

Munish Kumar

List of Publications by Year in descending order

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125
papers

3,953
citations

172386

29
h-index

161767

54
g-index

128
all docs

128
docs citations

128
times ranked

1603
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Deep Learning and Its Applications: A New Paradigm to Machine Learning. Archives of Computational Methods in Engineering, 2020, 27, 1071-1092.	6.0	531
2	Face detection techniques: a review. Artificial Intelligence Review, 2019, 52, 927-948.	9.7	229
3	A healthcare monitoring system using random forest and internet of things (IoT). Multimedia Tools and Applications, 2019, 78, 19905-19916.	2.6	178
4	Face mask detection using YOLOv3 and faster R-CNN models: COVID-19 environment. Multimedia Tools and Applications, 2021, 80, 19753-19768.	2.6	160
5	A comprehensive survey on the biometric recognition systems based on physiological and behavioral modalities. Expert Systems With Applications, 2020, 143, 113114.	4.4	138
6	2D object recognition: a comparative analysis of SIFT, SURF and ORB feature descriptors. Multimedia Tools and Applications, 2021, 80, 18839-18857.	2.6	126
7	2D-human face recognition using SIFT and SURF descriptors of face's feature regions. Visual Computer, 2021, 37, 447-456.	2.5	110
8	Content-based image retrieval system using ORB and SIFT features. Neural Computing and Applications, 2020, 32, 2725-2733.	3.2	103
9	Transfer learning for image classification using VGG19: Caltech-101 image data set. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 3609-3620.	3.3	99
10	Underwater image enhancement using blending of CLAHE and percentile methodologies. Multimedia Tools and Applications, 2018, 77, 26545-26561.	2.6	92
11	DS-CNN: A pre-trained Xception model based on depth-wise separable convolutional neural network for finger vein recognition. Expert Systems With Applications, 2022, 191, 116288.	4.4	82
12	An efficient technique for object recognition using Shi-Tomasi corner detection algorithm. Soft Computing, 2021, 25, 4423-4432.	2.1	78
13	An efficient content based image retrieval system using BayesNet and K-NN. Multimedia Tools and Applications, 2018, 77, 21557-21570.	2.6	60
14	Improved object recognition results using SIFT and ORB feature detector. Multimedia Tools and Applications, 2019, 78, 34157-34171.	2.6	58
15	Plant Species Recognition Using Morphological Features and Adaptive Boosting Methodology. IEEE Access, 2019, 7, 163912-163918.	2.6	58
16	Face detection in still images under occlusion and non-uniform illumination. Multimedia Tools and Applications, 2021, 80, 14565-14590.	2.6	54
17	k-nearest neighbor based offline handwritten Gurmukhi character recognition. , 2011, , .		53
18	Performance evaluation of classifiers for the recognition of offline handwritten Gurmukhi characters and numerals: a study. Artificial Intelligence Review, 2020, 53, 2075-2097.	9.7	53

#	ARTICLE	IF	CITATIONS
19	Character and numeral recognition for non-Indic and Indic scripts: a survey. <i>Artificial Intelligence Review</i> , 2019, 52, 2235-2261.	9.7	52
20	Recent advancements in finger vein recognition technology: Methodology, challenges and opportunities. <i>Information Fusion</i> , 2022, 79, 84-109.	11.7	50
21	Time series data analysis of stock price movement using machine learning techniques. <i>Soft Computing</i> , 2020, 24, 16509-16517.	2.1	48
22	DeepNetDevanagari: a deep learning model for Devanagari ancient character recognition. <i>Multimedia Tools and Applications</i> , 2021, 80, 20671-20686.	2.6	47
23	2D Object Recognition Techniques: State-of-the-Art Work. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 1147-1161.	6.0	46
24	Improved Recognition Results of Medieval Handwritten Gurmukhi Manuscripts Using Boosting and Bagging Methodologies. <i>Neural Processing Letters</i> , 2019, 50, 43-56.	2.0	42
25	Efficient Feature Extraction Techniques for Offline Handwritten Gurmukhi Character Recognition. <i>The National Academy of Sciences, India</i> , 2014, 37, 381-391.	0.8	41
26	On the recognition of Devanagari ancient handwritten characters using SIFT and Gabor features. <i>Soft Computing</i> , 2020, 24, 17279-17289.	2.1	38
27	Gait recognition based on vision systems: A systematic survey. <i>Journal of Visual Communication and Image Representation</i> , 2021, 75, 103052.	1.7	37
28	Fusion of Handcrafted and Deep Features for Forgery Detection in Digital Images. <i>IEEE Access</i> , 2021, 9, 99742-99755.	2.6	37
29	AutoFER: PCA and PSO based automatic facial emotion recognition. <i>Multimedia Tools and Applications</i> , 2021, 80, 3039-3049.	2.6	36
30	A Novel Hierarchical Technique for Offline Handwritten Gurmukhi Character Recognition. <i>The National Academy of Sciences, India</i> , 2014, 37, 567-572.	0.8	33
31	SPREADING OF COVID-19 IN INDIA, ITALY, JAPAN, SPAIN, UK, US. <i>Digital Government Research and Practice (DGOV)</i> , 2020, 1, 1-9.	1.2	30
32	Automatic vehicle detection system in different environment conditions using fast R-CNN. <i>Multimedia Tools and Applications</i> , 2022, 81, 18715-18735.	2.6	30
33	Segmentation of Isolated and Touching Characters in Offline Handwritten Gurmukhi Script Recognition. <i>International Journal of Information Technology and Computer Science</i> , 2014, 6, 58-63.	0.8	29
34	UrduDeepNet: offline handwritten Urdu character recognition using deep neural network. <i>Neural Computing and Applications</i> , 2021, 33, 15229-15252.	3.2	29
35	Writer Identification System for Indic and Non-Indic Scripts: State-of-the-Art Survey. <i>Archives of Computational Methods in Engineering</i> , 2019, 26, 1283-1311.	6.0	28
36	A novel feature extraction technique for offline handwritten Gurmukhi character recognition. <i>IETE Journal of Research</i> , 2013, 59, 687.	1.8	27

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37	Theoretical and empirical analysis of filter ranking methods: Experimental study on benchmark DNA microarray data. <i>Expert Systems With Applications</i> , 2021, 169, 114485.	4.4	27
38	Music mood and human emotion recognition based on physiological signals: a systematic review. <i>Multimedia Systems</i> , 2022, 28, 21-44.	3.0	27
39	Offline handwritten Gurmukhi character recognition. , 2012, , .		26
40	Intrusion detection techniques in network environment: a systematic review. <i>Wireless Networks</i> , 2021, 27, 1269-1285.	2.0	26
41	XGBoost: 2D-Object Recognition Using Shape Descriptors and Extreme Gradient Boosting Classifier. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 207-222.	0.5	26
42	ASRoIL: a comprehensive survey for automatic speech recognition of Indian languages. <i>Artificial Intelligence Review</i> , 2020, 53, 3673-3704.	9.7	25
43	Ancient text recognition: a review. <i>Artificial Intelligence Review</i> , 2020, 53, 5517-5558.	9.7	25
44	Offline Handwritten Gurmukhi Character Recognition: Analytical Study of Different Transformations. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2017, 87, 137-143.	0.8	24
45	Devanagari ancient documents recognition using statistical feature extraction techniques. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2019, 44, 1.	0.8	24
46	A Study on Source Device Attribution Using Still Images. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 2209-2223.	6.0	24
47	Offline handwritten Gurumukhi word recognition using eXtreme Gradient Boosting methodology. <i>Soft Computing</i> , 2021, 25, 4451-4464.	2.1	23
48	A comprehensive survey on word recognition for non-Indic and Indic scripts. <i>Pattern Analysis and Applications</i> , 2018, 21, 897-929.	3.1	22
49	Devanagari ancient character recognition using DCT features with adaptive boosting and bootstrap aggregating. <i>Soft Computing</i> , 2019, 23, 13603-13614.	2.1	22
50	A Systematic Review on Physiological-Based Biometric Recognition Systems: Current and Future Trends. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 4917-4960.	6.0	22
51	Facial Emotion Recognition System Based on PCA and Gradient Features. <i>The National Academy of Sciences, India</i> , 2018, 41, 365-368.	0.8	21
52	Forensic document examination system using boosting and bagging methodologies. <i>Soft Computing</i> , 2020, 24, 5409-5426.	2.1	21
53	An efficient approach for copy-move image forgery detection using convolution neural network. <i>Multimedia Tools and Applications</i> , 2022, 81, 11259-11277.	2.6	21
54	Writer identification system for pre-segmented offline handwritten Devanagari characters using k-NN and SVM. <i>Soft Computing</i> , 2020, 24, 10111-10122.	2.1	20

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55	On the recognition of offline handwritten word using holistic approach and AdaBoost methodology. Multimedia Tools and Applications, 2021, 80, 11155-11175.	2.6	20
56	Fruit quality evaluation using machine learning techniques: review, motivation and future perspectives. Multimedia Tools and Applications, 2022, 81, 16255-16277.	2.6	19
57	AutoSSR: an efficient approach for automatic spontaneous speech recognition model for the Punjabi Language. Soft Computing, 2021, 25, 1617-1630.	2.1	18
58	Finger-vein presentation attack detection using depthwise separable convolution neural network. Expert Systems With Applications, 2022, 198, 116786.	4.4	18
59	Classification of characters and grading writers in offline handwritten Gurmukhi script. , 2011, , .		17
60	Review on OCR for Handwritten Indian Scripts Character Recognition. Communications in Computer and Information Science, 2011, , 268-276.	0.4	17
61	Text and graphics segmentation of newspapers printed in Gurmukhi script: a hybrid approach. Visual Computer, 2021, 37, 1637-1659.	2.5	16
62	Hybrid local phase quantization and grey wolf optimization based SVM for finger vein recognition. Multimedia Tools and Applications, 2021, 80, 15233-15271.	2.6	16
63	A Systematic Survey on CAPTCHA Recognition: Types, Creation and Breaking Techniques. Archives of Computational Methods in Engineering, 2022, 29, 1107-1136.	6.0	16
64	Fusion of RGB and HSV colour space for foggy image quality enhancement. Multimedia Tools and Applications, 2019, 78, 9791-9799.	2.6	15
65	A computational approach for printed document forensics using SURF and ORB features. Soft Computing, 2020, 24, 13197-13208.	2.1	15
66	A Novel Attack on Monochrome and Greyscale Devanagari CAPTCHAs. ACM Transactions on Asian and Low-Resource Language Information Processing, 2021, 20, 1-30.	1.3	15
67	A comprehensive survey of image and video forgery techniques: variants, challenges, and future directions. Multimedia Systems, 2022, 28, 939-992.	3.0	15
68	PCA-based Offline Handwritten Character Recognition System. The Smart Computing Review, 2013, 3, .	0.4	14
69	Image forgery techniques: a review. Artificial Intelligence Review, 2023, 56, 1577-1625.	9.7	14
70	An efficient page ranking approach based on vector norms using sNorm(p) algorithm. Information Processing and Management, 2019, 56, 1053-1066.	5.4	13
71	A Study on Recognition of Pre-segmented Handwritten Multi-lingual Characters. Archives of Computational Methods in Engineering, 2020, 27, 577-589.	6.0	13
72	Recognition of online handwritten Gurmukhi characters using recurrent neural network classifier. Soft Computing, 2021, 25, 6329-6338.	2.1	13

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73	Offline Handwritten Numeral Recognition using Combination of Different Feature Extraction Techniques. The National Academy of Sciences, India, 2018, 41, 29-33.	0.8	12
74	Signature identification and verification techniques: state-of-the-art work. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 1027-1045.	3.3	12
75	Shi-Tomasi corner detector for cattle identification from muzzle print image pattern. Ecological Informatics, 2022, 68, 101549.	2.3	12
76	Performance Comparison of Several Feature Selection Techniques for Offline Handwritten Character Recognition. , 2018, , .		11
77	Drop flow method: an iterative algorithm for complete segmentation of Devanagari ancient manuscripts. Multimedia Tools and Applications, 2019, 78, 23255-23280.	2.6	11
78	Newspaper text recognition of Gurumukhi script using random forest classifier. Multimedia Tools and Applications, 2020, 79, 7435-7448.	2.6	11
79	Feature extraction and classification techniques for handwritten Devanagari text recognition: a survey. Multimedia Tools and Applications, 2023, 82, 747-775.	2.6	11
80	Writer Identification System for Handwritten Gurmukhi Characters: Study of Different Feature-Classifer Combinations. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 125-131.	0.5	10
81	A novel framework for writer identification based on pre-segmented Gurmukhi characters. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.	0.8	10
82	A comprehensive survey on machine translation for English, Hindi and Sanskrit languages. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 3441-3474.	3.3	10
83	Distortion, rotation and scale invariant recognition of hollow Hindi characters. Sadhana - Academy Proceedings in Engineering Sciences, 2022, 47, .	0.8	10
84	Segmentation of lines and words in handwritten Gurmukhi script documents. , 2010, , .		9
85	PCA-based gender classification system using hybridization of features and classification techniques. Soft Computing, 2021, 25, 15281-15295.	2.1	9
86	MDP Feature Extraction Technique for Offline Handwritten Gurmukhi Character Recognition. The Smart Computing Review, 2013, 3, .	0.4	9
87	Last Decade in Vehicle Detection and Classification: A Comprehensive Survey. Archives of Computational Methods in Engineering, 2022, 29, 5259-5296.	6.0	9
88	Benchmark Dataset: Offline Handwritten Gurmukhi City Names for Postal Automation. Communications in Computer and Information Science, 2019, , 152-159.	0.4	8
89	Improved recognition results of offline handwritten Gurumukhi characters using hybrid features and adaptive boosting. Soft Computing, 2021, 25, 11589-11601.	2.1	8
90	Recognition of offline handwritten Urdu characters using RNN and LSTM models. Multimedia Tools and Applications, 2023, 82, 2053-2076.	2.6	8

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91	A Novel Framework for Grading of Writers Using Offline Gurmukhi Characters. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2016, 86, 405-415.	0.8	7
92	Benchmark Datasets for Offline Handwritten Gurmukhi Script Recognition. Communications in Computer and Information Science, 2019, , 143-151.	0.4	6
93	Detection of shilling attack in recommender system for YouTube video statistics using machine learning techniques. Soft Computing, 2023, 27, 377-389.	2.1	6
94	Design of innovative CAPTCHA for hindi language. Neural Computing and Applications, 2022, 34, 4957-4992.	3.2	6
95	Computational intelligence in processing of speech acoustics: a survey. Complex & Intelligent Systems, 2022, 8, 2623-2661.	4.0	6
96	Offline handwritten pre-segmented character recognition of Gurmukhi script. Machine Graphics and Vision, 2016, 25, 45-55.	0.0	6
97	Object detection using multiple shape-based features. , 2016, , .		5
98	A Novel Technique for Line Segmentation in Offline Handwritten Gurmukhi Script Documents. The National Academy of Sciences, India, 2017, 40, 273-277.	0.8	5
99	Title is missing!. Indian Journal of Science and Technology, 2017, 10, 1-8.	0.5	5
100	FEMT: a computational approach for fog elimination using multiple thresholds. Multimedia Tools and Applications, 2021, 80, 227-241.	2.6	5
101	Gender Classification and Writer Identification System based on Handwriting in Gurumukhi Script. , 2021, , .		5
102	An efficient method of multicolor detection using global optimum thresholding for image analysis. Multimedia Tools and Applications, 2021, 80, 18969-18991.	2.6	5
103	Performance evaluation of different features and classifiers for Gurumukhi newspaper text recognition. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 10245-10261.	3.3	5
104	Line Segmentation of Devanagari Ancient Manuscripts. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2020, 90, 717-724.	0.8	4
105	Weka-Based Classification Techniques for Offline Handwritten Gurmukhi Character Recognition. Advances in Intelligent Systems and Computing, 2014, , 711-720.	0.5	4
106	Newspaper Text Recognition Printed in Gurumukhi Script: SVM Versus MLP. Studies in Autonomic, Data-driven and Industrial Computing, 2021, , 23-37.	0.4	3
107	Performance Evaluation of Various Feature Selection Techniques for Offline Handwritten Gurumukhi Place Name Recognition. Studies in Autonomic, Data-driven and Industrial Computing, 2021, , 559-571.	0.4	3
108	A Benchmark Dataset of Online Handwritten Gurmukhi Script Words and Numerals. Communications in Computer and Information Science, 2020, , 457-466.	0.4	3

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109	Writer Identification System Based on Offline Handwritten Text in Gurumukhi Script. , 2020, , .		3
110	Semi-supervised labeling: a proposed methodology for labeling the twitter datasets. Multimedia Tools and Applications, 2022, 81, 7669-7683.	2.6	3
111	Cattle identification with muzzle pattern using computer vision technology: a critical review and prospective. Soft Computing, 2022, 26, 4771-4795.	2.1	3
112	A deep learning approach for classification and diagnosis of Parkinsonâ€™s disease. Soft Computing, 2022, 26, 9155-9165.	2.1	3
113	Zone Segmentation of a Text Line Printed in Gurmukhi Script Newspaper. , 2018, , .		2
114	Recognition of newspaper printed in Gurumukhi script. Journal of Central South University, 2019, 26, 2495-2503.	1.2	2
115	Prediction of the mortality rate and framework for remote monitoring of pregnant women based on IoT. Multimedia Tools and Applications, 2021, 80, 24555.	2.6	2
116	TxtLineSeg: Text Line Segmentation of Unconstrained Printed Text in Devanagari Script. Advances in Intelligent Systems and Computing, 2021, , 85-100.	0.5	2
117	Clustering of Multi Scripts Isolated Characters Using k-Means Algorithm. International Journal of Mathematical Sciences and Computing, 2015, 1, 22-29.	0.7	2
118	Recommender system: prediction/diagnosis of breast cancer using hybrid machine learning algorithm. Multimedia Tools and Applications, 2022, 81, 9939-9948.	2.6	2
119	Performance Comparison of Various Feature Extraction Methods for Object Recognition on Caltech-101 Image Dataset. Lecture Notes in Electrical Engineering, 2021, , 289-303.	0.3	1
120	LineSeg: line segmentation of scanned newspaper documents. Pattern Analysis and Applications, 0, , 1.	3.1	1
121	A New Approach for Web Page Ranking Solution: sNorm (p) Algorithm. International Journal of Computer Applications, 2010, 9, 20-23.	0.2	1
122	Comparing the Effectiveness of PAGERANK, HITS and sNorm (p) Web Page Ranking Algorithms. International Journal of Computer Applications, 2010, 11, 1-4.	0.2	1
123	Artificial Intelligence for Cybersecurity: Recent Advancements, Challenges and Opportunities. Studies in Computational Intelligence, 2022, , 73-88.	0.7	1
124	Feature Extraction Techniques for Gender Classification Based on Handwritten Text: A Critical Review. Lecture Notes in Networks and Systems, 2023, , 191-201.	0.5	1
125	Pulmonary Lesion Detection and Staging from CT Images Using Watershed Algorithm. , 2018, , .		0