

Serestina Viriri

List of Publications by Citations

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

139
papers

677
citations

12
h-index

21
g-index

161
ext. papers

1,078
ext. citations

1.7
avg, IF

5.63
L-index

#	Paper	IF	Citations
139	Deep learning techniques for skin lesion analysis and melanoma cancer detection: a survey of state-of-the-art. <i>Artificial Intelligence Review</i> , 2021 , 54, 811-841	9.7	48
138	A conceptual comparison of several metaheuristic algorithms on continuous optimisation problems. <i>Neural Computing and Applications</i> , 2020 , 32, 6207-6251	4.8	43
137	Examining energy sufficiency and energy mobility in the global south through the energy justice framework. <i>Energy Policy</i> , 2018 , 119, 68-76	7.2	42
136	Deep Learning-Based System for Automatic Melanoma Detection. <i>IEEE Access</i> , 2020 , 8, 7160-7172	3.5	37
135	Adaptive thresholding technique for retinal vessel segmentation based on GLCM-energy information. <i>Computational and Mathematical Methods in Medicine</i> , 2015 , 2015, 597475	2.8	33
134	FCN-Based DenseNet Framework for Automated Detection and Classification of Skin Lesions in Dermoscopy Images. <i>IEEE Access</i> , 2020 , 8, 150377-150396	3.5	26
133	Justice, poverty, and electricity decarbonization. <i>Electricity Journal</i> , 2019 , 32, 47-51	2.6	23
132	Symbiotic organisms search algorithm for the unrelated parallel machines scheduling with sequence-dependent setup times. <i>PLoS ONE</i> , 2018 , 13, e0200030	3.7	21
131	Deep Learning for Brain Tumor Segmentation: A Survey of State-of-the-Art. <i>Journal of Imaging</i> , 2021 , 7,	3.1	21
130	Deeply Learned Classifiers for Age and Gender Predictions of Unfiltered Faces. <i>Scientific World Journal, The</i> , 2020 , 2020, 1289408	2.2	17
129	Comparative study of retinal vessel segmentation based on global thresholding techniques. <i>Computational and Mathematical Methods in Medicine</i> , 2015 , 2015, 895267	2.8	15
128	Retinal Vessel Segmentation: A Comparative Study of Fuzzy C-Means and Sum Entropy Information on Phase Congruency. <i>International Journal of Advanced Robotic Systems</i> , 2015 , 12, 133	1.4	13
127	Integrating iris and signature traits for personal authentication using user-specific weighting. <i>Sensors</i> , 2012 , 12, 4324-38	3.8	12
126	AUTOMATIC RETINAL VESSEL DETECTION AND TORTUOSITY MEASUREMENT. <i>Image Analysis and Stereology</i> , 2016 , 35, 117	1	12
125	Classification of Hematoxylin and Eosin-Stained Breast Cancer Histology Microscopy Images Using Transfer Learning with EfficientNets. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 5580914 ³		12
124	2019 ,		10
123	An off-line signature verification system 2009 ,		10

122	A New Adaptive Thresholding Technique for Retinal Vessel Segmentation Based on Local Homogeneity Information. <i>Lecture Notes in Computer Science</i> , 2014 , 558-567	0.9	10
121	A Review of Local, Holistic and Deep Learning Approaches in Facial Expressions Recognition 2019 ,		9
120	Deep learning approach for facial age classification: a survey of the state-of-the-art. <i>Artificial Intelligence Review</i> , 2021 , 54, 179-213	9.7	9
119	Automatic lung segmentation based on Graph Cut using a distance-constrained energy. <i>IET Computer Vision</i> , 2018 , 12, 609-615	1.4	8
118	A survey on facial recognition based on local directional and local binary patterns 2018 ,		8
117	Skin Lesion Segmentation Using Stochastic Region-Merging and Pixel-Based Markov Random Field. <i>Symmetry</i> , 2020 , 12, 1224	2.7	8
116	Detection of COVID-19 from CT Lung Scans Using Transfer Learning. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 5527923	3	8
115	Deep Learning Approach for Medical Image Analysis. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 1-9	3	8
114	An income-reflective scalable energy level transition system for low/middle income households. <i>Sustainable Cities and Society</i> , 2019 , 45, 172-186	10.1	8
113	Skin Lesion Images Segmentation: A Survey of the State-of-the-Art. <i>Lecture Notes in Computer Science</i> , 2018 , 321-330	0.9	8
112	Facial Expression Recognition of Instructor Using Deep Features and Extreme Learning Machine. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 5570870	3	7
111	Iris pattern recognition based on cumulative sums and majority vote methods. <i>International Journal of Advanced Robotic Systems</i> , 2017 , 14, 172988141770393	1.4	6
110	An Enhanced Deep Learning Framework for Skin Lesions Segmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 414-425	0.9	6
109	Hybrid component-based face recognition 2017 ,		5
108	A Smart Grid Framework for Optimally Integrating Supply-Side, Demand-Side and Transmission Line Management Systems. <i>Energies</i> , 2018 , 11, 1038	3.1	5
107	PLANT SPECIE CLASSIFICATION USING SINUOSITY COEFFICIENTS OF LEAVES. <i>Image Analysis and Stereology</i> , 2018 , 37, 119	1	5
106	A Probabilistic-Based Deep Learning Model for Skin Lesion Segmentation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3025	2.6	5
105	2019 ,		4

104	Retinal vessel segmentation based on phase congruence and GLCM sum-entropy 2015 ,		4
103	Enhanced Convolutional Neural Networks for Segmentation of Retinal Blood Vessel Image 2020 ,		4
102	Gender classification using face recognition 2013 ,		4
101	Automatic Blob Detection for Dental Caries. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9232	2.6	4
100	Age Group and Gender Classification of Unconstrained Faces. <i>Lecture Notes in Computer Science</i> , 2019 , 418-429	0.9	4
99	Tuberculosis Abnormality Detection in Chest X-Rays: A Deep Learning Approach. <i>Lecture Notes in Computer Science</i> , 2020 , 121-132	0.9	4
98	Pre-trained Convolutional Neural Network for the Diagnosis of Tuberculosis. <i>Lecture Notes in Computer Science</i> , 2020 , 558-569	0.9	4
97	Policy discussion for sustainable integrated electricity expansion in South Africa. <i>Energy Policy</i> , 2018 , 120, 132-143	7.2	4
96	2017 ,		3
95	Skin Cancer Detection from Macroscopic Images 2019 ,		3
94	Component-Based Ethnicity Identification from Facial Images. <i>Lecture Notes in Computer Science</i> , 2016 , 293-303	0.9	3
93	Facial Expression Recognition: A Survey on Local Binary and Local Directional Patterns. <i>Lecture Notes in Computer Science</i> , 2018 , 513-522	0.9	3
92	Gender identification from facial images using global features 2018 ,		3
91	Deep Learning Using Bayesian Optimization for Facial Age Estimation. <i>Lecture Notes in Computer Science</i> , 2019 , 243-254	0.9	3
90	Improving Iris-Based Personal Identification Using Maximum Rectangular Region Detection 2009 ,		3
89	Skin Lesion Segmentation Using Local Binary Convolution-Deconvolution Architecture. <i>Image Analysis and Stereology</i> , 2020 , 39, 169-185	1	3
88	OntoMetrics Evaluation of Quality of e-Government Ontologies. <i>Lecture Notes in Computer Science</i> , 2019 , 189-203	0.9	3
87	Age Estimation of Real-Time Faces Using Convolutional Neural Network. <i>Lecture Notes in Computer Science</i> , 2019 , 316-327	0.9	3

86	Sinuosity Coefficients for Leaf Shape Characterisation. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 141-150	0.4	3
85	Adaptive Deep Co-Occurrence Feature Learning Based on Classifier-Fusion for Remote Sensing Scene Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020 , 1-1	4.7	3
84	Response to Todd, De Groot, Mose, McCauley and Heffron's critique of Examining energy sufficiency and energy mobility in the global south through the energy justice framework <i>Energy Policy</i> , 2019 , 133, 110917	7.2	3
83	CRank: A Novel Framework for Ranking Semantic Web Ontologies. <i>Lecture Notes in Computer Science</i> , 2018 , 107-121	0.9	3
82	Long Short-Term Memory Recurrent Neural Network for Automatic Speech Recognition. <i>IEEE Access</i> , 2022 , 10, 30069-30079	3.5	3
81	Local Descriptors Parameter characterization with Fisher vectors for remote sensing images 2019 ,		2
80	Deep Learning Model for Skin Lesion Segmentation: Fully Convolutional Network. <i>Lecture Notes in Computer Science</i> , 2019 , 232-242	0.9	2
79	Animal identification based on footprint recognition 2013 ,		2
78	2017 ,		2
77	Handwritten signature verification using weighted fractional distance classification 2012 ,		2
76	Multilabel convolution neural network for facial expression recognition and ordinal intensity estimation.. <i>PeerJ Computer Science</i> , 2021 , 7, e736	2.7	2
75	Skin Lesion Segmentation Using Enhanced Unified Markov Random Field. <i>Lecture Notes in Computer Science</i> , 2018 , 331-340	0.9	2
74	Skin Lesion Segmentation Based on Region-Edge Markov Random Field. <i>Lecture Notes in Computer Science</i> , 2019 , 407-418	0.9	2
73	Face Expression Recognition using Convolution Neural Network (CNN) Models. <i>International Journal of Grid Computing & Applications</i> , 2020 , 11, 1-11	1	2
72	Face-Based Age and Gender Classification Using Deep Learning Model. <i>Lecture Notes in Computer Science</i> , 2020 , 125-137	0.9	2
71	Diagnosing Tuberculosis Using Deep Convolutional Neural Network. <i>Lecture Notes in Computer Science</i> , 2020 , 151-161	0.9	2
70	Combining Feature Methods for Content-Based Classification of Mammogram Images. <i>International Journal of Computers, Communications and Control</i> , 2013 , 8, 499	3.6	2
69	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020 , 13, 3644-3655	4.7	2

68	Caries Detection in Non-standardized Periapical Dental X-Rays. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2019 , 143-152	0.3	2
67	A spy search mechanism for memetic algorithm in dynamic environments. <i>Applied Soft Computing Journal</i> , 2019 , 75, 203-214	7.5	2
66	Deep Learning for Age Estimation Using EfficientNet. <i>Lecture Notes in Computer Science</i> , 2021 , 407-419	0.9	2
65	. <i>IEEE Access</i> , 2021 , 1-1	3.5	2
64	Deep Learning with Optimization Techniques for the Classification of Spoken English Digit. <i>Lecture Notes in Computer Science</i> , 2021 , 494-507	0.9	2
63	Skin Cancer Segmentation Using a Unified Markov Random Field. <i>Lecture Notes in Computer Science</i> , 2018 , 25-33	0.9	2
62	Pancreatic Cancer Survival Prediction: A Survey of the State-of-the-Art. <i>Computational and Mathematical Methods in Medicine</i> , 2021 , 2021, 1188414	2.8	2
61	Spectral Analysis for Automatic Speech Recognition and Enhancement. <i>Lecture Notes in Computer Science</i> , 2021 , 245-254	0.9	2
60	Hybrid Age Estimation Using Facial Images. <i>Lecture Notes in Computer Science</i> , 2015 , 239-246	0.9	1
59	Face verification across age progression: A survey of the state-of-the-art 2018 ,		1
58	Gender classification based on fusion of facial components features 2018 ,		1
57	Online signature verification using hybrid transform features 2018 ,		1
56	A Spy Search Mechanism (SSM) for Memetic Algorithm (MA) in Dynamic Environments. <i>Lecture Notes in Computer Science</i> , 2017 , 450-461	0.9	1
55	Gender identification from facial images: Survey of the state-of-the-art 2017 ,		1
54	The effectiveness of combining the likelihood maps of different filters in improving detection of calcification objects 2015 ,		1
53	An approximation based algorithm for minimum bounding rectangle computation 2014 ,		1
52	Deep Convolutional Network-Based Framework for Melanoma Lesion Detection and Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 51-62	0.9	1
51	Selecting Salient Features from Facial Components for Face Recognition. <i>Lecture Notes in Computer Science</i> , 2018 , 63-75	0.9	1

50	Purity and Out of Bag Confidence Metrics for Random Forest Weighting. <i>Lecture Notes in Computer Science</i> , 2018 , 491-502	0.9	1
49	Fully Convolutional Encoder-Decoder Architecture (FCEDA) for Skin Lesions Segmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 426-437	0.9	1
48	Image Preprocessing Techniques for Facial Expression Recognition with Canny and Kirsch Edge Detectors. <i>Lecture Notes in Computer Science</i> , 2019 , 85-96	0.9	1
47	Macroscopic Skin Lesion Segmentation Using GrabCut. <i>Lecture Notes in Computer Science</i> , 2020 , 528-539	0.9	1
46	Scene Classification of Remote Sensing Images Based on ConvNet Features and Multi-grained Forest. <i>Lecture Notes in Computer Science</i> , 2020 , 731-740	0.9	1
45	Deep Forest Approach for Facial Expression Recognition. <i>Lecture Notes in Computer Science</i> , 2020 , 149-161	0.9	1
44	Dynamic Local Ternary Patterns for Gender Identification Using Facial Components. <i>Lecture Notes in Computer Science</i> , 2020 , 133-141	0.9	1
43	Unsupervised Caries Detection in Non-standardized Periapical Dental X-Rays. <i>Lecture Notes in Computer Science</i> , 2018 , 329-340	0.9	1
42	Fusion of LBP and Hu-Moments with Fisher Vectors in Remote Sensing Imagery. <i>Lecture Notes in Computer Science</i> , 2019 , 403-413	0.9	1
41	Exploration of Ear Biometrics with Deep Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 25-35	0.9	1
40	Effective Processing of Convolutional Neural Networks for Computer Vision: A Tutorial and Survey. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2020 , 1-14	1.5	1
39	Agglomerative Clustering and Residual-VLAD Encoding for Human Action Recognition. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4412	2.6	1
38	A Lightweight Convolutional Neural Network for Real and Apparent Age Estimation in Unconstrained Face Images. <i>IEEE Access</i> , 2020 , 8, 162800-162808	3.5	1
37	Facial Expression Recognition using Local Directional Pattern variants and Deep Learning 2018 ,		1
36	Contrast Enhancement in Deep Convolutional Neural Networks for Segmentation of Retinal Blood Vessels. <i>Communications in Computer and Information Science</i> , 2021 , 278-290	0.3	1
35	Ensemble of Convolution Neural Networks for Automatic Tuberculosis Classification. <i>Lecture Notes in Computer Science</i> , 2021 , 549-559	0.9	1
34	Ensemble of EfficientNets for the Diagnosis of Tuberculosis.. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 9790894	3	1
33	A Survey of Dental Caries Segmentation and Detection Techniques.. <i>Scientific World Journal, The</i> , 2022 , 2022, 8415705	2.2	1

32	Handwritten Signature Verification Based on Enhanced Direction and Grid Features. <i>Lecture Notes in Computer Science</i> , 2014 , 820-829	0.9	0
31	Retinal Image Segmentation Through Valley Emphasis Thresholding of the Gabor Filter Response. <i>Lecture Notes in Computer Science</i> , 2020 , 516-527	0.9	0
30	A Deep Learning Approach for Automatic Segmentation of Dental Images. <i>Lecture Notes in Computer Science</i> , 2020 , 143-152	0.9	0
29	Melanoma Skin Cancer Classification Using Transfer Learning. <i>Communications in Computer and Information Science</i> , 2020 , 287-297	0.3	0
28	Component-Based Gender Identification Using Local Binary Patterns. <i>Lecture Notes in Computer Science</i> , 2019 , 307-315	0.9	0
27	Exploring the Impact of Purity Gap Gain on the Efficiency and Effectiveness of Random Forest Feature Selection. <i>Lecture Notes in Computer Science</i> , 2019 , 340-352	0.9	0
26	Skeletal Age Estimation from Hand Radiographs Using Ensemble Deep Learning. <i>Lecture Notes in Computer Science</i> , 2021 , 173-183	0.9	0
25	Gender Classification Based on Facial Shape and Texture Features. <i>Lecture Notes in Computer Science</i> , 2018 , 157-166	0.9	0
24	A Systematic Review of Deep Learning Techniques for Tuberculosis Detection From Chest Radiograph.. <i>Frontiers in Medicine</i> , 2022 , 9, 830515	4.9	0
23	Dental Images' Segmentation Using Threshold Connected Component Analysis.. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 2921508	3	0
22	Deep Residual Learning for Human Identification Based on Facial Landmarks. <i>Lecture Notes in Computer Science</i> , 2019 , 61-72	0.9	
21	Mammogram content-based image retrieval based on malignancy classification. <i>Intelligent Data Analysis</i> , 2017 , 21, 1193-1212	1.1	
20	Automatic Baggage Threat Detection Using Deep Attention Networks. <i>Communications in Computer and Information Science</i> , 2022 , 156-173	0.3	
19	Skin Lesion Segmentation Techniques Based on Markov Random Field. <i>Lecture Notes in Computer Science</i> , 2020 , 210-220	0.9	
18	Skeletal Age Estimation from Hand Radiographs Using Transfer Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 165-176	0.9	
17	Underwater Image Enhancement Using Adaptive Algorithms. <i>Lecture Notes in Computer Science</i> , 2021 , 316-326	0.9	
16	Facial Expression Recognition Using Directional Gradient Local Ternary Patterns. <i>Lecture Notes in Computer Science</i> , 2019 , 87-96	0.9	
15	Facial Expression Recognition and Ordinal Intensity Estimation: A Multilabel Learning Approach. <i>Lecture Notes in Computer Science</i> , 2020 , 581-592	0.9	

- 14 Random Forests with a Steepend Gini-Index Split Function and Feature Coherence Injection. *Lecture Notes in Computer Science*, **2020**, 255-272 0.9
- 13 Characterization of Medical Images Using Edge Density and Local Directional Pattern (LDP). *Lecture Notes in Computer Science*, **2015**, 394-401 0.9
- 12 Enhanced Hybrid Component-Based Face Recognition. *Lecture Notes in Computer Science*, **2017**, 257-265 0.9
- 11 Signature Verification Based on Handwritten Text Recognition. *Communications in Computer and Information Science*, **2009**, 98-105 0.3
- 10 Leaf Classification Using Convexity Measure of Polygons. *Lecture Notes in Computer Science*, **2016**, 51-60 0.9
- 9 Enhanced Convolutional Neural Network for Age Estimation. *Lecture Notes in Computer Science*, **2021**, 385-394 0.9
- 8 Dropout Regularization for Automatic Segmented Dental Images. *Communications in Computer and Information Science*, **2021**, 254-265 0.3
- 7 Remote Sensing Scene Classification Based on Effective Feature Learning by Deep Residual Networks. *Lecture Notes in Computer Science*, **2021**, 320-336 0.9
- 6 Weather Characterization from Outdoor Scene Images. *Lecture Notes in Computer Science*, **2018**, 160-170 0.9
- 5 Predictive Memetic Algorithm (PMA) for Combinatorial Optimization in Dynamic Environments. *Lecture Notes in Computer Science*, **2018**, 100-110 0.9
- 4 An Improved Comfort Biased Smart Home Load Manager for Grid Connected Homes Under Direct Load Control. *Lecture Notes in Computer Science*, **2018**, 526-536 0.9
- 3 Towards Exploiting Convolutional Features for Remote Sensing Images Scene Classification. *Communications in Computer and Information Science*, **2021**, 266-277 0.3
- 2 A Patch-Based Convolutional Neural Network for Localized MRI Brain Segmentation. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2022**, 18-32 0.2
- 1 Plant Diseases Detection and Classification Using Transfer Learning. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2022**, 150-166 0.2