# Loris Nanni

## List of Publications by Year
## in descending order

| | | | |
|---|---|---|---|
| 204 papers | 7,644 citations | 61984<br>43 h-index | 71685<br>76 g-index |
| 206 all docs | 206 docs citations | 206 times ranked | 5834 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Local binary patterns variants as texture descriptors for medical image analysis. Artificial Intelligence in Medicine, 2010, 49, 117-125. | 6.5 | 419 |
| 2 | Handcrafted vs. non-handcrafted features for computer vision classification. Pattern Recognition, 2017, 71, 158-172. | 8.1 | 380 |
| 3 | An improved BioHashing for human authentication. Pattern Recognition, 2007, 40, 1057-1065. | 8.1 | 275 |
| 4 | Survey on LBP based texture descriptors for image classification. Expert Systems With Applications, 2012, 39, 3634-3641. | 7.6 | 230 |
| 5 | An experimental comparison of ensemble of classifiers for bankruptcy prediction and credit scoring. Expert Systems With Applications, 2009, 36, 3028-3033. | 7.6 | 228 |
| 6 | Genetic programming for creating Chou's pseudo amino acid based features for submitochondria localization. Amino Acids, 2008, 34, 653-660. | 2.7 | 178 |
| 7 | Local binary patterns for a hybrid fingerprint matcher. Pattern Recognition, 2008, 41, 3461-3466. | 8.1 | 176 |
| 8 | An ensemble of K-local hyperplanes for predicting protein-protein interactions. Bioinformatics, 2006, 22, 1207-1210. | 4.1 | 157 |
| 9 | Identifying Bacterial Virulent Proteins by Fusing a Set of Classifiers Based on Variants of Chou's Pseudo Amino Acid Composition and on Evolutionary Information. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 467-475. | 3.0 | 156 |
| 10 | A critic evaluation of methods for COVID-19 automatic detection from X-ray images. Information Fusion, 2021, 76, 1-7. | 19.1 | 131 |
| 11 | Wavelet images and Chou's pseudo amino acid composition for protein classification. Amino Acids, 2012, 43, 657-665. | 2.7 | 117 |
| 12 | Deep learning and transfer learning features for plankton classification. Ecological Informatics, 2019, 51, 33-43. | 5.2 | 117 |
| 13 | Prediction of protein structure classes by incorporating different protein descriptors into general Chou's pseudo amino acid composition. Journal of Theoretical Biology, 2014, 360, 109-116. | 1.7 | 111 |
| 14 | Overview of the combination of biometric matchers. Information Fusion, 2017, 33, 71-85. | 19.1 | 106 |
| 15 | Coupling different methods for overcoming the class imbalance problem. Neurocomputing, 2015, 158, 48-61. | 5.9 | 105 |
| 16 | A local approach based on a Local Binary Patterns variant texture descriptor for classifying pain states. Expert Systems With Applications, 2010, 37, 7888-7894. | 7.6 | 102 |
| 17 | Artificial intelligence techniques for embryo and oocyte classification. Reproductive BioMedicine Online, 2013, 26, 42-49. | 2.4 | 95 |
| 18 | Impact of Lung Segmentation on the Diagnosis and Explanation of COVID-19 in Chest X-ray Images. Sensors, 2021, 21, 7116. | 3.8 | 89 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Combining visual and acoustic features for music genre classification. Expert Systems With Applications, 2016, 45, 108-117. | 7.6 | 87 |
| 20 | Data augmentation approaches for improving animal audio classification. Ecological Informatics, 2020, 57, 101084. | 5.2 | 87 |
| 21 | Hyperplanes for predicting protein–protein interactions. Neurocomputing, 2005, 69, 257-263. | 5.9 | 85 |
| 22 | Fusion of color spaces for ear authentication. Pattern Recognition, 2009, 42, 1906-1913. | 8.1 | 76 |
| 23 | Different Approaches for Extracting Information from the Co-Occurrence Matrix. PLoS ONE, 2013, 8, e83554. | 2.5 | 76 |
| 24 | Insect pest image detection and recognition based on bio-inspired methods. Ecological Informatics, 2020, 57, 101089. | 5.2 | 74 |
| 25 | A multi-matcher for ear authentication. Pattern Recognition Letters, 2007, 28, 2219-2226. | 4.2 | 73 |
| 26 | Random subspace for an improved BioHashing for face authentication. Pattern Recognition Letters, 2008, 29, 295-300. | 4.2 | 68 |
| 27 | Experimental comparison of one-class classifiers for online signature verification. Neurocomputing, 2006, 69, 869-873. | 5.9 | 67 |
| 28 | Combining local, regional and global matchers for a template protected on-line signature verification system. Expert Systems With Applications, 2010, 37, 3676-3684. | 7.6 | 67 |
| 29 | Particle swarm optimization for prototype reduction. Neurocomputing, 2009, 72, 1092-1097. | 5.9 | 63 |
| 30 | A novel local on-line signature verification system. Pattern Recognition Letters, 2008, 29, 559-568. | 4.2 | 60 |
| 31 | A reliable method for cell phenotype image classification. Artificial Intelligence in Medicine, 2008, 43, 87-97. | 6.5 | 60 |
| 32 | Descriptors for image-based fingerprint matchers. Expert Systems With Applications, 2009, 36, 12414-12422. | 7.6 | 60 |
| 33 | Introduction to Neonatal Facial Pain Detection Using Common and Advanced Face Classification Techniques. Studies in Computational Intelligence, 2007, , 225-253. | 0.9 | 59 |
| 34 | Ensemble of Parzen window classifiers for on-line signature verification. Neurocomputing, 2005, 68, 217-224. | 5.9 | 57 |
| 35 | High performance set of PseAAC and sequence based descriptors for protein classification. Journal of Theoretical Biology, 2010, 266, 1-10. | 1.7 | 57 |
| 36 | A simple method for improving local binary patterns by considering non-uniform patterns. Pattern Recognition, 2012, 45, 3844-3852. | 8.1 | 56 |

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|---|---------|-----|-----------|
| 37 | An Ensemble of Convolutional Neural Networks for Audio Classification. Applied Sciences (Switzerland), 2021, 11, 5796. | 2.5 | 54 |
| 38 | A clustering method for automatic biometric template selection. Pattern Recognition, 2006, 39, 495-497. | 8.1 | 53 |
| 39 | An Empirical Study of Different Approaches for Protein Classification. Scientific World Journal, The, 2014, 2014, 1-17. | 2.1 | 53 |
| 40 | A novel ensemble of classifiers for protein fold recognition. Neurocomputing, 2006, 69, 2434-2437. | 5.9 | 52 |
| 41 | An ensemble of classifiers for the diagnosis of erythemato-squamous diseases. Neurocomputing, 2006, 69, 842-845. | 5.9 | 51 |
| 42 | Weighted Sub-Gabor for face recognition. Pattern Recognition Letters, 2007, 28, 487-492. | 4.2 | 50 |
| 43 | Advanced methods for two-class problem formulation for on-line signature verification. Neurocomputing, 2006, 69, 854-857. | 5.9 | 48 |
| 44 | High performing ensemble of convolutional neural networks for insect pest image detection. Ecological Informatics, 2022, 67, 101515. | 5.2 | 45 |
| 45 | Deep learning for plankton and coral classification. Applied Computing and Informatics, 2023, 19, 265-283. | 5.9 | 43 |
| 46 | Comparison of Transfer Learning and Conventional Machine Learning Applied to Structural Brain MRI for the Early Diagnosis and Prognosis of Alzheimer's Disease. Frontiers in Neurology, 2020, 11, 576194. | 2.4 | 43 |
| 47 | Fusion of classifiers for predicting protein–protein interactions. Neurocomputing, 2005, 68, 289-296. | 5.9 | 42 |
| 48 | Ensemblator: An ensemble of classifiers for reliable classification of biological data. Pattern Recognition Letters, 2007, 28, 622-630. | 4.2 | 42 |
| 49 | Combining multiple approaches for gene microarray classification. Bioinformatics, 2012, 28, 1151-1157. | 4.1 | 42 |
| 50 | Ensemble of convolutional neural networks trained with different activation functions. Expert Systems With Applications, 2021, 166, 114048. | 7.6 | 42 |
| 51 | Fabric defect detection based on completed local quartet patterns and majority decision algorithm. Expert Systems With Applications, 2022, 198, 116827. | 7.6 | 42 |
| 52 | MppS: An ensemble of support vector machine based on multiple physicochemical properties of amino acids. Neurocomputing, 2006, 69, 1688-1690. | 5.9 | 41 |
| 53 | Empirical tests on BioHashing. Neurocomputing, 2006, 69, 2390-2395. | 5.9 | 40 |
| 54 | A classifier ensemble approach for the missing feature problem. Artificial Intelligence in Medicine, 2012, 55, 37-50. | 6.5 | 40 |

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|---|---------|-----|-----------|
| 55 | Non-Binary Coding for Texture Descriptors in Sub-Cellular and Stem Cell Image Classification. Current Bioinformatics, 2013, 8, 208-219. | 1.5 | 40 |
| 56 | Detector of image orientation based on Borda Count. Pattern Recognition Letters, 2006, 27, 180-186. | 4.2 | 39 |
| 57 | A hybrid wavelet-based fingerprint matcher. Pattern Recognition, 2007, 40, 3146-3151. | 8.1 | 38 |
| 58 | Local Ternary Patterns from Three Orthogonal Planes for human action classification. Expert Systems With Applications, 2011, 38, 5125-5128. | 7.6 | 38 |
| 59 | Ensemble of convolutional neural networks to improve animal audio classification. Eurasip Journal on Audio, Speech, and Music Processing, 2020, 2020, . | 2.1 | 38 |
| 60 | Comparison among feature extraction methods for HIV-1 protease cleavage site prediction. Pattern Recognition, 2006, 39, 711-713. | 8.1 | 36 |
| 61 | Using ensemble of classifiers for predicting HIV protease cleavage sites in proteins. Amino Acids, 2009, 36, 409-416. | 2.7 | 36 |
| 62 | Prototype reduction techniques: A comparison among different approaches. Expert Systems With Applications, 2011, 38, 11820-11828. | 7.6 | 35 |
| 63 | A genetic approach for building different alphabets for peptide and protein classification. BMC Bioinformatics, 2008, 9, 45. | 2.6 | 34 |
| 64 | A multi-matcher system based on knuckle-based features. Neural Computing and Applications, 2009, 18, 87-91. | 5.6 | 34 |
| 65 | Texture descriptors and voxels for the early diagnosis of Alzheimer's disease. Artificial Intelligence in Medicine, 2019, 97, 19-26. | 6.5 | 34 |
| 66 | An ensemble of support vector machines for predicting the membrane protein type directly from the amino acid sequence. Amino Acids, 2008, 35, 573-580. | 2.7 | 33 |
| 67 | Two-class fingerprint matcher. Pattern Recognition, 2006, 39, 714-716. | 8.1 | 32 |
| 68 | Combing ontologies and dipeptide composition for predicting DNA-binding proteins. Amino Acids, 2008, 34, 635-641. | 2.7 | 31 |
| 69 | Ensemble of on-line signature matchers based on OverComplete feature generation. Expert Systems With Applications, 2009, 36, 5291-5296. | 7.6 | 31 |
| 70 | A Further Step Toward an Optimal Ensemble of Classifiers for Peptide Classification, a Case Study: HIV Protease. Protein and Peptide Letters, 2009, 16, 163-167. | 0.9 | 31 |
| 71 | A very high performing system to discriminate tissues in mammograms as benign and malignant. Expert Systems With Applications, 2012, 39, 1968-1971. | 7.6 | 31 |
| 72 | Combining multiple approaches for the early diagnosis of Alzheimer's Disease. Pattern Recognition Letters, 2016, 84, 259-266. | 4.2 | 31 |

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|---|---------|----|-----------|
| 73 | Ensemble of deep learning, visual and acoustic features for music genre classification. Journal of New Music Research, 2018, 47, 383-397. | 0.8 | 31 |
| 74 | Comparison of Different Image Data Augmentation Approaches. Journal of Imaging, 2021, 7, 254. | 3.0 | 30 |
| 75 | FuzzyBagging: A novel ensemble of classifiers. Pattern Recognition, 2006, 39, 488-490. | 8.1 | 29 |
| 76 | RegionBoost learning for 2D+3D based face recognition. Pattern Recognition Letters, 2007, 28, 2063-2070. | 4.2 | 29 |
| 77 | Computer vision for virus image classification. Biosystems Engineering, 2015, 138, 11-22. | 4.3 | 29 |
| 78 | Bioimage Classification with Handcrafted and Learned Features. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 874-885. | 3.0 | 29 |
| 79 | Convolutional Neural Networks for ATC Classification. Current Pharmaceutical Design, 2019, 24, 4007-4012. | 1.9 | 29 |
| 80 | Wavelet decomposition tree selection for palm and face authentication. Pattern Recognition Letters, 2008, 29, 343-353. | 4.2 | 27 |
| 81 | Heterogeneous bag-of-features for object/scene recognition. Applied Soft Computing Journal, 2013, 13, 2171-2178. | 7.2 | 27 |
| 82 | Indirect immunofluorescence image classification using texture descriptors. Expert Systems With Applications, 2014, 41, 2463-2471. | 7.6 | 27 |
| 83 | Ensemble based on static classifier selection for automated diagnosis of Mild Cognitive Impairment. Journal of Neuroscience Methods, 2018, 302, 42-46. | 2.5 | 27 |
| 84 | Learning morphological operators for skin detection. Journal of Artificial Intelligence and Systems, 2019, 1, 60-76. | 1.1 | 27 |
| 85 | Ensemble generation and feature selection for the identification of students with learning disabilities. Expert Systems With Applications, 2009, 36, 3896-3900. | 7.6 | 26 |
| 86 | Combining different local binary pattern variants to boost performance. Expert Systems With Applications, 2011, 38, 6209-6216. | 7.6 | 26 |
| 87 | Cluster-based pattern discrimination: A novel technique for feature selection. Pattern Recognition Letters, 2006, 27, 682-687. | 4.2 | 25 |
| 88 | Ensemble of multiple Palmprint representation. Expert Systems With Applications, 2009, 36, 4485-4490. | 7.6 | 25 |
| 89 | Likelihood ratio based features for a trained biometric score fusion. Expert Systems With Applications, 2011, 38, 58-63. | 7.6 | 25 |
| 90 | Wavelet selection for disease classification by DNA microarray data. Expert Systems With Applications, 2011, 38, 990-995. | 7.6 | 25 |

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|---|---------|-----|-----------|
| 91 | Local phase quantization descriptor for improving shape retrieval/classification. Pattern Recognition Letters, 2012, 33, 2254-2260. | 4.2 | 25 |
| 92 | Deep Learning and Handcrafted Features for Virus Image Classification. Journal of Imaging, 2020, 6, 143. | 3.0 | 25 |
| 93 | Multihashing, human authentication featuring biometrics data and tokenized random number: A case study FVC2004. Neurocomputing, 2005, 69, 242-249. | 5.9 | 24 |
| 94 | Ensemble of classifiers for protein fold recognition. Neurocomputing, 2006, 69, 850-853. | 5.9 | 24 |
| 95 | Evolved Feature Weighting for Random Subspace Classifier. IEEE Transactions on Neural Networks, 2008, 19, 363-366. | 4.2 | 24 |
| 96 | An ensemble of reduced alphabets with protein encoding based on grouped weight for predicting DNA-binding proteins. Amino Acids, 2009, 36, 167-175. | 2.7 | 24 |
| 97 | Protein classification using texture descriptors extracted from the protein backbone image. Journal of Theoretical Biology, 2010, 264, 1024-1032. | 1.7 | 24 |
| 98 | Combining Face and Eye Detectors in a High- Performance Face-Detection System. IEEE MultiMedia, 2012, 19, 20-27. | 1.7 | 24 |
| 99 | Effective and precise face detection based on color and depth data. Applied Computing and Informatics, 2014, 10, 1-13. | 5.9 | 24 |
| 100 | Stochastic Selection of Activation Layers for Convolutional Neural Networks. Sensors, 2020, 20, 1626. | 3.8 | 24 |
| 101 | An ensemble of support vector machines for predicting virulent proteins. Expert Systems With Applications, 2009, 36, 7458-7462. | 7.6 | 23 |
| 102 | A set of descriptors for identifying the protein–drug interaction in cellular networking. Journal of Theoretical Biology, 2014, 359, 120-128. | 1.7 | 22 |
| 103 | Multi-label classifier based on histogram of gradients for predicting the anatomical therapeutic chemical class/classes of a given compound. Bioinformatics, 2017, 33, 2837-2841. | 4.1 | 22 |
| 104 | Fair comparison of skin detection approaches on publicly available datasets. Expert Systems With Applications, 2020, 160, 113677. | 7.6 | 22 |
| 105 | An efficient fingerprint verification system using integrated gabor filters and Parzen Window Classifier. Neurocomputing, 2005, 68, 208-216. | 5.9 | 21 |
| 106 | Machine learning algorithms for T-cell epitopes prediction. Neurocomputing, 2006, 69, 866-868. | 5.9 | 21 |
| 107 | An advanced multi-matcher method for on-line signature verification featuring global features and tokenised random numbers. Neurocomputing, 2006, 69, 2402-2406. | 5.9 | 21 |
| 108 | A supervised method to discriminate between impostors and genuine in biometry. Expert Systems With Applications, 2009, 36, 10401-10407. | 7.6 | 21 |

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|---|---------|-----|-----------|
| 109 | A new encoding technique for peptide classification. Expert Systems With Applications, 2011, 38, 3185-3191. | 7.6 | 21 |
| 110 | Toward a General-Purpose Heterogeneous Ensemble for Pattern Classification. Computational Intelligence and Neuroscience, 2015, 2015, 1-10. | 1.7 | 21 |
| 111 | Combining biometric matchers by means of machine learning and statistical approaches. Neurocomputing, 2015, 149, 526-535. | 5.9 | 21 |
| 112 | Ensemble of texture descriptors and classifiers for face recognition. Applied Computing and Informatics, 2017, 13, 79-91. | 5.9 | 21 |
| 113 | An empirical study on the matrix-based protein representations and their combination with sequence-based approaches. Amino Acids, 2013, 44, 887-901. | 2.7 | 20 |
| 114 | A comparison of methods for extracting information from the co-occurrence matrix for subcellular classification. Expert Systems With Applications, 2013, 40, 7457-7467. | 7.6 | 20 |
| 115 | How could a subcellular image, or a painting by Van Gogh, be similar to a great white shark or to a pizza?. Pattern Recognition Letters, 2017, 85, 1-7. | 4.2 | 20 |
| 116 | Spectrogram Classification Using Dissimilarity Space. Applied Sciences (Switzerland), 2020, 10, 4176. | 2.5 | 20 |
| 117 | Combining Multiple Matchers for Fingerprint Verification: A Case Study in FVC2004. Lecture Notes in Computer Science, 2005, , 1035-1042. | 1.3 | 19 |
| 118 | Machine learning for HIV-1 protease cleavage site prediction. Pattern Recognition Letters, 2006, 27, 1537-1544. | 4.2 | 18 |
| 119 | Fusion of systems for automated cell phenotype image classification. Expert Systems With Applications, 2010, 37, 1556-1562. | 7.6 | 17 |
| 120 | An ensemble of classifiers based on different texture descriptors for texture classification. Journal of King Saud University - Science, 2013, 25, 235-244. | 3.5 | 17 |
| 121 | Ensemble of texture descriptors for face recognition obtained by varying feature transforms and preprocessing approaches. Applied Soft Computing Journal, 2017, 61, 8-16. | 7.2 | 17 |
| 122 | An advanced multi-modal method for human authentication featuring biometrics data and tokenised random numbers. Neurocomputing, 2006, 69, 1706-1710. | 5.9 | 16 |
| 123 | A genetic encoding approach for learning methods for combining classifiers. Expert Systems With Applications, 2009, 36, 7510-7514. | 7.6 | 16 |
| 124 | Texture Descriptors Ensembles Enable Image-Based Classification of Maturation of Human Stem Cell-Derived Retinal Pigmented Epithelium. PLoS ONE, 2016, 11, e0149399. | 2.5 | 16 |
| 125 | An enhanced subspace method for face recognition. Pattern Recognition Letters, 2006, 27, 76-84. | 4.2 | 15 |
| 126 | Reduced Reward-punishment editing for building ensembles of classifiers. Expert Systems With Applications, 2011, 38, 2395-2400. | 7.6 | 15 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 127 | Improving the descriptors extracted from the co-occurrence matrix using preprocessing approaches. Expert Systems With Applications, 2015, 42, 8989-9000. | 7.6 | 15 |
| 128 | iProStruct2D: Identifying protein structural classes by deep learning via 2D representations. Expert Systems With Applications, 2020, 142, 113019. | 7.6 | 15 |
| 129 | Advanced methods for two-class pattern recognition problem formulation for minutiae-based fingerprint verification. Pattern Recognition Letters, 2008, 29, 142-148. | 4.2 | 14 |
| 130 | Particle swarm optimization for ensembling generation for evidential k-nearest-neighbour classifier. Neural Computing and Applications, 2009, 18, 105-108. | 5.6 | 14 |
| 131 | Matrix representation in pattern classification. Expert Systems With Applications, 2012, 39, 3031-3036. | 7.6 | 14 |
| 132 | Double committee adaboost. Journal of King Saud University - Science, 2013, 25, 29-37. | 3.5 | 14 |
| 133 | Introduction to Local Binary Patterns: New Variants and Applications. Studies in Computational Intelligence, 2014, , 1-13. | 0.9 | 14 |
| 134 | Ensemble of different approaches for a reliable person re-identification system. Applied Computing and Informatics, 2016, 12, 142-153. | 5.9 | 14 |
| 135 | Animal Sound Classification Using Dissimilarity Spaces. Applied Sciences (Switzerland), 2020, 10, 8578. | 2.5 | 14 |
| 136 | Novel Features for Automated Cell Phenotype Image Classification. Advances in Experimental Medicine and Biology, 2010, 680, 207-213. | 1.6 | 14 |
| 137 | Fusion of classifiers for illumination robust face recognition. Expert Systems With Applications, 2009, 36, 8946-8954. | 7.6 | 13 |
| 138 | Random interest regions for object recognition based on texture descriptors and bag of features. Expert Systems With Applications, 2012, 39, 973-977. | 7.6 | 13 |
| 139 | Set of approaches based on 3D structure and position specific-scoring matrix for predicting DNA-binding proteins. Bioinformatics, 2019, 35, 1844-1851. | 4.1 | 13 |
| 140 | Data pre-processing through reward–"punishment editing. Pattern Analysis and Applications, 2010, 13, 367-381. | 4.6 | 12 |
| 141 | Combination of projectors, standard texture descriptors and bag of features for classifying images. Neurocomputing, 2016, 173, 1602-1614. | 5.9 | 12 |
| 142 | Bird and whale species identification using sound images. IET Computer Vision, 2018, 12, 178-184. | 2.0 | 12 |
| 143 | Deep Features for Training Support Vector Machines. Journal of Imaging, 2021, 7, 177. | 3.0 | 12 |
| 144 | An Empirical Study on Ensemble of Segmentation Approaches. Signals, 2022, 3, 341-358. | 1.9 | 12 |

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|---|---------|-----|-----------|
| 145 | Human authentication featuring signatures and tokenised random numbers. Neurocomputing, 2006, 69, 858-861. | 5.9 | 11 |
| 146 | An experimental comparison of ensemble of classifiers for biometric data. Neurocomputing, 2006, 69, 1670-1673. | 5.9 | 11 |
| 147 | Over-complete feature generation and feature selection for biometry. Expert Systems With Applications, 2008, 35, 2049-2055. | 7.6 | 11 |
| 148 | Protein classification combining surface analysis and primary structure. Protein Engineering, Design and Selection, 2009, 22, 267-272. | 2.1 | 11 |
| 149 | On selecting Gabor features for biometric authentication. International Journal of Computer Applications in Technology, 2009, 35, 23. | 0.5 | 11 |
| 150 | A thermographic visual inspection system for crack detection in metal parts exploiting a robotic workcell. Robotics and Autonomous Systems, 2015, 74, 351-359. | 5.1 | 11 |
| 151 | Multilayer descriptors for medical image classification. Computers in Biology and Medicine, 2016, 72, 239-247. | 7.0 | 11 |
| 152 | Ensemble of Local Phase Quantization Variants with Ternary Encoding. Studies in Computational Intelligence, 2014, , 177-188. | 0.9 | 10 |
| 153 | Ensemble of shape descriptors for shape retrieval and classification. International Journal of Advanced Intelligence Paradigms, 2014, 6, 136. | 0.3 | 10 |
| 154 | Combination of different fingerprint systems: a case study FVC2004. Sensor Review, 2006, 26, 51-57. | 1.8 | 9 |
| 155 | A reliable method for HIV-1 protease cleavage site prediction. Neurocomputing, 2006, 69, 838-841. | 5.9 | 9 |
| 156 | Predicting trait impressions of faces using local face recognition techniques. Expert Systems With Applications, 2010, 37, 5086-5093. | 7.6 | 9 |
| 157 | Orthogonal linear discriminant analysis and feature selection for micro-array data classification. Expert Systems With Applications, 2010, 37, 7132-7137. | 7.6 | 9 |
| 158 | An ensemble of visual features for Gaussians of local descriptors and non-binary coding for texture descriptors. Expert Systems With Applications, 2017, 82, 27-39. | 7.6 | 9 |
| 159 | The Computerization of Archaeology: Survey on Artificial Intelligence Techniques. SN Computer Science, 2020, 1, 1. | 3.6 | 9 |
| 160 | Identifying splice-junction sequences by hierarchical multiclassifier. Pattern Recognition Letters, 2006, 27, 1390-1396. | 4.2 | 8 |
| 161 | Data Augmentation for Building an Ensemble of Convolutional Neural Networks. Smart Innovation, Systems and Technologies, 2019, , 61-69. | 0.6 | 8 |
| 162 | Experiments of Image Classification Using Dissimilarity Spaces Built with Siamese Networks. Sensors, 2021, 21, 1573. | 3.8 | 8 |

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|---|---------|-----|-----------|
| 163 | A deformation-invariant image-based fingerprint verification system. Neurocomputing, 2006, 69, 2336-2339. | 5.9 | 7 |
| 164 | Generalized Needleman–Wunsch algorithm for the recognition of T-cell epitopes. Expert Systems With Applications, 2008, 35, 1463-1467. | 7.6 | 7 |
| 165 | Artificial intelligence systems based on texture descriptors for vaccine development. Amino Acids, 2011, 40, 443-451. | 2.7 | 7 |
| 166 | Fusion of classifiers for protein fold recognition. Neurocomputing, 2005, 68, 315-321. | 5.9 | 6 |
| 167 | A reliable method for designing an automatic karyotyping system. Neurocomputing, 2006, 69, 1739-1742. | 5.9 | 6 |
| 168 | A multi-modal method based on the competitors of FVC2004 and on palm data combined with tokenised random numbers. Pattern Recognition Letters, 2008, 29, 1344-1350. | 4.2 | 6 |
| 169 | Advanced machine learning techniques for microarray spot quality classification. Neural Computing and Applications, 2010, 19, 471-475. | 5.6 | 6 |
| 170 | Coding of amino acids by texture descriptors. Artificial Intelligence in Medicine, 2010, 48, 43-50. | 6.5 | 6 |
| 171 | Heterogeneous machine learning system for improving the diagnosis of primary aldosteronism. Pattern Recognition Letters, 2015, 65, 124-130. | 4.2 | 6 |
| 172 | Face Detection Ensemble with Methods Using Depth Information to Filter False Positives. Sensors, 2019, 19, 5242. | 3.8 | 6 |
| 173 | Random Bands: A novel ensemble for fingerprint matching. Neurocomputing, 2006, 69, 1702-1705. | 5.9 | 5 |
| 174 | A multi-expert approach for wavelet-based face detection. Pattern Recognition Letters, 2007, 28, 1541-1547. | 4.2 | 5 |
| 175 | Ensemble of different local descriptors, codebook generation methods and subwindow configurations for building a reliable computer vision system. Journal of King Saud University - Science, 2014, 26, 89-100. | 3.5 | 5 |
| 176 | Image orientation detection by ensembles of Stochastic CNNs. Machine Learning With Applications, 2021, 6, 100090. | 4.4 | 5 |
| 177 | Ensemble of Deep Learning Approaches for ATC Classification. Smart Innovation, Systems and Technologies, 2020, , 117-125. | 0.6 | 5 |
| 178 | Convolutional Neural Networks for the Identification of African Lions from Individual Vocalizations. Journal of Imaging, 2022, 8, 96. | 3.0 | 5 |
| 179 | Multi-resolution subspace for financial trading. Pattern Recognition Letters, 2006, 27, 109-115. | 4.2 | 4 |
| 180 | Texture descriptors for generic pattern classification problems. Expert Systems With Applications, 2011, 38, 9340-9345. | 7.6 | 4 |

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|---|---------|-----|-----------|
| 181 | A novel method for fingerprint verification that approaches the problem as a two-class pattern recognition problem. Neurocomputing, 2006, 69, 846-849. | 5.9 | 3 |
| 182 | Machine learning multi-classifiers for peptide classification. Neural Computing and Applications, 2009, 18, 185-192. | 5.6 | 3 |
| 183 | Genetic nearest feature plane. Expert Systems With Applications, 2009, 36, 838-843. | 7.6 | 3 |
| 184 | Input Decimated Ensemble based on Neighborhood Preserving Embedding for spectrogram classification. Expert Systems With Applications, 2009, 36, 11257-11261. | 7.6 | 3 |
| 185 | Ensembles of dense and dense sampling descriptors for the HEp-2 cells classification problem. Pattern Recognition Letters, 2016, 82, 28-35. | 4.2 | 3 |
| 186 | Weighted Reward–Punishment Editing. Pattern Recognition Letters, 2016, 75, 48-54. | 4.2 | 3 |
| 187 | Texture descriptors for representing feature vectors. Expert Systems With Applications, 2019, 122, 163-172. | 7.6 | 3 |
| 188 | Deep Ensembles Based on Stochastic Activations for Semantic Segmentation. Signals, 2021, 2, 820-833. | 1.9 | 3 |
| 189 | A user dependent multi-resolution approach for biometric data. International Journal of Information Technology and Management, 2012, 11, 112. | 0.1 | 2 |
| 190 | Anatomical Therapeutic Chemical Classification (ATC) With Multi-Label Learners and Deep Features. International Journal of Natural Computing Research, 2020, 9, 16-29. | 0.5 | 2 |
| 191 | Postprocessing for Skin Detection. Journal of Imaging, 2021, 7, 95. | 3.0 | 2 |
| 192 | Closing the Performance Gap between Siamese Networks for Dissimilarity Image Classification and Convolutional Neural Networks. Sensors, 2021, 21, 5809. | 3.8 | 2 |
| 193 | Ensemble of Handcrafted and Deep Learned Features for Cervical Cell Classification. Intelligent Systems Reference Library, 2020, , 117-135. | 1.2 | 2 |
| 194 | A reliable method for the diagnosis of gastric carcinoma. Neurocomputing, 2006, 69, 862-865. | 5.9 | 1 |
| 195 | Cluster-Based Nearest-Neighbour Classifier and Its Application on the Lightning Classification. Journal of Computer Science and Technology, 2008, 23, 573-581. | 1.5 | 1 |
| 196 | Robust ensemble of handcrafted and learned approaches for DNA-binding proteins. Applied Computing and Informatics, 2021, ahead-of-print, . | 5.9 | 1 |
| 197 | Ensemble of Neural Networks for Automated Cell Phenotype Image Classification. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 234-259. | 0.4 | 1 |
| 198 | An approach for improving face recognition in presence of inaccurate detection. Neurocomputing, 2006, 69, 1678-1682. | 5.9 | 0 |

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