CHENNAI – PONDICHERRY
IMAGE PROCESSING TITLES 2018-19

New Titles

1. A Background Modeling and Foreground Detection Algorithm Using Scaling Coefficients Defined With a Color Model Called Lightness-Red-Green-Blue
2. A Detail-Based Method for Linear Full Reference Image Quality Prediction
3. A Fractional Order Variational Framework for Retinex Fractional Order Partial Differential Equation Based Formulation for Multi Scale Nonlocal Contrast Enhancement with Texture Preserving
5. A MAP-Based Approach for Hyperspectral Imagery Super-Resolution
6. A Multi-Region Segmentation Method for SAR Images Based on the Multi-Texture Model With Level Sets
7. A Perceptually Weighted Rank Correlation Indicator for Objective Image Quality Assessment
8. A Physics-Based Deep Learning Approach to Shadow Invariant Representations of Hyperspectral Images
9. A Variational Pansharpening Approach Based on Reproducible Kernel Hilbert Space and Heaviside Function
10. Adaptive Residual Networks for High-Quality Image Restoration
11. Automatic Depth Extraction from 2D Images Using a Cluster-Based Learning Framework
12. Automatic Registration of Images With Inconsistent Content Through Line-Support Region Segmentation and Geometrical Outlier Removal
13. Background Modeling by Stability of Adaptive Features in Complex Scenes
14. Blind Stereoscopic Video Quality Assessment From Depth Perception to Overall Experience
15. BULDP Biomimetic Uncorrelated Locality Discriminant Projection for Feature Extraction in Face Recognition
16. Camera Shutter-Independent Registration and Rectification
17. Camera-Aware Multi-Resolution Analysis for Raw Image Sensor Data Compression
18. Cell Membrane Tracking in Living Brain Tissue Using Differential Interference Contrast Microscopy
20. Compression-Dependent Transform-Domain Downward Conversion for Block-Based Image Coding
22. Differential Evolutionary Superpixel Segmentation
23. Discriminative Transfer Learning for General Image Restoration
24. Dissecting and Reassembling Color Correction Algorithms for Image Stitching
25. Edge-Based Defocus Blur Estimation With Adaptive Scale Selection
26. Efficient Encrypted Images Filtering and Transform Coding With Walsh-Hadamard Transform and Parallelization
27. Efficient Scalable Median Filtering Using Histogram-Based Operations
28. End-to-End Blind Image Quality Assessment Using Deep Neural Networks
29. Exploring Weakly Labeled Images for Video Object Segmentation With Submodular Proposal Selection
31. Fast Image Super-Resolution via Local Adaptive Gradient Field Sharpening Transform
32. Feature Map Quality Score Estimation Through Regression
33. Full Scale Regression-Based Injection Coefficients for Panchromatic Sharpening
34. Generalization of the Dark Channel Prior for Single Image Restoration
35. Geometry-Consistent Light Field Super-Resolution via Graph-Based Regularization
37. Low-Rank Matrix Decomposition Help Internal and External Learnings for Super-Resolution
38. Image Haze Removal via Reference Retrieval and Scene Prior
39. Implicit Negative Sub-Categorization and Sink Diversion for Object Detection
40. Joint Hand Detection and Rotation Estimation Using CNN
41. Learning a Deep Single Image Contrast Enhancer from Multi-Exposure Images
42. Light Field Inpainting Propagation via Low Rank Matrix Completion
43. Moiré Photo Restoration Using Multiresolution Convolutional Neural Networks
44. Monte-Carlo Acceleration of Bilateral Filter and Non-Local Means
45. Multi-Attributed Graph Matching With Multi-Layer Graph Structure and Multi-Layer Random Walks
46. Multiple-Level Feature-Based Measure for Retargeted Image Quality
47. Naturalness Preserved Image Enhancement Using a Priori Multi-Layer Lightness Statistics
48. NIQSV+ A No-Reference Synthesized View Quality Assessment Metric
49. Novel Integration of Frame Rate Up Conversion and HEVC Coding Based on Rate-Distortion Optimization
50. Object-Part Attention Model for Fine-Grained Image Classification
51. Parallel Block Sequential Closed-Form Matting With Fan-Shaped Partitions
52. Pixel Binning for High Dynamic Range Color Image Sensor Using Square Sampling Lattice
53. Reconstruction of Single Image from Multiple Blurry Measured Images
54. Region-Based Prediction for Image Compression in the Cloud
55. Reversion Correction and Regularized Random Walk Ranking for Saliency Detection
56. Reweighted Low-Rank Matrix Analysis With Structural Smoothness for Image Denoising
57. Robust Multi-Focus Image Fusion Using Edge Model and Multi-Matting
58. Robust PCA Based on Incoherence With Geometrical Interpretation
59. Robust Single-Image Super-Resolution Based on Adaptive Edge-Preserving Smoothing Regularization
60. Saliency Detection via Absorbing Markov Chain With Learnt Transition Probability
61. SDL Saliency-Based Dictionary Learning Framework for Image Similarity
62. Semantic Neighbor Graph Hashing for Multimodal Retrieval
63. Semi-Supervised Deep Learning Using Pseudo Labels for Hyperspectral Image Classification
64. Single Image Super-Resolution Based on Wiener Filter in Similarity Domain
65. Sparse and Low-Rank Decomposition of a Hankel Structured Matrix for Impulse Noise Removal
66. Spatial and Angular Resolution Enhancement of Light Fields Using Convolutional Neural Networks
67. SPSIM A Superpixel-Based Similarity Index for Full-Reference Image Quality Assessment
68. Structure-Revealing Low-Light Image Enhancement Via Robust Retinex Model
69. Supervised Polarimetric SAR Image Classification Using Tensor Local Discriminant Embedding
70. Unified Discriminative and Coherent Semi-Supervised Subspace Clustering
71. Privacy-preserving Image Processing in the Cloud
72. New Framework of Reversible Data Hiding in Encrypted JPEG Bitstreams
73. Exploiting color volume and color difference for salient region detection
74. A Framework of Joint Low-rank and Sparse Regression for Image Memorability Prediction
75. A Region-Wised Medium Transmission Based Image Dehazing Method
76. Deep Representation-Based Feature Extraction and Recovering for Finger-Vein Verification
77. Affine Non-Local Means Image Denoising
78. Fast Bilateral Filtering for Denoising Large 3D Images
79. Fast Multiregion Image Segmentation Using Statistical Active Contours
80. Semisupervised Hyperspectral Image Classification Using Small Sample Sizes
81. Low-PAPR Spatial Modulation for SC-FDMA
82. Ship Detection From Optical Satellite Images Based on Saliency Segmentation and Structure-LBP Feature
83. Space Codes for MIMO Optical Wireless Communications: Error Performance Criterion and Code Construction
84. Driver Fatigue Classification With Independent Component by Entropy Rate Bound Minimization Analysis in an EEG-Based System
85. Melanoma Is Skin Deep: A 3D Reconstruction Technique for Computerized Dermoscopic Skin Lesion Classification
86. An Efficient Precoder Design for Multiuser MIMO Cognitive Radio Networks With Interference Constraints
87. A Multi-Classifier System for Automatic Mitosis Detection in Breast Histopathology Images Using Deep Belief Networks
88. Design Space–Time Trellis-Coded Intercarrier Interference Parallel Cancellation
89. Random Walk Graph Laplacian-Based Smoothness Prior for Soft Decoding of JPEG Images
90. Image Fusion Using Quaternion Wavelet Transform and Multiple Features
91. Scene Text Detection and Segmentation Based on Cascaded Convolution Neural Networks
92. Learning Short Binary Codes for Large-scale Image Retrieval
93. Automated Diagnosis of Epilepsy using Keypoint Based Local Binary Pattern of EEG Signals
94. Learning Bases of Activity for Facial Expression Recognition
95. Learning Spatio-Temporal Information for Multi-Object Tracking
96. A Robust and Efficient Approach to License Plate Detection
97. Illumination-Invariant Background Subtraction: Comparative Review, Models, and Prospects
98. A Novel Color Image Encryption Scheme Using Rectangular Transform-Enhanced Chaotic Tent Maps
99. Learning Discriminative Binary Codes for Large-scale Cross-modal Retrieval
100. Coverage Performance of Joint Transmission for Moving Relay Enabled Cellular Networks in Dense Urban Scenarios
101. Fast Optic Disc Segmentation in Retina Using Polar Transform
102. Soft Biometrics: Globally Coherent Solutions for Hair Segmentation and Style Recognition Based on Hierarchical MRFs
103. Generalized 3-D Constellation Design for Spatial Modulation
104. A Low-Complexity, Sequential Video Compression Scheme Using Frame Differential Directional Filter Bank Decomposition in CIE La*b* Color Space
105. Weighted Level Set Evolution Based on Local Edge Features for Medical Image Segmentation
106. Pulmonary Lobe Segmentation With Probabilistic Segmentation of the Fissures and a Group wise Fissure Prior
107. Video Saliency Detection via Spatial-Temporal Fusion and Low-rank Coherency Diffusion
108. Medical Image Fusion and Denoising with Alternating Sequential Filter and Adaptive Fractional Order Total Variation
109. Salient Object Segmentation via Effective Integration of Saliency and Objectness
110. Independent Vector Analysis Applied to Remove Muscle Artifacts in EEG Data
111. Real-Time Classification of Healthy and Apnea Subjects using ECG Signals with Variational Mode Decomposition
112. Contrast Enhancement Based on Intrinsic Image Decomposition
113. Life-Threatening Ventricular Arrhythmia Detection With Personalized Features
114. Ocular Recognition for Blinking Eyes
115. Achieving Ultra Reliable Communication in 5G Networks: A Dependability Perspective Availability Analysis in the Space Domain
116. Particle Swarm Optimized Fuzzy Model for the Classification of Banana Ripeness
117. Image Reshaping for Efficient Compression of Plenoptic Content
118. Automatic Detection of Exudates in Digital Color Fundus Images Using Superpixel
119. Photo-to-Sketch Transformation in a Complex Background
120. Local Directional Ternary Pattern for Facial Expression Recognition
121. Learning-based Shadow Recognition and Removal from Monochromatic Natural Images
122. Change Detection in Synthetic Aperture Radar Images Based on Deep Neural Networks
123. Max-Min Fair Resource Allocation for SWIPT in Multi-Group Multicast OFDM Systems
124. Learning Efficient Binary Codes from High-level Feature representations for Multi-Label Image Retrieval
125. An Efficient and Clinical-Oriented 3D Liver Segmentation Method
126. Heterogeneous Manifold Ranking for Image Retrieval
127. Saliency-based Manifold Ranking for Image Retrieval
128. A Novel Side Face Contour Extraction Algorithm for Driving Fatigue Statue Recognition
129. Physical Layer Security in Ultra-Dense Networks
130. A Precoding-Based Multicarrier Non-Orthogonal Multiple Access Scheme for 5G Cellular Networks.
131. Mixture of Gaussian Blur Kernel Representation for Blind Image Restoration
132. Context-Aware Radio Access Technology Selection in 5G Ultra Dense Networks
133. Non-Linear Dimensionality Reduction and Gaussian Process Based Classification Method for Smoke Detection
134. Interference-Aware Energy Efficiency Maximization in 5G Ultra-Dense Networks
135. Resource Allocation in Non-Orthogonal and Hybrid Multiple Access System with Proportional Rate Constraint
136. Automated Diagnosis of Glaucoma Using Empirical Wavelet Transform and Correntropy Features Extracted from Fundus Images
137. Facial Expression Recognition From Image Sequence Based on LBP and Taylor Expansion
138. Stochastic-Geometry-Based Performance Analysis of Delayed Mobile Data Offloading With Mobility Prediction in Dense IEEE 802.11 Networks
139. Data compression for time-stretch imaging based on differential detection and run-length encoding
140. Color Retinal Image Enhancement Based on Luminosity and Contrast Adjustment.
141. A Spectral-Spatial Multicriteria Active Learning Technique for Hyperspectral Image Classification
142. Face Recognition Using Sparse Fingerprint Classification Algorithm
143. A First Public Research Collection of High-Resolution Latent Fingerprint Time Series for Short- and Long-Term Print Age Estimation
144. Feature Enhancement in Visually Impaired Images
145. In-Ear EEG Biometrics for Feasible and Readily Collectable Real-World Person Authentication
146. Manifold Embedding and Semantic Segmentation for Intraoperative Guidance with Hyper spectral Brain Imaging
147. Range-free Localization Algorithm for Anisotropic Wireless Sensor Networks
148. Texture Analysis Based Segmentation and Classification of Oral Cancer Lesions in Color Images Using ANN
149. REAL-TIME CLASSIFICATION OF HEALTHY AND APNEA SUBJECTS USING ECG SIGNALS WITH VARIATIONAL MODE DECOMPOSITION
150. Predictive Data Mining for Medical Diagnosis: An Overview of Heart Disease Prediction
151. Detecting Sleep Disorders Based on EEG Signals by Using Discrete Wavelet Transform
152. Field Support Vector Machines
153. Automatic Detection of Exudates in Digital Color Fundus Images Using Superpixel Multi-Feature Classification
154. Rain drop Detection and Removal using K-Means Clustering
155. Improved Block Truncation Coding Using Optimized Dot Diffusion
156. Dominant Local Binary Patterns for Texture Classification
157. A Survey on Diseases Detection and Classification of Cotton Leaf
158. Web Based Diagnostic Classifier System for Kidney Lesions using Image Texture Parameters
159. Simultaneous Sensing and Transmission for Cognitive Radios With Imperfect Signal Cancellation
160. Object Co-segmentation for Irrelevant Video Frames Involved in Multimedia
161. Energy efficient path selection for mobile sink and data gathering in wireless sensor networks
162. HEVC Deblocking Filter
163. A Review Paper on Currency Recognition System
164. EMOTION RECOGNITION USING WIRELESS SIGNALS
165. EFFICIENT FEATURE SELECTION TECHNIQUE BASED ON MODIFIED FUZZY C-MEANS CLUSTERING WITH ROUGH SET THEORY
166. Image Forgery Localization via Integrating Tampering Possibility Maps
167. Web Based Diagnostic Classifier System for Liver Lesions using Image Texture Parameters
168. Electroencephalography (EEG) signal processing for epilepsy and autism spectrum disorder diagnosis
169. Combining Gabor filtering and classification dictionaries learning for fingerprint enhancement
170. Determination of Age and Gender Based on Features of Human Motion Using AdaBoost Algorithms
171. Application of PNN for detection of diabetic retinopathy
172. BER analysis of conventional and wavelet based OFDM in LTE using different modulation techniques
173. Algorithm for Efficient Attendance Management: Face Recognition based approach
174. Learning Fingerprint Reconstruction: From Minutiae to Image
175. STUDENT ATTENDANCE SYSTEM USING IRIS DETECTION
176. Text-Attentional Convolutional Neural Network for Scene Text Detection
177. ADVANCED IMAGE ANALYSIS FOR THE ASSESSMENT OF RETINAL VASCULAR CHANGES
178. Rider Fatigue Detection and Speed Control Using Smart Helmet
179. Cerebral Micro-Bleed Detection Based on the Convolution Neural Network With Rank Based Average Pooling
180. Co-saliency Detection for RGBD Images Based on Multi-constraint Feature Matching and Cross Label Propagation
181. A Precoding-based PAPR Reduction Technique for UF-OFDM and Filtered-OFDM Modulations in 5G Systems
182. A similarity study of content-based image retrieval system for breast cancer using decision tree
183. A Feature Learning and Object Recognition Framework for Underwater Fish Images
184. How deep learning extracts and learns leaf features for plant classification
185. Computer-Aided Detection of Prostate Cancer in MRI
186. Image Retrieval using edge detection
188. A novel approach for automated detection of focal EEG signals using empirical wavelet transform
189. An Algorithm for Detecting Brain Tumors in MRI Images
190. A Genetic-Neuro-Fuzzy inferential model for diagnosis of tuberculosis
191. Smartphone-Based Wound Assessment System for Patients with Diabetes
192. Non-Touch Character Input System Based on Hand Tapping Gestures Using Kinect Sensor
193. BIOLOGICAL EARLY BRAIN CANCER DETECTION USING ARTIFICIAL NEURAL NETWORK
194. Improved Color Image Steganographic Technique In Transform Domain
197. Distributed Fuzzy Logic-Based Relay Selection Algorithm for Cooperative Wireless Sensor Networks
198. Energy Efficient and Secure Image Transmission in WSN
199. On the Performance of Non-Orthogonal Multiple Access in 5G Systems with Randomly Deployed Users

IMAGE PROCESSING

1. secure tunable-precision architecture for image processing applications
2. Identifying Corresponding Patches in SAR and Optical Images With a Pseudo-Siamese CNN
3. Progressive Dual-Domain Filter for Enhancing and Denoising Optical Remote-Sensing Images
4. Joint Denoising/Compression of Image Contours via Shape Prior and Context Tree
5. Reversible Data Hiding in Color Image with Grayscale Invariance
6. LOOP Descriptor: Local Optimal-Oriented Pattern
7. Joint capsule segmentation in ultrasound images of the metacarpophalangeal joint using a split and merge approach
8. Model based learning for accelerated, limited-view 3D photoacoustic tomography
9. Camera-recognizable visual cryptography for printed documents: Enhancing the user interface
10. Full-GRU Natural Language Video Description for Service Robotics Applications
11. A Novel Multi-Connected Convolutional Network for Super-Resolution
12. Saliency in VR: How Do People Explore Virtual Environments?
13. Building Extraction From RGB VHR Images Using Shifted Shadow Algorithm
14. Auxiliary Loss Multimodal GRU Model in Audio-Visual Speech Recognition
15. Photoacoustic Source Detection and Reflection Artifact Removal Enabled by Deep Learning
16. Evaluating the effect of various speckle reduction filters on ultrasound liver cancer images
17. Low Dose CT Image Denoising Using a Generative Adversarial Network with Wasserstein Distance and Perceptual Loss
18. Surface Reconstruction from Arbitrarily Large Point Clouds
19. Query Adaptive Multi-View Object Instance Search and Localization using Sketches
20. Fusion of Hyperspectral and LiDAR Data With a Novel Ensemble Classifier
21. Image processing-based pothole detecting system for driving environment
22. Visual Sentiment Prediction based on Automatic Discovery of Affective Regions
23. Feature Extraction From Multitemporal SAR Images Using Selforganizing Map Clustering and Object-Based Image Analysis
24. Speckle Removal Using Diffusion Potential for Optical Coherence Tomography Images
26. Robust Estimation of Skin Pigmentation from Facial Color Images Based on Color Constancy
27. MILE: A minimally interactive learning framework for visual data analysis
28. Turn Any Display Into a Touch Screen Using Infrared Optical Technique
29. Deep Learning for Quantification of Epicardial and Thoracic Adipose Tissue from Non-Contrast CT
30. Preprocessing methods for runway pictures taken in poor visibility conditions
31. Two-Dimensional Edge Detection by Guided Mode Resonant Metasurface
32. Convolutional neural network for saliency detection in images
33. Improving Shadow Suppression for Illumination Robust Face Recognition
34. An Efficient MSB Prediction-Based Method for High-Capacity Reversible Data Hiding in Encrypted Images
35. An Effective Face Detection Algorithm based on Skin Color Information.
36. A Real-Time High-Quality Complete System for Depth Image-Based Rendering on FPGA
37. Asymmetric Adaptation of Deep Features for Cross-Domain Classification in Remote Sensing Imagery
38. A Review on Intelligence Dehazing and Color Restoration for Underwater Images
39. Toward the Repeatability and Robustness of the Local Reference Frame for 3D Shape Matching: An Evaluation
40. Depth image-based object segmentation scheme for improving human action recognition
41. Denoising of Microscopy Images: A Review of the State-of-the-Art, and a New Sparsity-Based Method
42. Detection of People with Camouflage Pattern Via Dense Deconvolution Network
43. Elastic deformations for data augmentation in breast cancer mass detection
44. A new image denoising technique using orthogonal complex wavelets
45. Multi-Semi-Couple Super-Resolution Method for Edge Computing
46. Approximate computing for biometric security systems: A case study on iris scanning
47. Structure-Aware Local Sparse Coding for Visual Tracking.
48. Methodology for Improving Detection Speed of Pedestrians in Autonomous Vehicle by Image Class Classification.
49. Cognition for Enhanced Biometric Authentication
50. Feature Profiles from Attribute Filtering for Classification of Remote Sensing Images
51. A MAP-Based Approach for Hyperspectral Imagery Super-resolution
52. Full Scale Regression-based Injection Coefficients for Panchromatic Sharpening
53. Automatic Contrast Enhancement of Complex Low-contrast Images
54. Deep Learning Applications in Medical Image Analysis
55. Ship Detection From Thermal Remote Sensing Imagery Through Region-Based Deep Forest
56. Deep Coupled ResNet for Low-Resolution Face Recognition
58. Adaptive Screen Content Image Enhancement Strategy using Layer-based Segmentation
59. Locally Adaptive Contrast Enhancement Using Convolutional Neural Network
60. Image Segmentation for Intensity Inhomogeneity in Presence of High Noise
61. A Multiscale and Multidepth Convolutional Neural Network for Remote Sensing Imagery Pan-Sharpening
62. Model-based learning of local image features for unsupervised texture segmentation
64. A Robust Image Watermarking Technique with an Optimal DCT-Psychovisual Threshold.
65. Robust Single-Image Super-Resolution Based on Adaptive Edge-Preserving Smoothing Regularization
67. 3-D Deep Learning Approach for Remote Sensing Image Classification.
71. Automatic Detection of Plant Diseases; Utilizing an Unsupervised Cascaded Design.
72. Vehicle Tracking in Wide Area Motion Imagery via Stochastic Progressive Association Across Multiple Frames (SPAAM).
74. SVD-Based Tensor-Completion Technique for Background Initialization.
75. Face and Body Association for Video-based Face Recognition.
76. Detection of Hemorrhage from Fundus Images using Hybrid Method
77. Diagnosis of Diabetic Retinopathy by Detection of Microneurysm And Exudates
78. Automatic non-proliferative diabetic retinopathy screening system based on color fundus image