Sparse Time-Varying Graphs for Slide Transition Detection in Lecture Videos
234	Boosting CNN-based Pedestrian Detection via 3D LiDAR Fusion in Autonomous Driving
1	1 S2DLDP with Its Application to Palmprint Recognition
15	Preprocessing and Segmentation Algorithm for Multiple Overlapped Fiber Image
17	Action Graph Decomposition Based on Sparse Coding
31	An Efficient and Robust Visual Tracking via Color-Based Context Prior Model
73	Deep Convolutional Neural Network for Facial Expression Recognition
117	Vehicle Detection Based on Superpixel and Improved HOG in Aerial Images
118	Scalable object detection using deep but lightweight CNN with features fusion
122	Object Tracking with Blocked Color Histogram
179	Multi-Orientation Scene Text Detection Leveraging Background Suppression

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