

Local binary patterns variants as texture descriptors for

Artificial Intelligence in Medicine

49, 117-125

DOI: [10.1016/j.artmed.2010.02.006](https://doi.org/10.1016/j.artmed.2010.02.006)

Citation Report

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A local approach based on a Local Binary Patterns variant texture descriptor for classifying pain states. Expert Systems With Applications, 2010, 37, 7888-7894. | 4.4 | 102       |
| 2  | Combined local and holistic facial features for age-determination. , 2010, , .   |     | 8         |
| 3  | Automated system for annotating and retrieving images. , 2011, , .   |     | 0         |
| 4  | Finger Vein Recognition Using Local Line Binary Pattern. Sensors, 2011, 11, 11357-11371.   | 2.1 | 234       |
| 5  | Local Binary Patterns for Still Images. Computational Imaging and Vision, 2011, , 13-47.   | 0.6 | 135       |
| 6  | On the Occurrence Probability of Local Binary Patterns: A Theoretical Study. Journal of Mathematical Imaging and Vision, 2011, 40, 259-268.                      | 0.8 | 28        |
| 7  | Combining shape, texture and intensity features for cell nuclei extraction in Pap smear images. Pattern Recognition Letters, 2011, 32, 838-853.                  | 2.6 | 119       |
| 8  | Texture classification using multimodal Invariant Local Binary Pattern. , 2011, , .  |     | 8         |
| 9  | Atherosclerotic plaque characterization in Optical Coherence Tomography images. , 2011, 2011, 4485-8.  |     | 16        |
| 10 | Multimodal image classification using inverted local patterns. , 2011, , .   |     | 1         |
| 11 | Statistical color texture descriptors for histological images analysis. , 2011, , .  |     | 19        |
| 12 | A Noise-Aware Coding Scheme for Texture Classification. Sensors, 2011, 11, 8028-8044.  | 2.1 | 6         |
| 13 | Finger Vein Recognition Based on Local Directional Code. Sensors, 2012, 12, 14937-14952.   | 2.1 | 91        |
| 14 | Using local binary pattern to classify dementia in MRI. , 2012, , .  |     | 16        |
| 15 | A Serious Game for Learning Ultrasound-Guided Needle Placement Skills. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 1032-1042.          | 3.6 | 43        |
| 16 | Combining multiple approaches for gene microarray classification. Bioinformatics, 2012, 28, 1151-1157.   | 1.8 | 42        |
| 17 | Local phase quantization for blur-insensitive image analysis. Image and Vision Computing, 2012, 30, 501-512.   | 2.7 | 98        |
| 18 | Radiological image classification using HMMs and Shape contexts. , 2012, , .   |     | 0         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Support vector machine for breast MR image classification. Computers and Mathematics With Applications, 2012, 64, 1153-1162.  | 1.4 | 46        |
| 20 | Fatigue Detection Based on Regional Local Binary Patterns Histogram and Support Vector Machine. , 2012, , .   |     | 3         |
| 21 | Spatially enhanced local binary pattern. Electronics Letters, 2012, 48, 1590-1591.  | 0.5 | 1         |
| 22 | The Anatomy of an Optical Biopsy Semantic Retrieval System. IEEE MultiMedia, 2012, 19, 16-27.   | 1.5 | 6         |
| 23 | Medical image retrieval system for diagnosis of brain tumor based on classification and content similarity. , 2012, , .   |     | 4         |
| 24 | Extended local binary patterns for texture classification. Image and Vision Computing, 2012, 30, 86-99.   | 2.7 | 291       |
| 25 | Random interest regions for object recognition based on texture descriptors and bag of features. Expert Systems With Applications, 2012, 39, 973-977.   | 4.4 | 13        |
| 26 | Survey on LBP based texture descriptors for image classification. Expert Systems With Applications, 2012, 39, 3634-3641.  | 4.4 | 230       |
| 27 | Computing the Principal Local Binary Patterns for face recognition using data mining tools. Expert Systems With Applications, 2012, 39, 7165-7172.  | 4.4 | 13        |
| 28 | Incremental face recognition for large-scale social network services. Pattern Recognition, 2012, 45, 2868-2883.   | 5.1 | 44        |
| 29 | Discriminative features for texture description. Pattern Recognition, 2012, 45, 3834-3843.  | 5.1 | 184       |
| 30 | A Novel Semiautomated Atherosclerotic Plaque Characterization Method Using Grayscale Intravascular Ultrasound Images: Comparison With Virtual Histology. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 391-400. | 3.6 | 37        |
| 31 | Identification of tumor epithelium and stroma in tissue microarrays using texture analysis. Diagnostic Pathology, 2012, 7, 22.  | 0.9 | 119       |
| 32 | Evaluation of noise robustness for local binary pattern descriptors in texture classification. Eurasip Journal on Image and Video Processing, 2013, 2013, .   | 1.7 | 63        |
| 33 | Subcellular localization using fluorescence imagery: Utilizing ensemble classification with diverse feature extraction strategies and data balancing. Applied Soft Computing Journal, 2013, 13, 4231-4243.                              | 4.1 | 22        |
| 35 | Fuzzy local binary patterns: A comparison between Min-Max and Dot-Sum operators in the application of facial expression recognition. , 2013, , .  |     | 9         |
| 36 | A comparison of methods for extracting information from the co-occurrence matrix for subcellular classification. Expert Systems With Applications, 2013, 40, 7457-7467.   | 4.4 | 20        |
| 37 | Noise-Resistant Local Binary Pattern With an Embedded Error-Correction Mechanism. IEEE Transactions on Image Processing, 2013, 22, 4049-4060.   | 6.0 | 195       |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 38 | The Mesh-LBP: Computing Local Binary Patterns on Discrete Manifolds. , 2013, , .  |     | 13        |
| 39 | Face Recognition under Varying Illumination Based on Local Binary Patterns with Circle Threshold. , 2013, , .   |     | 2         |
| 40 | Relaxed local ternary pattern for face recognition. , 2013, , .   |     | 37        |
| 41 | Artificial intelligence techniques for embryo and oocyte classification. Reproductive BioMedicine Online, 2013, 26, 42-49.  | 1.1 | 95        |
| 42 | An ensemble of classifiers based on different texture descriptors for texture classification. Journal of King Saud University - Science, 2013, 25, 235-244.                             | 1.6 | 17        |
| 43 | Matrix based cyclic spectral estimator for fast and robust texture classification. Visual Computer, 2013, 29, 1245-1257.  | 2.5 | 7         |
| 44 | A comparative study on local binary pattern (LBP) based face recognition: LBP histogram versus LBP image. Neurocomputing, 2013, 120, 365-379.   | 3.5 | 142       |
| 45 | Multi-ring local binary patterns for rotation invariant texture classification. Neural Computing and Applications, 2013, 22, 793-802.   | 3.2 | 8         |
| 46 | An effective edge extraction method using improved local binary pattern for blurry digital radiography images. NDT and E International, 2013, 53, 26-30.                                | 1.7 | 15        |
| 47 | Image classification using local binary pattern operators for static images. , 2013, , .  |     | 4         |
| 48 | Multi-structure local binary patterns for texture classification. Pattern Analysis and Applications, 2013, 16, 595-607.   | 3.1 | 16        |
| 49 | Texture Description Through Histograms of Equivalent Patterns. Journal of Mathematical Imaging and Vision, 2013, 45, 76-102.  | 0.8 | 105       |
| 50 | Rotation and noise invariant near-infrared face recognition by means of Zernike moments and spectral regression discriminant analysis. Journal of Electronic Imaging, 2013, 22, 013030. | 0.5 | 22        |
| 51 | Texture analysis using local region contrast. Journal of Electronic Imaging, 2013, 22, 023007.  | 0.5 | 4         |
| 52 | A Texture Feature Ranking Model for Predicting Survival Time of Brain Tumor Patients. , 2013, , .   |     | 4         |
| 53 | 3D LBP-Based Rotationally Invariant Region Description. Lecture Notes in Computer Science, 2013, , 26-37.   | 1.0 | 11        |
| 54 | Classification of colorectal polyp regions in optical projection tomography. , 2013, , .  |     | 5         |
| 55 | An image-based multi-label human protein subcellular localization predictor (<i>Locator</i>) reveals protein mislocalizations in cancer tissues. Bioinformatics, 2013, 29, 2032-2040.   | 1.8 | 56        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 56 | A New Feature Extraction Technique for Person Identification Using Multimodal Biometrics. Research Journal of Applied Sciences, Engineering and Technology, 2014, 8, 1492-1497.   | 0.1 | 1         |
| 57 | Many Local Pattern Texture Features: Which Is Better for Image-Based Multilabel Human Protein Subcellular Localization Classification?. Scientific World Journal, The, 2014, 2014, 1-14.                                  | 0.8 | 3         |
| 58 | A color texture analysis method based on a gravitational approach for classification of the pap-smear database. , 2014, , .   |     | 0         |
| 59 | An improved local binary pattern for edge detection of images. , 2014, , .  |     | 1         |
| 60 | An integrated approach to Content Based Image Retrieval. , 2014, , .  |     | 25        |
| 61 | Inversion of a radiative transfer model for estimation of rice chlorophyll content using support vector machine. , 2014, , .  |     | 2         |
| 62 | Uterus segmentation in dynamic MRI using LBP texture descriptors. , 2014, , .   |     | 2         |
| 63 | RSURF: The efficient texture-based descriptor for fluorescence microscopy images of HEp-2 cells. , 2014, , .  |     | 10        |
| 64 | Texture Image Classification with Improved Weber Local Descriptor. Lecture Notes in Computer Science, 2014, , 684-692.  | 1.0 | 5         |
| 65 | Methodology for fully automated segmentation and plaque characterization in intracoronary optical coherence tomography images. Journal of Biomedical Optics, 2014, 19, 026009.  | 1.4 | 87        |
| 66 | Improving breast mass detection using histogram of oriented gradients. Proceedings of SPIE, 2014, , .   | 0.8 | 11        |
| 67 | Lesion Detection in Breast Ultrasound Images Using Tissue Transition Analysis. , 2014, , .  |     | 1         |
| 68 | Introduction to Local Binary Patterns: New Variants and Applications. Studies in Computational Intelligence, 2014, , 1-13.  | 0.7 | 14        |
| 69 | Scattering features for lung cancer detection in fibered confocal fluorescence microscopy images. Artificial Intelligence in Medicine, 2014, 61, 105-118.   | 3.8 | 23        |
| 70 | Combining LBP Difference and Feature Correlation for Texture Description. IEEE Transactions on Image Processing, 2014, 23, 2557-2568.   | 6.0 | 105       |
| 71 | Local Binary Pattern for automatic detection of Acute Lymphoblastic Leukemia. , 2014, , .   |     | 42        |
| 72 | Automation-assisted cervical cancer screening in manual liquid-based cytology with hematoxylin and eosin staining. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 214-230. | 1.1 | 78        |
| 73 | Ternary encoding based feature extraction for binary text classification. Applied Intelligence, 2014, 41, 310-326.  | 3.3 | 6         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 74 | Concave-convex local binary features for automatic target recognition in infrared imagery. <i>Eurasip Journal on Image and Video Processing</i> , 2014, 2014, .  | 1.7 | 18        |
| 75 | Content-Based Image Retrieval of Axial Brain Slices Using a Novel LBP with a Ternary Encoding. <i>Computer Journal</i> , 2014, 57, 1383-1394.  | 1.5 | 4         |
| 76 | Near infrared face recognition by combining Zernike moments and undecimated discrete wavelet transform. , 2014, 31, 13-27.   |     | 48        |
| 77 | Image-based classification of protein subcellular location patterns in human reproductive tissue by ensemble learning global and local features. <i>Neurocomputing</i> , 2014, 131, 113-123.                                   | 3.5 | 29        |
| 78 | Handwritten Bangla numeral recognition using Local Binary Pattern. , 2015, , .   |     | 49        |
| 79 | Automated image-based protein subcellular location prediction in human reproductive tissue based on ensemble learning global and local patterns. <i>International Journal of Wireless and Mobile Computing</i> , 2015, 8, 367. | 0.1 | 0         |
| 80 | Noise-resistant local binary pattern based on random projection. , 2015, , .   |     | 0         |
| 81 | Two decades of local binary patterns. , 2015, , 175-210.   |     | 43        |
| 82 | Gender and texture classification: A comparative analysis using 13 variants of local binary patterns. <i>Pattern Recognition Letters</i> , 2015, 68, 231-238.  | 2.6 | 33        |
| 83 | Optimizing voting classification using cluster analysis on medical diagnosis data. , 2015, , .   |     | 2         |
| 84 | Performance evaluation of Completed Local Ternary Patterns (CLTP) for medical, scene and event image categorisation. , 2015, , .   |     | 7         |
| 85 | Texture classification using uniform rotation invariant gradient. , 2015, , .  |     | 0         |
| 86 | Efficient data mining for local binary pattern in texture image analysis. <i>Expert Systems With Applications</i> , 2015, 42, 4529-4539.   | 4.4 | 19        |
| 87 | Computer vision for virus image classification. <i>Biosystems Engineering</i> , 2015, 138, 11-22.  | 1.9 | 29        |
| 88 | Discrimination between tumour epithelium and stroma via perception-based features. <i>Neurocomputing</i> , 2015, 154, 119-126.   | 3.5 | 53        |
| 89 | Breast Density Analysis Using an Automatic Density Segmentation Algorithm. <i>Journal of Digital Imaging</i> , 2015, 28, 604-612.  | 1.6 | 40        |
| 90 | Two novel local binary pattern descriptors for texture analysis. <i>Applied Soft Computing Journal</i> , 2015, 34, 728-735.  | 4.1 | 64        |
| 91 | Improved Local Ternary Patterns for Automatic Target Recognition in Infrared Imagery. <i>Sensors</i> , 2015, 15, 6399-6418.  | 2.1 | 18        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 92  | Dominant local binary patterns for texture classification: Labelled or unlabelled?. Pattern Recognition Letters, 2015, 65, 8-14.   | 2.6 | 31        |
| 93  | Cardiac magnetic resonance image-based classification of the risk of arrhythmias in post-myocardial infarction patients. Artificial Intelligence in Medicine, 2015, 64, 205-215.     | 3.8 | 47        |
| 94  | Near infrared face recognition using Zernike moments and Hermite kernels. Information Sciences, 2015, 316, 234-245.  | 4.0 | 55        |
| 95  | Exploring space-frequency co-occurrences via local quantized patterns for texture representation. Pattern Recognition, 2015, 48, 2621-2632.  | 5.1 | 36        |
| 96  | A computer-aided automated methodology for the detection and classification of occlusal caries from photographic color images. Computers in Biology and Medicine, 2015, 62, 119-135. | 3.9 | 46        |
| 97  | A local binary pattern based texture descriptors for classification of tea leaves. Neurocomputing, 2015, 168, 1011-1023.   | 3.5 | 97        |
| 98  | Automatic determination of NET (neutrophil extracellular traps) coverage in fluorescent microscopy images. Bioinformatics, 2015, 31, 2364-2370.                                      | 1.8 | 26        |
| 99  | Local $N \times N$ -Ary Pattern and Its Extension for Texture Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1495-1506.                   | 5.6 | 20        |
| 100 | Image compression techniques using Local Binary Pattern. , 2015, , .   |     | 4         |
| 101 | Globally rotation invariant multi-scale co-occurrence local binary pattern. Image and Vision Computing, 2015, 43, 16-26.   | 2.7 | 33        |
| 102 | Single template object detector based on histogram of oriented gradients. , 2015, , .  |     | 1         |
| 103 | A Gravitational Model for Grayscale Texture Classification Applied to the pap-smear Database. Lecture Notes in Computer Science, 2015, , 332-339.                                    | 1.0 | 1         |
| 104 | Human cell structure-driven model construction for predicting protein subcellular location from biological images. Bioinformatics, 2016, 32, 114-121.                                | 1.8 | 22        |
| 105 | The Mesh-LBP: A Framework for Extracting Local Binary Patterns From Discrete Manifolds. IEEE Transactions on Image Processing, 2015, 24, 220-235.                                    | 6.0 | 53        |
| 106 | Automated lung cancer detection by the analysis of glandular cells in sputum cytology images using scale space features. Signal, Image and Video Processing, 2015, 9, 851-863.       | 1.7 | 11        |
| 107 | Background suppressing Gabor energy filtering. Pattern Recognition Letters, 2015, 52, 40-47.   | 2.6 | 9         |
| 108 | Effective texture classification by texton encoding induced statistical features. Pattern Recognition, 2015, 48, 447-457.  | 5.1 | 37        |
| 109 | Noise Tolerant Histogram Voting for Gender Classification Based on LBP. IS&T International Symposium on Electronic Imaging, 2016, 28, 1-6.   | 0.3 | 0         |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 110 | Texture Descriptors Ensembles Enable Image-Based Classification of Maturation of Human Stem Cell-Derived Retinal Pigmented Epithelium. PLoS ONE, 2016, 11, e0149399.                                  | 1.1  | 16        |
| 111 | Directional local ternary quantized extrema pattern: A new descriptor for biomedical image indexing and retrieval. Engineering Science and Technology, an International Journal, 2016, 19, 1895-1909. | 2.0  | 28        |
| 112 | Abnormal mass classification in breast mammography using rotation invariant LBP. , 2016, , .  |      | 4         |
| 113 | Document Image Retrieval Based on Texture Features: A Recognition-Free Approach. , 2016, , .  |      | 3         |
| 114 | Classifying digital X-ray images into different human body parts. , 2016, , .   |      | 3         |
| 115 | Capturing correlations of local features for image representation. Neurocomputing, 2016, 184, 99-106.   | 3.5  | 33        |
| 116 | An investigation on the use of local multi-resolution patterns for image classification. Information Sciences, 2016, 361-362, 1-13.   | 4.0  | 18        |
| 117 | Finger Vein Recognition via Local Multilayer Ternary Pattern. Lecture Notes in Computer Science, 2016, , 271-278.   | 1.0  | 0         |
| 118 | Topological Attribute Patterns for texture recognition. Pattern Recognition Letters, 2016, 80, 91-97.   | 2.6  | 17        |
| 119 | Binary codes for tagging x-ray images via deep de-noising autoencoders. , 2016, , .   |      | 8         |
| 120 | LBP features for breast cancer detection. , 2016, , .   |      | 31        |
| 121 | Detection of Alzheimer's disease using advanced local binary pattern from hippocampus and whole brain of MR images. , 2016, , .   |      | 26        |
| 122 | Fuzzy threshold-based uniform local binary patterns for hyperspectral imagery classification. , 2016, , .   |      | 3         |
| 123 | Near infrared face recognition: A literature survey. Computer Science Review, 2016, 21, 1-17.   | 10.2 | 27        |
| 124 | Discriminative local binary pattern. Machine Vision and Applications, 2016, 27, 1175-1186.  | 1.7  | 2         |
| 125 | Fruit bruise detection based on 3D meshes and machine learning technologies. Proceedings of SPIE, 2016, , .   | 0.8  | 0         |
| 126 | Biomedical Image Indexing and Retrieval Descriptors: A Comparative Study. Procedia Computer Science, 2016, 85, 954-961.   | 1.2  | 10        |
| 127 | Learnable high-order MGRF models for contrast-invariant texture recognition. Computer Vision and Image Understanding, 2016, 143, 135-146.   | 3.0  | 2         |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 128 | Multilayer descriptors for medical image classification. Computers in Biology and Medicine, 2016, 72, 239-247.  | 3.9 | 11        |
| 129 | LBP operators on curvelet coefficients as an algorithm to describe texture in breast cancer tissues. Expert Systems With Applications, 2016, 55, 329-340.   | 4.4 | 59        |
| 130 | Median Robust Extended Local Binary Pattern for Texture Classification. IEEE Transactions on Image Processing, 2016, 25, 1368-1381.   | 6.0 | 321       |
| 131 | Local tri-directional patterns: A new texture feature descriptor for image retrieval. , 2016, 51, 62-72.  |     | 87        |
| 132 | Robust Texture Image Representation by Scale Selective Local Binary Patterns. IEEE Transactions on Image Processing, 2016, 25, 687-699.   | 6.0 | 107       |
| 133 | Statistical binary patterns for rotational invariant texture classification. Neurocomputing, 2016, 173, 1565-1577.  | 3.5 | 56        |
| 134 | Scalable gastroscopic video summarization via similar-inhibition dictionary selection. Artificial Intelligence in Medicine, 2016, 66, 1-13.   | 3.8 | 31        |
| 135 | Retinal Disease Screening Through Local Binary Patterns. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 184-192.  | 3.9 | 57        |
| 136 | Content-Adaptive Region-Based Color Texture Descriptors for Medical Images. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 162-171.   | 3.9 | 23        |
| 137 | A texture-based rolling bearing fault diagnosis scheme using adaptive optimal kernel time frequency representation and uniform local binary patterns. Measurement Science and Technology, 2017, 28, 035903.                                 | 1.4 | 9         |
| 138 | Local binary circumferential and radial derivative pattern for texture classification. Pattern Recognition, 2017, 67, 213-229.  | 5.1 | 31        |
| 139 | Recognition of natural ice types on in-service glass insulators based on texture feature descriptor. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 535-542.   | 1.8 | 32        |
| 140 | Deep model-based feature extraction for predicting protein subcellular localizations from bio-images. Frontiers of Computer Science, 2017, 11, 243-252.   | 1.6 | 16        |
| 141 | Application of local binary pattern and human visual Fibonacci texture features for classification different medical images. , 2017, , .  |     | 0         |
| 142 | Image Analysis and Recognition. Lecture Notes in Computer Science, 2017, , .  | 1.0 | 12        |
| 143 | DeepPap: Deep Convolutional Networks for Cervical Cell Classification. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1633-1643.  | 3.9 | 317       |
| 144 | Maximal similarity based region classification method through local image region descriptors and Bhattacharyya coefficient-based distance: Application to horizon line detection using wide-angle camera. Neurocomputing, 2017, 265, 28-41. | 3.5 | 8         |
| 145 | Spotting L3 slice in CT scans using deep convolutional network and transfer learning. Computers in Biology and Medicine, 2017, 87, 95-103.  | 3.9 | 51        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 146 | Multi-gradient features and elongated quinary pattern encoding for image-based facial expression recognition. <i>Pattern Recognition</i> , 2017, 71, 249-263.   | 5.1 | 30        |
| 147 | Classification of cardiovascular tissues using LBP based descriptors and a cascade SVM. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 147, 1-10.  | 2.6 | 26        |
| 148 | An ensemble of visual features for Gaussians of local descriptors and non-binary coding for texture descriptors. <i>Expert Systems With Applications</i> , 2017, 82, 27-39.   | 4.4 | 9         |
| 150 | Keypoints Detection and Feature Extraction: A Dynamic Genetic Programming Approach for Evolving Rotation-Invariant Texture Image Descriptors. <i>IEEE Transactions on Evolutionary Computation</i> , 2017, 21, 825-844. | 7.5 | 56        |
| 151 | A Novel Method for Describing Texture of Scar Collagen Using Second Harmonic Generation Images. <i>IEEE Photonics Journal</i> , 2017, 9, 1-13.  | 1.0 | 2         |
| 152 | A comparative study of using the LBC format for compressing medical images. , 2017, , .   |     | 0         |
| 153 | Performance Analysis of Statistical Pattern Recognition Methods in KEEL. <i>Procedia Computer Science</i> , 2017, 112, 2022-2030.   | 1.2 | 4         |
| 154 | An improved edge detection approach and its application in defect detection. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 244, 012017.   | 0.3 | 8         |
| 155 | Automatic Classification of Cancerous Tissue in Laserendomicroscopy Images of the Oral Cavity using Deep Learning. <i>Scientific Reports</i> , 2017, 7, 11979.  | 1.6 | 194       |
| 156 | Random Sampling Local Binary Pattern Encoding Based on Gaussian Distribution. <i>IEEE Signal Processing Letters</i> , 2017, 24, 1358-1362.  | 2.1 | 13        |
| 157 | Local quantized extrema quinary pattern: a new descriptor for biomedical image indexing and retrieval. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2017, , 1-17.    | 1.3 | 7         |
| 158 | Local binary features for texture classification: Taxonomy and experimental study. <i>Pattern Recognition</i> , 2017, 62, 135-160.  | 5.1 | 291       |
| 159 | Classification of diabetic retinopathy using textural features in retinal color fundus image. , 2017, , .   |     | 7         |
| 160 | Content-Based Image Retrieval Techniques: A Review. , 2017, , 29-48.  |     | 15        |
| 161 | Generating Cancelable Palmprint Templates Using Local Binary Pattern and Random Projection. , 2017, , .   |     | 8         |
| 162 | A Review of Texture Classification Methods and Databases. , 2017, , .   |     | 25        |
| 163 | Classification and Retrieval of Digital Pathology Scans: A New Dataset. , 2017, , .   |     | 33        |
| 164 | Fast local binary pattern: Application to document image retrieval. , 2017, , .   |     | 1         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 165 | Image processing and machine learning applied for condition monitoring of 11-kV power distribution line insulators using curvelet and LTP features. , 2017, , .  |     | 3         |
| 166 | Performance Analysis of Local Binary Pattern Features with PCA for Face Recognition. Indian Journal of Science and Technology, 2017, 10, 1-10.   | 0.5 | 2         |
| 167 | Identification of Bruised Apples Using a 3-D Multi-Order Local Binary Patterns Based Feature Extraction Algorithm. IEEE Access, 2018, 6, 34846-34862.  | 2.6 | 11        |
| 168 | Medical Image Classification with Hand-Designed or Machine-Designed Texture Descriptors: A Performance Evaluation. Lecture Notes in Computer Science, 2018, , 266-275.   | 1.0 | 14        |
| 169 | Local directional ternary pattern: A New texture descriptor for texture classification. Computer Vision and Image Understanding, 2018, 169, 14-27.   | 3.0 | 64        |
| 170 | Efficient computational model for classification of protein localization images using Extended Threshold Adjacency Statistics and Support Vector Machines. Computer Methods and Programs in Biomedicine, 2018, 157, 205-215. | 2.6 | 10        |
| 171 | Randomized Neural Network Based Signature for Classification of Titanium Alloy Microstructures. Lecture Notes in Computer Science, 2018, , 669-676.  | 1.0 | 1         |
| 172 | Pap-smear Image Classification Using Randomized Neural Network Based Signature. Lecture Notes in Computer Science, 2018, , 677-684.  | 1.0 | 2         |
| 173 | Repulsive-and-attractive local binary gradient contours: New and efficient feature descriptors for texture classification. Information Sciences, 2018, 467, 634-653.   | 4.0 | 44        |
| 174 | Texture and Gene Expression Analysis of the MRI Brain in Detection of Alzheimer's Disease. Journal of Artificial Intelligence and Soft Computing Research, 2018, 8, 111-120.   | 3.5 | 12        |
| 175 | Accessible Melanoma Detection Using Smartphones and Mobile Image Analysis. IEEE Transactions on Multimedia, 2018, 20, 2849-2864.   | 5.2 | 50        |
| 176 | Biomedical image retrieval using microscopic configuration with local structural information. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.  | 0.8 | 2         |
| 177 | Local mesh ternary patterns: a new descriptor for MRI and CT biomedical image indexing and retrieval. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 155-169.              | 1.3 | 11        |
| 178 | Quantitative analysis of cervical texture by ultrasound in mid-pregnancy and association with spontaneous preterm birth. Ultrasound in Obstetrics and Gynecology, 2018, 51, 637-643.   | 0.9 | 22        |
| 179 | An Organelle Correlation-Guided Feature Selection Approach for Classifying Multi-Label Subcellular Bio-Images. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 828-838.                         | 1.9 | 16        |
| 180 | Local contourlet tetra pattern for image retrieval. Signal, Image and Video Processing, 2018, 12, 591-598.   | 1.7 | 13        |
| 181 | Large-scale retrieval for medical image analytics: A comprehensive review. Medical Image Analysis, 2018, 43, 66-84.  | 7.0 | 151       |
| 182 | 2D and 3D texture analysis to differentiate brain metastases on MR images: proceed with caution. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 285-294.  | 1.1 | 22        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 183 | Parallel deep solutions for image retrieval from imbalanced medical imaging archives. Applied Soft Computing Journal, 2018, 63, 197-205.                                       | 4.1  | 49        |
| 184 | Machine learning in pain research. Pain, 2018, 159, 623-630.   | 2.0  | 122       |
| 185 | A Review of Automated Pain Assessment in Infants: Features, Classification Tasks, and Databases. IEEE Reviews in Biomedical Engineering, 2018, 11, 77-96.                      | 13.1 | 58        |
| 186 | Local Concave-and-Convex Micro-Structure Patterns for texture classification. Pattern Recognition, 2018, 76, 303-322.  | 5.1  | 53        |
| 187 | ULBP-RF: A Hybrid Approach for Malware Image Classification. , 2018, , .   |      | 4         |
| 188 | Content Based Image Retrieval Using Wavelet Moments and Local Binary Patterns in CIE-L*a*b* Color Space. , 2018, , .   |      | 1         |
| 189 | Improving the Performance of Spiral Local Binary Pattern Using Edge Information. , 2018, , .   |      | 0         |
| 190 | pyHIVE, a health-related image visualization and engineering system using Python. BMC Bioinformatics, 2018, 19, 452.   | 1.2  | 5         |
| 191 | DeepCerv: Deep Neural Network for Segmentation Free Robust Cervical Cell Classification. Lecture Notes in Computer Science, 2018, , 86-94.                                     | 1.0  | 10        |
| 192 | A comprehensive review of fruit and vegetable classification techniques. Image and Vision Computing, 2018, 80, 24-44.  | 2.7  | 117       |
| 193 | Local spatio-temporal encoding of raw perfusion MRI for the prediction of final lesion in stroke. Medical Image Analysis, 2018, 50, 117-126.                                   | 7.0  | 23        |
| 194 | Thin Cap Fibroatheroma Detection in Virtual Histology Images Using Geometric and Texture Features. Applied Sciences (Switzerland), 2018, 8, 1632.                              | 1.3  | 6         |
| 195 | Breast Tissue Classification Using Local Binary Pattern Variants: A Comparative Study. Communications in Computer and Information Science, 2018, , 143-152.                    | 0.4  | 6         |
| 196 | Review on Local Feature Descriptors for Early Detection of Alzheimer's Disease. , 2018, , .  |      | 2         |
| 197 | An intelligent vision-based approach for helmet identification for work safety. Computers in Industry, 2018, 100, 267-277.   | 5.7  | 62        |
| 198 | Histogram-based local descriptors for facial expression recognition (FER): A comprehensive study. Journal of Visual Communication and Image Representation, 2018, 55, 331-341. | 1.7  | 63        |
| 199 | TriZ-a rotation-tolerant image feature and its application in endoscope-based disease diagnosis. Computers in Biology and Medicine, 2018, 99, 182-190.                         | 3.9  | 15        |
| 200 | Local Neighborhood Intensity Pattern—a new texture feature descriptor for image retrieval. Expert Systems With Applications, 2018, 113, 100-115.                               | 4.4  | 65        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 201 | Breast Density Classification Using Local Quinary Patterns with Various Neighbourhood Topologies. Journal of Imaging, 2018, 4, 14.  | 1.7 | 52        |
| 202 | Some variants of spiral LBP in texture recognition. IET Image Processing, 2018, 12, 1388-1393.  | 1.4 | 9         |
| 203 | Modeling of facial aging and kinship: A survey. Image and Vision Computing, 2018, 80, 58-79.  | 2.7 | 20        |
| 204 | Local curve pattern for content-based image retrieval. Pattern Analysis and Applications, 2019, 22, 1233-1242.  | 3.1 | 11        |
| 205 | An investigation of CNN models for differentiating malignant from benign lesions using small pathologically proven datasets. Computerized Medical Imaging and Graphics, 2019, 77, 101645.                           | 3.5 | 34        |
| 206 | Pap smear classification using combination of global significant value, texture statistical features and time series features. Multimedia Tools and Applications, 2019, 78, 31121-31136.                            | 2.6 | 35        |
| 207 | Learning sparse discriminant low-rank features for low-resolution face recognition. Journal of Visual Communication and Image Representation, 2019, 63, 102590.   | 1.7 | 7         |
| 208 | A novel and accurate chess pattern for automated texture classification. Physica A: Statistical Mechanics and Its Applications, 2019, 536, 122584.  | 1.2 | 13        |
| 209 | Analytics-statistics mixed training and its fitness to semisupervised manufacturing. PLoS ONE, 2019, 14, e0220607.  | 1.1 | 4         |
| 210 | MIC_Locator: a novel image-based protein subcellular location multi-label prediction model based on multi-scale monogenic signal representation and intensity encoding strategy. BMC Bioinformatics, 2019, 20, 522. | 1.2 | 17        |
| 211 | Hybrid feature vector based detection of Glaucoma. Multimedia Tools and Applications, 2019, 78, 34247-34276.  | 2.6 | 9         |
| 212 | Integrating Five Feature Types Extracted From Ultrasonograms to Improve the Prediction of Thyroid Papillary Carcinoma. IEEE Access, 2019, 7, 101820-101828.   | 2.6 | 3         |
| 213 | Breast Density Classification using Local Septenary Patterns: A Multi-resolution and Multi-topology Approach. , 2019, , .   |     | 5         |
| 214 | Multi-modal Fusion Based Automatic Pain Assessment. , 2019, , .   |     | 2         |
| 215 | A Convolutional Neural Network for the automatic diagnosis of collagen VI-related muscular dystrophies. Applied Soft Computing Journal, 2019, 85, 105772.   | 4.1 | 5         |
| 216 | Fluorescence microscopy image classification of 2D HeLa cells based on the CapsNet neural network. Medical and Biological Engineering and Computing, 2019, 57, 1187-1198.   | 1.6 | 22        |
| 217 | LBP-Motivated Colour Texture Classification. Lecture Notes in Computer Science, 2019, , 517-533.  | 1.0 | 1         |
| 218 | An improved local binary pattern based edge detection algorithm for noisy images. Journal of Intelligent and Fuzzy Systems, 2019, 36, 2043-2054.  | 0.8 | 15        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 219 | Fine-Grained Classification of Cervical Cells Using Morphological and Appearance Based Convolutional Neural Networks. IEEE Access, 2019, 7, 71541-71549.                                     | 2.6 | 74        |
| 220 | Robust Adaptive Median Binary Pattern for Noisy Texture Classification and Retrieval. IEEE Transactions on Image Processing, 2019, 28, 5407-5418.  | 6.0 | 31        |
| 221 | Automatic detection of intracranial aneurysm using LBP and Fourier descriptor in angiographic images. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1353-1364. | 1.7 | 8         |
| 222 | A Survey on an Emerging Area: Deep Learning for Smart City Data. IEEE Transactions on Emerging Topics in Computational Intelligence, 2019, 3, 392-410.                                       | 3.4 | 97        |
| 224 | Comparative Study on Local Binary Patterns for Mammographic Density and Risk Scoring. Journal of Imaging, 2019, 5, 24.   | 1.7 | 25        |
| 225 | Feature Extraction of Normalized Colorectal Cancer Histopathology Images. Advances in Intelligent Systems and Computing, 2019, , 473-486.  | 0.5 | 2         |
| 226 | A novel neural network based image descriptor for texture classification. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 120955.  | 1.2 | 10        |
| 227 | Automatic Identification of Acute Lymphoblastic Leukemia on Blood Cell An image Using Geometric Features. IOP Conference Series: Materials Science and Engineering, 2019, 462, 012018.       | 0.3 | 2         |
| 228 | Medical Imaging using Machine Learning and Deep Learning Algorithms: A Review. , 2019, , .   |     | 89        |
| 229 | Deep learning and transfer learning features for plankton classification. Ecological Informatics, 2019, 51, 33-43.   | 2.3 | 117       |
| 230 | Texture image Classification based on improved local Quinary patterns. Multimedia Tools and Applications, 2019, 78, 18995-19018.   | 2.6 | 33        |
| 231 | Constrained Nonnegative Matrix Factorization for Image-based Protein Subcellular Localization Prediction. , 2019, , .  |     | 0         |
| 232 | Generic Isolated Cell Image Generator. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 1198-1206.  | 1.1 | 8         |
| 233 | Description of breast density based on a homogeneity representation. , 2019, , .   |     | 0         |
| 234 | Machine Learning-Based Classification of the Health State of Mice Colon in Cancer Study from Confocal Laser Endomicroscopy. Scientific Reports, 2019, 9, 20010.                              | 1.6 | 8         |
| 235 | CNN-Based Refactoring of Hand-Designed Filters for Texture Analysis: A Classic Revisited. IEEE Access, 2019, 7, 173076-173085.   | 2.6 | 3         |
| 236 | Attractive-and-repulsive center-symmetric local binary patterns for texture classification. Engineering Applications of Artificial Intelligence, 2019, 78, 158-172.                          | 4.3 | 62        |
| 237 | Counting local n-ary patterns. Pattern Recognition Letters, 2019, 117, 24-29.  | 2.6 | 3         |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 238 | Texture descriptors for representing feature vectors. Expert Systems With Applications, 2019, 122, 163-172.   | 4.4  | 3         |
| 239 | A dynamic threshold-based local mesh ternary pattern technique for biomedical image retrieval. International Journal of Imaging Systems and Technology, 2019, 29, 168-179.                                  | 2.7  | 4         |
| 240 | From BoW to CNN: Two Decades of Texture Representation for Texture Classification. International Journal of Computer Vision, 2019, 127, 74-109.   | 10.9 | 247       |
| 242 | A novel binary feature descriptor to discriminate normal and abnormal chest CT images using dissimilarity measures. Pattern Analysis and Applications, 2019, 22, 1517-1526.                                 | 3.1  | 8         |
| 243 | Texture Feature Extraction Methods: A Survey. IEEE Access, 2019, 7, 8975-9000.  | 2.6  | 276       |
| 244 | DLGBD: A directional local gradient based descriptor for face recognition. Multimedia Tools and Applications, 2019, 78, 15909-15928.  | 2.6  | 9         |
| 245 | A comparative study of different texture features for document image retrieval. Expert Systems With Applications, 2019, 121, 97-114.  | 4.4  | 21        |
| 246 | Clinical Feasibility of Quantitative Ultrasound Texture Analysis: A Robustness Study Using Fetal Lung Ultrasound Images. Journal of Ultrasound in Medicine, 2019, 38, 1459-1476.                            | 0.8  | 9         |
| 247 | Local binary patterns for noise-tolerant sEMG classification. Signal, Image and Video Processing, 2019, 13, 491-498.  | 1.7  | 10        |
| 248 | Classification of PASCAL Dataset Using Local Features and Neural Network. Advances in Intelligent Systems and Computing, 2019, , 389-400.   | 0.5  | 0         |
| 249 | Bioimage Classification with Handcrafted and Learned Features. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 874-885.  | 1.9  | 29        |
| 250 | Decision-level fusion scheme for nasopharyngeal carcinoma identification using machine learning techniques. Neural Computing and Applications, 2020, 32, 625-638.   | 3.2  | 81        |
| 251 | Dynamic Texture Segmentation Approaches for Natural and Manmade Cases: Survey and Experimentation. Archives of Computational Methods in Engineering, 2020, 27, 285-297.                                     | 6.0  | 1         |
| 252 | On the use of ear and profile faces for distinguishing identical twins and nontwins. Expert Systems, 2020, 37, e12389.  | 2.9  | 5         |
| 253 | Bioimage-Based Prediction of Protein Subcellular Location in Human Tissue with Ensemble Features and Deep Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 17, 1966-1980. | 1.9  | 16        |
| 254 | A novel feature descriptor for image retrieval by combining modified color histogram and diagonally symmetric co-occurrence texture pattern. Pattern Analysis and Applications, 2020, 23, 703-723.          | 3.1  | 41        |
| 255 | Noise-tolerant texture feature extraction through directional thresholded local binary pattern. Visual Computer, 2020, 36, 967-987.   | 2.5  | 14        |
| 256 | Local bit-plane decoded convolutional neural network features for biomedical image retrieval. Neural Computing and Applications, 2020, 32, 7539-7551.   | 3.2  | 23        |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 257 | Multiple writer retrieval systems based on language independent dissimilarity learning. Expert Systems With Applications, 2020, 143, 113023.   | 4.4 | 5         |
| 258 | A Multiscale Hierarchical Threshold-Based Completed Local Entropy Binary Pattern for Texture Classification. Cognitive Computation, 2020, 12, 224-237.   | 3.6 | 8         |
| 259 | Source Printer Classification Using Printer Specific Local Texture Descriptor. IEEE Transactions on Information Forensics and Security, 2020, 15, 160-171.   | 4.5 | 12        |
| 260 | Classification of CT Scan Images of Lungs Using Deep Convolutional Neural Network with External Shape-Based Features. Journal of Digital Imaging, 2020, 33, 252-261.                                   | 1.6 | 8         |
| 261 | Local gradient of gradient pattern: a robust image descriptor for the classification of brain strokes from computed tomography images. Pattern Analysis and Applications, 2020, 23, 797-817.           | 3.1 | 16        |
| 262 | ShapeWordle: Tailoring Wordles using Shape-aware Archimedean Spirals. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 991-1000.  | 2.9 | 8         |
| 263 | Short-Term Person Re-identification Using RGB, Depth and Skeleton Information of RGB-D Sensors. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2020, 44, 669-681. | 1.5 | 7         |
| 264 | Survey on deep learning for pulmonary medical imaging. Frontiers of Medicine, 2020, 14, 450-469.   | 1.5 | 61        |
| 265 | A Class-Independent Texture-Separation Method Based on a Pixel-Wise Binary Classification. Sensors, 2020, 20, 5432.  | 2.1 | 2         |
| 266 | The Influence of CLBP Window Size on Urban Vegetation Type Classification Using High Spatial Resolution Satellite Images. Remote Sensing, 2020, 12, 3393.  | 1.8 | 3         |
| 267 | Using an ontology of the human cardiovascular system to improve the classification of histological images. Scientific Reports, 2020, 10, 12276.  | 1.6 | 4         |
| 268 | Improving Computer-Aided Cervical Cells Classification Using Transfer Learning Based Snapshot Ensemble. Applied Sciences (Switzerland), 2020, 10, 7292.  | 1.3 | 18        |
| 269 | A completed local shrinkage pattern for texture classification. Applied Soft Computing Journal, 2020, 97, 106830.  | 4.1 | 8         |
| 270 | New local binary pattern approaches based on color channels in texture classification. Multimedia Tools and Applications, 2020, 79, 32541-32561.   | 2.6 | 8         |
| 271 | Directional Neighborhood Topologies Based Multi-Scale Quinary Pattern for Texture Classification. IEEE Access, 2020, 8, 212233-212246.   | 2.6 | 5         |
| 272 | An Automatic Mass Screening System for Cervical Cancer Detection Based on Convolutional Neural Network. Mathematical Problems in Engineering, 2020, 2020, 1-14.  | 0.6 | 8         |
| 273 | COVID-19 identification in chest X-ray images on flat and hierarchical classification scenarios. Computer Methods and Programs in Biomedicine, 2020, 194, 105532.                                      | 2.6 | 354       |
| 274 | Towards more discriminative features for texture recognition. Pattern Recognition, 2020, 107, 107473.  | 5.1 | 5         |



| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 275 | Breast density classification in mammograms: An investigation of encoding techniques in binary-based local patterns. <i>Computers in Biology and Medicine</i> , 2020, 122, 103842.  | 3.9  | 17        |
| 276 | O3S-MTP: Oriented star sampling structure based multi-scale ternary pattern for texture classification. <i>Signal Processing: Image Communication</i> , 2020, 84, 115830.   | 1.8  | 6         |
| 277 | A Survey for Cervical Cytopathology Image Analysis Using Deep Learning. <i>IEEE Access</i> , 2020, 8, 61687-61710.  | 2.6  | 77        |
| 278 | The top 100 most cited articles in medical artificial intelligence: a bibliometric analysis. <i>Journal of Medical Artificial Intelligence</i> , 2020, 3, 3-3.  | 1.1  | 5         |
| 279 | Multi-Resolution Intrinsic Texture Geometry-Based Local Binary Pattern for Texture Classification. <i>IEEE Access</i> , 2020, 8, 54415-54430.   | 2.6  | 25        |
| 280 | Fractional Local Neighborhood Intensity Pattern for Image Retrieval using Genetic Algorithm. <i>Multimedia Tools and Applications</i> , 2020, 79, 18527-18552.  | 2.6  | 11        |
| 281 | Quaternary Census Transform Based on the Human Visual System for Stereo Matching. <i>IEEE Access</i> , 2020, 8, 116501-116514.  | 2.6  | 7         |
| 282 | Data fusion strategies for energy efficiency in buildings: Overview, challenges and novel orientations. <i>Information Fusion</i> , 2020, 64, 99-120.   | 11.7 | 46        |
| 283 | Application of Texture Descriptors to Facial Emotion Recognition in Infants. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1115.  | 1.3  | 9         |
| 284 | Retrieval of colour and texture images using local directional peak valley binary pattern. <i>Pattern Analysis and Applications</i> , 2020, 23, 1569-1585.  | 3.1  | 28        |
| 285 | Classification of retinal fundus image using MS-DRLBP features and CNN-RBF classifier. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 8747-8762.  | 3.3  | 9         |
| 286 | Density map and fuzzy classification for breast density by using BI-RADS. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 200, 105825.  | 2.6  | 6         |
| 287 | Robust Texture Features For Emphysema Classification In CT Images. , 2021, , .  |      | 5         |
| 288 | Automatic Classification of Cervical Cells Using Deep Learning Method. <i>IEEE Access</i> , 2021, 9, 32559-32568.   | 2.6  | 25        |
| 289 | An Efficient Gabor Walsh-Hadamard Transform Based Approach for Retrieving Brain Tumor Images From MRI. <i>IEEE Access</i> , 2021, 9, 119078-119089.   | 2.6  | 12        |
| 290 | Texture Analysis and Its Applications in Biomedical Imaging: A Survey. <i>IEEE Reviews in Biomedical Engineering</i> , 2022, 15, 222-246.   | 13.1 | 23        |
| 291 | T2-weighted magnetic resonance imaging texture as predictor of low back pain: A texture analysis-based classification pipeline to symptomatic and asymptomatic cases. <i>Journal of Orthopaedic Research</i> , 2021, 39, 2428-2438. | 1.2  | 11        |
| 292 | Two-Stage Selective Ensemble of CNN via Deep Tree Training for Medical Image Classification. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 9194-9207.   | 6.2  | 34        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 293 | Trial by trial EEG based BCI for distress versus non distress classification in individuals with ASD. Scientific Reports, 2021, 11, 6000.  | 1.6 | 13        |
| 294 | Cyclist Effort Features: A Novel Technique for Image Texture Characterization Applied to Larynx Cancer Classification in Contact Endoscopy”Narrow Band Imaging. Diagnostics, 2021, 11, 432.                | 1.3 | 8         |
| 296 | Image retrieval based on texture using latent space representation of discrete Fourier transformed maps. Neural Computing and Applications, 2021, 33, 13301-13316.   | 3.2 | 4         |
| 297 | Using handpicked features in conjunction with ResNet-50 for improved detection of COVID-19 from chest X-ray images. Chaos, Solitons and Fractals, 2021, 145, 110749.                                       | 2.5 | 66        |
| 298 | Ensemble Learner for Covid-19 from Lung X-Ray Images. Journal of Physics: Conference Series, 2021, 1878, 012060.   | 0.3 | 0         |
| 299 | Coronary Plaque Characterization From Optical Coherence Tomography Imaging With a Two-Pathway Cascade Convolutional Neural Network Architecture. Frontiers in Cardiovascular Medicine, 2021, 8, 670502.    | 1.1 | 4         |
| 300 | Extreme Learning Machine based Differentiation of Pulmonary Tuberculosis in Chest Radiographs using Integrated Local Feature Descriptors. Computer Methods and Programs in Biomedicine, 2021, 204, 106058. | 2.6 | 15        |
| 301 | Combining Spectral and Texture Features of UAV Images for the Remote Estimation of Rice LAI throughout the Entire Growing Season. Remote Sensing, 2021, 13, 3001.  | 1.8 | 35        |
| 302 | A compact multi-pattern encoding descriptor for texture classification. , 2021, 114, 103081.   |     | 10        |
| 303 | Early detection of Alzheimer’s disease using local binary pattern and convolutional neural network. Multimedia Tools and Applications, 2021, 80, 29585-29600.  | 2.6 | 9         |
| 304 | Automated detection of glaucoma using elongated quinary patterns technique with optical coherence tomography angiogram images. Biomedical Signal Processing and Control, 2021, 69, 102895.                 | 3.5 | 3         |
| 305 | Grayscale-inversion and rotation invariant image description with sorted LBP features. Signal Processing: Image Communication, 2021, 99, 116491.   | 1.8 | 7         |
| 306 | Lightweight convolutional neural network with knowledge distillation for cervical cells classification. Biomedical Signal Processing and Control, 2022, 71, 103177.  | 3.5 | 25        |
| 307 | RADIoT: The Unifying Framework for IoT, Radiomics and Deep Learning Modeling. Intelligent Systems Reference Library, 2021, , 109-128.  | 1.0 | 9         |
| 308 | Automated Pain Assessment in Children Using Electrodermal Activity and Video Data Fusion via Machine Learning. IEEE Transactions on Biomedical Engineering, 2022, 69, 422-431.                             | 2.5 | 15        |
| 310 | Emotion Recognition to Improve e-Healthcare Systems in Smart Cities. Springer Proceedings in Complexity, 2019, , 245-254.  | 0.2 | 9         |
| 311 | Face Recognition Based on Adaptive Soft Histogram Local Binary Patterns. Lecture Notes in Computer Science, 2013, , 62-70.   | 1.0 | 5         |
| 312 | Research of Improved Algorithm Based on LBP for Face Recognition. Lecture Notes in Computer Science, 2014, , 111-119.  | 1.0 | 4         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 313 | Face and Facial Expressions Recognition and Analysis. Human-computer Interaction Series, 2016, , 3-29.   | 0.4 | 4         |
| 315 | Tissues Classification of the Cardiovascular System Using Texture Descriptors. Communications in Computer and Information Science, 2017, , 123-132.                                      | 0.4 | 4         |
| 317 | Efficient Image Appearance Description Using Dense Sampling Based Local Binary Patterns. Lecture Notes in Computer Science, 2013, , 375-388.   | 1.0 | 13        |
| 318 | Texture Description with Completed Local Quantized Patterns. Lecture Notes in Computer Science, 2013, , 1-10.  | 1.0 | 11        |
| 319 | A Unifying Framework for LBP and Related Methods. Studies in Computational Intelligence, 2014, , 17-46.  | 0.7 | 7         |
| 320 | The Geometric Local Textural Patterns (GLTP). Studies in Computational Intelligence, 2014, , 85-112.   | 0.7 | 2         |
| 321 | Local Configuration Features and Discriminative Learnt Features for Texture Description. Studies in Computational Intelligence, 2014, , 113-129.   | 0.7 | 5         |
| 322 | On the Robustness of Color Texture Descriptors across Illuminants. Lecture Notes in Computer Science, 2013, , 652-662.   | 1.0 | 4         |
| 323 | Texture Features for the Detection of Acute Lymphoblastic Leukemia. Advances in Intelligent Systems and Computing, 2016, , 535-543.  | 0.5 | 18        |
| 324 | Covid-19 Classification Based on Gray-Level Co-occurrence Matrix and Support Vector Machine. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 47-55.           | 0.5 | 11        |
| 325 | Prediction of COVID-19 Using Genetic Deep Learning Convolutional Neural Network (GDCNN). IEEE Access, 2020, 8, 177647-177666.  | 2.6 | 80        |
| 326 | Combining fine texture and coarse color features for color texture classification. Journal of Electronic Imaging, 2017, 26, 1.   | 0.5 | 36        |
| 327 | Improved opponent color local binary patterns: an effective local image descriptor for color texture classification. Journal of Electronic Imaging, 2017, 27, 1.                         | 0.5 | 35        |
| 328 | Confident texture-based laryngeal tissue classification for early stage diagnosis support. Journal of Medical Imaging, 2017, 4, 1.   | 0.8 | 51        |
| 329 | Convolutional neural network based automatic plaque characterization for intracoronary optical coherence tomography images. , 2018, , .  |     | 16        |
| 330 | Mammogram breast density classification using mean-elliptical local binary patterns. , 2018, , .   |     | 4         |
| 331 | An Overview and Research Perspective of Local Binary Pattern. Journal of Image and Signal Processing, 2016, 05, 121-146.   | 0.1 | 1         |
| 332 | Identification of Thyroid Cancerous Nodule using Local Binary Pattern Variants in Ultrasound Images. SSRG International Journal of Engineering Trends and Technology, 2017, 49, 369-374. | 0.3 | 2         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 333 | Impact of LBP Topologies as Texture Descriptors on Ethnicity Identification. Journal of Zankoy Sulaimani - Part A, 2016, 18, 207-218.  | 0.1 | 2         |
| 334 | WAVELET BASED SEGMENTATION USING OPTIMAL STATISTICAL FEATURES ON BREAST IMAGES. ICTACT Journal on Image and Video Processing, 2014, 4, 853-857.  | 0.2 | 4         |
| 335 | An improved hyper smoothing function based edge detection algorithm for noisy images. Journal of Intelligent and Fuzzy Systems, 2020, 38, 6325-6335.   | 0.8 | 12        |
| 336 | An Image Matching Algorithm Based on SCCH Feature Descriptor. Dianzi Yu Xixi Xuebao/Journal of Electronics and Information Technology, 2011, 33, 2152-2157.                                    | 0.1 | 3         |
| 337 | Antibody-supervised deep learning for quantification of tumor-infiltrating immune cells in hematoxylin and eosin stained breast cancer samples. Journal of Pathology Informatics, 2016, 7, 38. | 0.8 | 78        |
| 338 | Local Zernike Moment Representation for Facial Affect Recognition. , 2013, , .   |     | 33        |
| 339 | TL-SDD: A Transfer Learning-Based Method for Surface Defect Detection with Few Samples. , 2021, , .  |     | 5         |
| 340 | Novel Texture Feature Descriptors Based on Multi-Fractal Analysis and LBP for Classifying Breast Density in Mammograms. Journal of Imaging, 2021, 7, 205.                                      | 1.7 | 7         |
| 341 | Microscopic Local Binary Pattern for Texture Classification. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 1587-1595.                  | 0.2 | 0         |
| 343 | A Grammar for Representing Uniform Local Binary Patterns (ULBP). International Journal of Computers & Technology, 2014, 14, 5329-5336.   | 0.2 | 1         |
| 344 | Video Bioinformatics Methods for Analyzing Cell Dynamics: A Survey. Computational Biology, 2015, , 13-56.  | 0.1 | 1         |
| 345 | Global Neighbour Preserving Local Ternary Co-Occurrence Pattern (GNPLTCoP) for Ultrasound Kidney Images Retrieval. Indian Journal of Science and Technology, 2015, 8, 614.                     | 0.5 | 1         |
| 346 | Penggabungan Fitur Bentuk dan Fitur Tekstur yang Invariant terhadap Rotasi untuk Klasifikasi Citra Pap Smear. Jurnal Buana Informatika, 2016, 7, .   | 0.1 | 0         |
| 347 | Penggabungan Fitur Tekstur yang Invariant terhadap Iluminasi dan Fitur Bentuk untuk Deteksi Acute Lymphoblastic Leukemia. Jurnal Buana Informatika, 2016, 7, .                                 | 0.1 | 0         |
| 348 | FREEMAN CHAIN CODE AS REPRESENTATION IN OFFLINE SIGNATURE VERIFICATION SYSTEM. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .  | 0.3 | 0         |
| 349 | Multi-Resolution Local Binary Pattern for Assessing Cervical Ripening. International Journal of Signal Processing Systems, 2016, , 499-503.  | 0.5 | 0         |
| 350 | Hellinger Kernel-based Distance and Local Image Region Descriptors for Sky Region Detection from Fisheye Images. , 2017, , .   |     | 1         |
| 351 | Breast Density Classification Using Local Ternary Patterns in Mammograms. Lecture Notes in Computer Science, 2017, , 463-470.  | 1.0 | 7         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 352 | Finger Vein and Finger Dorsal Texture Recognition Joint Optimization based on Sparse Representation. , 2017, , .   |     | 0         |
| 353 | A comparative study for using the LBC format for compressing static medical images. Advances in Science, Technology and Engineering Systems, 2017, 2, 1472-1477.                           | 0.4 | 0         |
| 354 | Medical, Scene And Event Image Category Recognition Using Completed Local Ternary Patterns (CLTP). Malaysian Journal of Computer Science, 2017, 30, 200-218.                               | 0.5 | 3         |
| 355 | Breast Cancer Detection via Mammographic Images : A Survey. International Journal of Scientific Research in Computer Science Engineering and Information Technology, 2020, , 173-195.      | 0.2 | 0         |
| 356 | A Local Binary Pattern-Based Method for Color and Multicomponent Texture Analysis. Journal of Signal and Information Processing, 2020, 11, 58-73.  | 0.8 | 1         |
| 357 | A Review on LBP in Image Retrieval System for Future Enhancement and Vector Images. International Journal of Advanced Research in Science, Communication and Technology, 0, , 155-161.     | 0.0 | 0         |
| 358 | Medical Image Retrieval Using Empirical Mode Decomposition with Deep Convolutional Neural Network. BioMed Research International, 2020, 2020, 1-12.  | 0.9 | 3         |
| 359 | Cross-Modality Medical Image Retrieval with Deep Features. , 2020, , .   |     | 2         |
| 360 | Robust Texture Features for Breast Density Classification in Mammograms. , 2020, , .   |     | 3         |
| 362 | Impact of Variation in Number of Channels in CNN Classification model for Cervical Cancer Detection. , 2021, , .   |     | 4         |
| 363 | A local binary patterns/variance operator based on guided filtering for seismic fault detection. SN Applied Sciences, 2021, 3, 1.  | 1.5 | 0         |
| 364 | Colour and Texture Descriptors for Visual Recognition: A Historical Overview. Journal of Imaging, 2021, 7, 245.  | 1.7 | 17        |
| 365 | Grayscale-inversion and rotation invariant image description using local ternary derivative pattern with dominant structure encoding. Expert Systems With Applications, 2022, 191, 116327. | 4.4 | 1         |
| 366 | Image Classification with Shell Texture Feature Extraction Using Local Binary Pattern (LBP) Method. Applied Technology and Computing Science Journal, 2020, 3, 48-57.                      | 0.3 | 0         |
| 367 | An Analysis of Feature Selection Techniques For COVID-19 Detection on Chest X-Ray Data. , 2021, , .  |     | 0         |
| 368 | Maximum Entropy based Local Multiple Patterns for Texture Classification. , 2021, , .  |     | 0         |
| 369 | Deep localization of subcellular protein structures from fluorescence microscopy images. Neural Computing and Applications, 2022, 34, 5701.  | 3.2 | 1         |
| 371 | Document Filter for Writer Identification. Communications in Computer and Information Science, 2022, , 172-184.  | 0.4 | 0         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 372 | Facial Detection for Neonatal Infant Pain Using Facial Geometry Features and LBP. Lecture Notes in Networks and Systems, 2022, , 509-518.  | 0.5 | 2         |
| 373 | COV-ELM classifier: An extreme learning machine based identification of COVID-19 using chest X-ray images. Intelligent Decision Technologies, 2022, 16, 193-203.   | 0.6 | 5         |
| 374 | EEG functional connectivity and deep learning for automatic diagnosis of brain disorders: Alzheimer's disease and schizophrenia. Journal of Physics Complexity, 2022, 3, 025001.   | 0.9 | 17        |
| 375 | Spatial Distribution Analysis of Novel Texture Feature Descriptors for Accurate Breast Density Classification. Sensors, 2022, 22, 2672.  | 2.1 | 1         |
| 376 | An Image Processing Protocol to Extract Variables Predictive of Human Embryo Fitness for Assisted Reproduction. Applied Sciences (Switzerland), 2022, 12, 3531.  | 1.3 | 0         |
| 377 | Large set microstructure reconstruction mimicking quantum computing approach via deep learning. Acta Materialia, 2022, 230, 117860.  | 3.8 | 1         |
| 378 | MeQryEP: A Texture Based Descriptor for Biomedical Image Retrieval. Journal of Healthcare Engineering, 2022, 2022, 1-20.   | 1.1 | 5         |
| 380 | Hybrid Loss-Constrained Lightweight Convolutional Neural Networks for Cervical Cell Classification. Sensors, 2022, 22, 3272.   | 2.1 | 10        |
| 381 | Local ternary pattern based multi-directional guided mixed mask (MDGMM-LTP) for texture and material classification. Expert Systems With Applications, 2022, 205, 117646.  | 4.4 | 2         |
| 382 | Multi-class nucleus detection and classification using deep convolutional neural network with enhanced high dimensional dissimilarity translation model on cervical cells. Biocybernetics and Biomedical Engineering, 2022, 42, 797-814. | 3.3 | 14        |
| 383 | Fast and effective pedestrian detection based on low-level visual features combination. Journal of Electronic Imaging, 2022, 31, .   | 0.5 | 0         |
| 384 | Computed tomography vertebral segmentation from multi-vendor scanner data. Journal of Computational Design and Engineering, 2022, 9, 1650-1664.  | 1.5 | 4         |
| 385 | Building Trust for Postoperative Pain Estimation: Towards Explainable Machine-Learning Prediction Based on Multimodal Indicators. , 2022, , .  |     | 1         |
| 386 | Neutrosophic set based local binary pattern for texture classification. Expert Systems With Applications, 2022, 209, 118350.   | 4.4 | 4         |
| 387 | A Comprehensive Review of Deep Learning-Based Methods for COVID-19 Detection Using Chest X-Ray Images. IEEE Access, 2022, 10, 100763-100785.   | 2.6 | 8         |
| 388 | A Robust Local Texture Descriptor in the Parametric Space of the Weibull Distribution. IEEE Transactions on Multimedia, 2022, , 1-13.  | 5.2 | 0         |
| 389 | Texture Image Analysis Based on Joint of Multi Directions GLCM and Local Ternary Patterns. SSRN Electronic Journal, 0, , .   | 0.4 | 0         |
| 390 | Median arc center corrected binary pattern (MACCBP) for noise robust feature extraction. Multidimensional Systems and Signal Processing, 0, , .  | 1.7 | 1         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 391 | High-content video flow cytometry with digital cell filtering for label-free cell classification by machine learning. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2023, 103, 325-334. | 1.1 | 6         |
| 392 | Systematic literature review on approaches of extracting image merits. <i>Optik</i> , 2022, 271, 170097.  | 1.4 | 0         |
| 393 | A multi-scale threshold integration encoding strategy for texture classification. <i>Visual Computer</i> , 0, , .   | 2.5 | 0         |
| 394 | PSCL-2LSAESM: bioimage-based prediction of protein subcellular localization by integrating heterogeneous features with the two-level SAE-SM and mean ensemble method. <i>Bioinformatics</i> , 2023, 39, .                             | 1.8 | 1         |
| 395 | Cell Phenotype Classification Based on Joint of Texture Information and Multilayer Feature Extraction in DenseNet. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-12.   | 1.1 | 2         |
| 396 | Texture and material classification with multi-scale ternary and septenary patterns. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2022, , .   | 2.7 | 0         |
| 397 | A boon to aged society: Early diagnosis of Alzheimer's disease—An opinion. <i>Frontiers in Public Health</i> , 0, 10, .   | 1.3 | 0         |
| 398 | Transfer learning data adaptation using conflation of low-level textural features. <i>Engineering Reports</i> , 2023, 5, .  | 0.9 | 0         |
| 399 | A modified Local Binary Pattern based on homogeneity criterion for robust edge detection. <i>Signal, Image and Video Processing</i> , 0, , .  | 1.7 | 0         |
| 400 | LBP-Based CAD System Designs for Breast Tumor Characterization. <i>EAI/Springer Innovations in Communication and Computing</i> , 2023, , 231-257.   | 0.9 | 1         |
| 401 | Protein Subcellular Localization Prediction by Concatenation of Convolutional Blocks for Deep Features Extraction From Microscopic Images. <i>IEEE Access</i> , 2023, 11, 1057-1073.  | 2.6 | 4         |
| 402 | Texture Segmentation on Synthesized Vascular Image. , 2022, , .   |     | 1         |
| 403 | Cancer Identification in Enteric Nervous System Preclinical Images Using Handcrafted and Automatic Learned Features. <i>Neural Processing Letters</i> , 0, , .  | 2.0 | 0         |
| 405 | A completed parted region local neighborhood energy pattern for texture classification. , 2023, 137, 104031.  |     | 1         |
| 406 | Classification of intracranial hemorrhage CT images based on texture analysis using ensemble-based machine learning algorithms: A comparative study. <i>Biomedical Signal Processing and Control</i> , 2023, 84, 104832.              | 3.5 | 4         |
| 407 | An edge-located uniform pattern recovery mechanism using statistical feature-based optimal center pixel selection strategy for local binary pattern. <i>Expert Systems With Applications</i> , 2023, 221, 119763.                     | 4.4 | 8         |
| 408 | Roughness detection method based on image multi-features. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 0, , 095440892311549.                                    | 1.4 | 2         |
| 409 | Deep Learning Based Application in Detecting Wrinkle and Predicting Age. , 2023, , .  |     | 0         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 410 | From Local Binary Patterns to Pixel Difference Networks for Efficient Visual Representation Learning. Lecture Notes in Computer Science, 2023, , 138-155. | 1.0 | 0         |