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IMAGE PROCESSING TITLES 2017-18

IMAGE PROCESSING

- 1) Feasible and Robust Optimization Framework for Auxiliary Information Refinement in Spatially-Varying Image Enhancement-APR 2017
- 2) A Multi-objective Decision Making Approach for Solving the Image Segmentation Fusion Problem-APR 2017
- 3) Image Reconstruction using Matched Wavelet Estimated from Data Sensed Compressively using Partial Canonical Identity Matrix-APR 2017
- 4) Enhancement of Visual Comfort and Sense of Presence on Stereoscopic 3D Images- May 2017
- 5) A Fast Ellipse Detector Using Projective Invariant Pruning-MAY 2017
- 6) Locator-Checker-Scaler Object Tracking Using Spatially Ordered and Weighted Patch Descriptor-MAY 2017
- 7) Piecewise-stationary motion modeling and iterative smoothing to track heterogeneous particle motions in dense environments-JUNE 2017
- 8) Learning the image processing pipeline-JUNE 2017
- 9) A Survey on Brain Tumor Detection Using Image Processing Techniques 08 June 2017

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- 10) An Innovative Practice in a Graduate Course Combining Startups Evaluation and Image Processing-June 2017
- 11) **Spherepix: a Data Structure for Spherical Image Processing**-April 2017
- 12) **PCB Reverse Engineering Using Nondestructive X-ray Tomography and Advanced Image Processing**
- 13) A NOvel Fast Tensor-Based Preconditioner for Image Restoration-JUNE 2017
- 14) Fast segmentation from blurred data in 3D fluorescence microscopy-June 2017
- 15) Deep Convolutional Neural Network for Inverse Problems in Imaging-June 2017
- 16) Contrast Enhancement Based on Intrinsic Image Decomposition 10 May 2017
- 17) Features Classification Forest: A Novel Development that is Adaptable to Robust Blind Watermarking Techniques-May 2017
- 18) Motion-Compensated Compression of Dynamic Voxelized Point Clouds-May 2017
- 19) Con-Text: Text Detection for Fine-grained Object Classification- May 2017
- 20) Cross-Label Suppression: A Discriminative and Fast Dictionary Learning With Group Regularization-May 2017
- 21) dipIQ: Blind Image Quality Assessment by Learning-to-Rank Discriminable Image Pairs- 26 May 2017

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- 22) Hierarchical Guidance Filtering-Based Ensemble Classification for Hyperspectral Images- April 2017
- 23) Hierarchical Approach for Rain or Snow Removing in A Single Color Image. (IEEE 2017).
- 24) Alpha Matting with KL-Divergence Based Sparse Sampling
- 25) An Embedded Marked Point Process Framework for Three-Level Object Population Analysis
- 26) Anti-impulse-noise EdgeDetection via Anisotropic Morphological Directional Derivatives
- 27) Bilinear Optimized Product Quantization for Scalable Visual Content Analysis
- 28) Blind Deep S3D Image Quality Evaluation via Local to Global Feature Aggregation
- 29) A Closed-form Solution to Single Underwater Camera Calibration using Triple Wavelength Dispersion and its Application to Single Camera 3DReconstruction
- 30) Conditional High-order Boltzmann Machines for Supervised Relation Learning
- 31) Deep Learning on Sparse Manifolds for Faster Object Segmentation
- 32) DeepFix: A Fully Convolutional Neural Network for predicting Human Eye Fixations
- 33) Depth Image Inpainting: Improving Low RankMatrix Completion with Low Gradient Regularization
- 34) Direct Pattern Control Halftoning of Neugebauer Primaries
- 35) Discriminative Deep Metric Learning for Face and Kinship Verification
- 36) Face Hallucination using Linear Models of Coupled Sparse Support

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- 37) Fast and Orthogonal Locality Preserving Projections for Dimensionality Reduction
- 38) Geometry and Radiometry Invariant Matched Manifold Detection
- 39) Going Deeper with Contextual CNN for Hyperspectral Image Classification
- 40) Greedy Batch-based Minimum-cost Flows for Tracking Multiple Objects
- 41) Hierarchical Contour Closure based Holistic Salient Object Detection
- 42) Local Directional Ternary Pattern for Facial Expression Recognition
- 43) Multiscale Shannon's Entropy Modelling of Orientation and Distance in Steel Fiber Micro-Tomography Data
- 44) MuLoG, or How to apply Gaussian denoisers to multi-channel SAR speckle reduction?
- 45) Multi-image blind super-resolution of 3D scenes
- 46) Near-Infrared Coloring via a Contrast-Preserving Mapping Model
- 47) Nested Conjugate Gradient Algorithm With Nested Preconditioning for Non-Linear Image Restoration
- 48) Palmprint Recognition Based on Complete Direction Representation
- 49) QoE-guided warping for stereoscopic image retargeting
- 50) Scalable Multi-View Semi-Supervised Classification via Adaptive Regression
- 51) Single and Multiple Illuminant Estimation Using Convolutional Neural Networks
- 52) Structured Kernel Dictionary Learning with Correlation Constraint for Object Recognition

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- 53) Temporal Dependent Rate-Distortion Optimization for Low-Delay Hierarchical Video Coding
- 54) Single-Scale Fusion: An Effective Approach to Merging Images- Jan 2017
- 55) **Trainable Nonlinear Reaction Diffusion: A Flexible Framework for Fast and Effective Image Restoration**-June 2017
- 56) Bayesian Face Sketch Synthesis- March 2017
- 57) Blind Facial Image Quality Enhancement using Non-Rigid Semantic Patches- June 2017
- 58) Haze Removal using the Difference-Structure-Preservation Prior- March 2017
- 59) **Hierarchical Guidance Filtering-Based Ensemble Classification for Hyperspectral Images**- July 2017
- 60) **Digital Image Processing Techniques for Estimating Power Released from the Corona Discharges**- Feb 2017
- 61) Selective Convolutional Descriptor Aggregation for Fine-Grained Image Retrieval- June 2017
- 62) **Analyzing Eye-Tracking Information in Visualization and Data Space: from Where on the Screen to What on the Screen** -May 2017
- 63) Removal of Canvas Patterns in Digital Acquisitions of Paintings -Jan 2017
- 64) Affine Non-local Means Image Denoising- May 2017
- 65) **Higher Order Dynamic Conditional Random Fields Ensemble for Crop Type Classification in Radar Images**- May 2017

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- 66) Features Classification Forest: A Novel Development that is Adaptable to Robust Blind Watermarking Techniques-May 2017
- 67) Deformable Patterned Fabric Defect Detection With Fisher Criterion-Based Deep Learning- April 2017
- 68) Processing Sliding Mosaic Mode Data With Modified Full-Aperture Imaging Algorithm Integrating Scalloping Correction- May 2017
- 69) Facial Age Estimation with Age Difference- July 2017
- 70) Motion Detection and Compensation of Affine Deformations in Infrared Retinal Videos- Jan. 2017
- 71) A new displaying technology for information hiding using temporally brightness modulated pattern- Feb. 2017
- 72) Adaptive Progressive Motion Vector Resolution Selection Based on Rate-Distortion Optimization- Jan. 2017
- 73) Fast unsupervised Bayesian image segmentation with adaptive spatial regularization- June 2017
- 74) Graphical Representation for Heterogeneous Face Recognition- Feb 2017
- 75) Robust Face Recognition with Kernelized Locality-Sensitive Group Sparsity Representation- Oct 2017
- 76) Largest Matching Areas for Illumination and Occlusion Robust Face Recognition-March 2017

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- 77) Automated Detection of Engagement using Video-Based Estimation of Facial Expressions and Heart Rate- March 2017
- 78) Robust Transfer Metric Learning for Image Classification- Feb. 2017
- 79) Optimized Multi operator Image Retargeting Based on Perceptual Similarity Measure-MAY 2017
- 80) Adaptive Multispectral Demosaicking Based on Frequency-Domain Analysis of Spectral Correlation- Feb. 2017
- 81) Face Search at Scale- June 1 2017
- 82) Hyperbolic wavelet-Fisz denoising for a model arising in ultrasound imaging- March 2017
- 83) Context-Aware Local Binary Feature Learning for Face Recognition-May 2017
- 84) Learning Correspondence Structures for Person Re-identification-March 2017
- 85) Semi-Supervised Sparse Representation Based Classification for Face Recognition with Insufficient Labeled Samples-March 2017
- 86) Simultaneous Feature and Dictionary Learning for Image Set Based Face Recognition-June 2017
- 87) A Facial-Expression Monitoring System for Improved Healthcare in Smart Cities-June 2017
- 88) Fog Density Estimation and Image Defogging Based on Surrogate Modeling for Optical Depth-May 2017

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- 89) Single Image Rain Streak Decomposition Using Layer Priors-May 2017
- 90) A Hierarchical Approach for Rain or Snow Removing in A Single Color Image-May 2017
- 91) Single Image Super-Resolution via Adaptive Transform-Based Nonlocal Self-Similarity Modeling and Learning-Based Gradient Regularization-March 2017
- 92) Modified classification and regression tree for facial expression recognition with using difference expression images-MARCH 2017
- 93) Feature Sensitive Label Fusion with Random Walker for Atlas-Based Image Segmentation-APRIL 2017
- 94) Ship Detection from Optical Satellite Images Based on Saliency Segmentation and Structure-LBP Feature-MARCH 2017
- 95) Disjunctive Normal Parametric Level Set With Application to Image Segmentation-MARCH 2017
- 96) Segmentation-Based Fine Registration of Very High Resolution Multi-temporal Images-FEB 2017
- 97) Scene Text Detection and Segmentation Based on Cascaded Convolution Neural Networks-JAN 2017

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- 98) Weighted Level Set Evolution Based on Local Edge Features for Medical Image Segmentation- FEB 2017
- 99) Hierarchical Image Segmentation Based on Iterative Contraction and Merging-JAN 2017
- 100) Semantic Segmentation of Remote Sensing Imagery Using an Object-Based Markov Random Field Model with Auxiliary Label Fields-FEB 2017
- 101) Super-pixel-Based Difference Representation Learning for Change Detection in Multispectral Remote Sensing Images-FEB 2017
- 102) Unsupervised Linking of Visual Features to Textual Descriptions in Long Manipulation Activities-FEB 2017
- 103) A Region-Wised Medium Transmission Based Image De-hazing Method-JAN 2017
- 104) Adaptive Solitary Pulmonary Nodule Segmentation for Digital Radiography Images Based on Random Walks and Sequential Filter-FEB 2017
- 105) Object-Based Multiple Foreground Segmentation in RGBD Video-JAN 2017
- 106) Depth Map Reconstruction for Underwater Kinect Camera Using In-painting and Local Image Mode Filtering-APR 2017
- 107) A Survey of Dictionary Learning Algorithms for Face Recognition-APR 2017
- 108) Multi-focus Image Fusion Based on Extreme Learning Machine and Human Visual System- APR 2017

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- 109) Robust Non-Rigid Point Set Registration Using Spatially Constrained Gaussian Fields- JAN 2017
- 110) Face Hallucination using Linear Models of Coupled Sparse Support-JUNE 2017
- 111) Scalable Multi-View Semi-Supervised Classification via Adaptive Regression-SEP 2017
- 112) Quality Assessment of Perceptual Crosstalk on Two-view Auto-stereoscopic Displays- JUNE 2017
- 113) Beyond a Gaussian Denoiser: Residual Learning of Deep CNN for Image Denoising-FEB 2017
- 114) A Novel Fast Tensor-Based Preconditioner for Image Restoration-JUNE 2017
- 115) Fast segmentation from blurred data in 3D fluorescence microscopy-JUNE 2017
- 116) Blind Facial Image Quality Enhancement Using Non-Rigid Semantic Patches-MAY 2017
- 117) Sparse image reconstruction on the sphere: analysis and synthesis-JUNE 2017
- 118) Piecewise linear approximation of vector-valued images and curves via 2nd-order variational model-JUNE 2017
- 119) Deep Convolutional Neural Network for Inverse Problems in Imaging-JUNE 2017
- 120) Robust Face Recognition with Kernelized Locality-Sensitive Group Sparsity Representation-JUNE 2017
- 121) Large-scale Crowd sourced Study for Tone Mapped HDR Pictures-JUNE 2017

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- 122) Direct Pattern Control Half toning of Neugebauer Primaries-JUNE 2017
- 123) Multimodal Similarity Gaussian Process Latent Variable Model-JUNE 2017
- 124) Ocular Recognition for Blinking Eyes-JUNE 2017
- 125) Unsupervised Sequential Outlier Detection with Deep Architectures-JUNE 2017
- 126) Illumination Decomposition for Photograph with Multiple Light Sources-JUNE 2017
- 127) Coherent Semantic-visual Indexing for Large-scale Image Retrieval in the Cloud Global-JUNE 2017
- 128) 300 FPS Salient Object Detection via Minimum Directional Contrast-JUNE 2017
- 129) Fast Domain Decomposition for Global Image Smoothing-JUNE 2017
- 130) Learning the Personalized Intransitive Preferences of Images-MAY 2017
- 131) Super Patch Match: an Algorithm for Robust Correspondences using Superpixel Patches-MAY 2017
- 132) Weakly Supervised Part Proposal Segmentation from Multiple Image-MAY 2017
- 133) High-quality parallel-ray X-Ray CT back projection using optimized interpolation-MAY 2017
- 134) An Efficient Fusion-Based Defogging-may 2017
- 135) Label Information Guided Graph Construction for Semi-Supervised Learning-MAY 2017

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- 136) Sparsity-based Color Image Super Resolution via Exploiting Cross Channel Constraints- MAY 2017
- 137) Hierarchical Contour Closure based Holistic Salient Object Detection-MAY 2017
- 138) Analysis of Disparity Error for Autofocus Significant- APRIL 2017
- 139) Particle Swarm Optimized Fuzzy Model for the Classification of Banana Ripeness-JUNE 2017
- 140) Particle Swarm Optimized Fuzzy Model for the Classification of Banana Ripeness

MEDICAL IMAGE PROCESSING

- 1) Segmentation of locally varying numbers of outer retinal layers by a model selection approach
- 2) A robust active contour segmentation based on fractional-order differentiation and fuzzy energy
- 3) Automatic Detection of Retinal Lesions for Screening of Diabetic Retinopathy
- 4) Monitoring Kidney Microanatomy Changes During Ischemia-Reperfusion Process Using Texture Analysis of OCT Images- April 2017

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- 5) Manifold Embedding and Semantic Segmentation for Intra operative Guidance with Hyper Spectral Brain Imaging- April 2017
- 6) Edge preserving and noise reducing reconstruction for magnetic particle imaging- Jan. 2017
- 7) Image Segmentation Using Disjunctive Normal Bayesian Shape and Appearance Models-Sep 2017
- 8) A Deep Cascade of Convolutional Neural Networks for Dynamic MR Image Reconstruction-Oct 2017
- 9) End-to-end Adversarial Retinal Image Synthesis-Oct 2017
- 10) Automatic Skin Lesion Segmentation Using Deep Fully Convolutional Networks With Jaccard Distance- April 2017
- 11) Detecting Cardiovascular Disease from Mammograms With Deep Learning- Jan 2017
- 12) Real-Time Ultrasound Segmentation, Analysis and Visualisation of Deep Cervical Muscle Structure-Feb 2017
- 13) Estimation of Large Motion in Lung CT by Integrating Regularized Keypoint Correspondences into Dense Deformable Registration-April 2017
- 14) Segmentation Based Sparse Reconstruction of Optical Coherence Tomography Images-Feb 2017
- 15) Residual Deconvolutional Networks for Brain Electron Microscopy Image Segmentation-Feb 2017

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- 16) Melanoma Classification on Dermoscopy Images Using a Neural Network Ensemble Model-Mar 2017
- 17) Neuron Segmentation with High-Level Biological Priors-June 2017
- 18) A Multi-Classifer System for Automatic Mitosis Detection in Breast Histopathology Images Using Deep Belief Networks-APRIL 2017
- 19) Spatiotemporal Strategies for Joint Segmentation and Motion Tracking From Cardiac Image Sequences-FEB 2017
- 20) Spatial Statistics for Segmenting Histological Structures in H&E Stained Tissue Images-MAY 2017

MACHINE LEARNING & NEURAL NETWORKS

- 1) Traffic Sign Detection and Recognition Using Fuzzy Segmentation Approach and Artificial Neural Network Classifier Respectively
- 2) Discriminative Feature Extraction by a Neural Implementation of Canonical Correlation Analysis-Jan. 2017
- 3) Neural Network Learning and Robust Stabilization of Nonlinear Systems With Dynamic Uncertainties-Sept 2017

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- 4) Image-Specific Classification With Local and Global Discriminations- September 2017
- 5) Learning Methods for Dynamic Topic Modeling in Automated Behavior Analysis- September 2017
- 6) Haze Removal Using Radial Basis Function Networks for Visibility Restoration Applications- September 2017
- 7) Deep Manifold Learning Combined With Convolutional Neural Networks for Action Recognition- September 2017
- 8) Deep Neural Network for Structural Prediction and Lane Detection in Traffic Scene-March 2017
- 9) A Novel Locally Linear KNN Method With Applications to Visual Recognition- September 2017
- 10) Deep Manifold Learning Combined With Convolutional Neural Networks for Action Recognition-September 2017

IMAGE SEGMENTATION

- 1) Real-Time Moving Object Segmentation and Classification from HEVC Compressed Surveillance Video
- 2) Salient Region Detection via Discriminative Dictionary Learning and Joint Bayesian Inference
- 3) An Incremental Framework for Video-Based Traffic Sign Detection, Tracking, and Recognition

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- 4) RWBD: Learning Robust Weighted Binary Descriptor for Image Matching
 1. Detecting morphological filtering of binary images-January 2017
 2. Learning Spatio-Temporal Information for Multi-Object Tracking-March 2017
 3. Weak Classifier for Density Estimation in Eye Localization and Tracking-April 2017

STEGANOGRAPHY

- 1) A Robust and Secure Video Steganography Method in DWT-DCT Domains Based on Multiple Object Tracking and ECC
- 2) Watermarking of Digital Media with Encrypted Biometric Features for Digital Ownership
- 3) On the Security of a Class of Diffusion Mechanisms for Image Encryption
- 4) Steganography with Multiple JPEG Images of the SameScene-May 2017
- 5) Chaos-based fast colour image encryption scheme with true random number keys from environmental noise-May 2017
- 6) Features Classification Forest: A Novel Development that is Adaptable to Robust Blind Watermarking Techniques-May 2017

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BIOMETRICS

- 1) An Efficient Signature Verification Method based on an Interval Symbolic Representation and a Fuzzy Similarity Measure
- 2) Deep Representation based feature extraction and recovering for Finger-vein verification-March 2017

SIGNAL PROCESSING

- 1) Perceptual Adaptation of Image based on Chevreul-Mach Bands Visual Phenomenon-March 2017
- 2) Fractional Krawtchouk transform with an application to image watermarking-April 2017
- 3) Implementation Of Virtual Fitting Room Using Image Processing -June 2017

Information Forensics and Security

- 1) Soft Biometrics: Globally Coherent Solutions for Hair Segmentation and Style Recognition based on Hierarchical MRFs- July 2017
- 2) An Image-Based Approach to Detection of Fake Coins-January 2017
- 3) Splicing Image Forgery Detection Using Textural Features Based on the

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Gray Level Co-occurrence Matrices-April 2017

Modern Circuits and Systems Technologies

- 1) A Smart Phone Image Processing Application for Plant Disease Diagnosis: June 2017
- 2) A Software Demonstrator for Cognitive Image Processing Using the Associative Memory chip- June 2017

INTELLIGENT TRANSPORT SYSTEMS

4. Automatic Detection of Red Light Running Using Vehicular Cameras-January 2017
5. Counting vehicles in urban traffic scenes using foreground time-spatial Images-March 2017
6. Segmentation- and Annotation-Free License Plate Recognition With Deep Localization and Failure Identification-January 2017

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