

Ram Sarkar

List of Publications by Year in Descending Order

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Version: 2024-04-23

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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.

290
papers

2,824
citations

23
h-index

38
g-index

313
ext. papers

4,487
ext. citations

3.1
avg, IF

6.34
L-index

#	Paper	IF	Citations
290	Py_FS: A Python Package for Feature Selection Using Meta-Heuristic Optimization Algorithms. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 495-504	0.4	1
289	MIRFCS: An Ensemble of Filter Methods for Classification of Disease Data. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 205-217	0.4	0
288	SinLU: Sinu-Sigmoidal Linear Unit. <i>Mathematics</i> , 2022 , 10, 337	2.3	0
287	Inverted bell-curve-based ensemble of deep learning models for detection of COVID-19 from chest X-rays.. <i>Neural Computing and Applications</i> , 2022 , 1-15	4.8	12
286	3D Human Action Recognition: Through the eyes of researchers. <i>Expert Systems With Applications</i> , 2022 , 193, 116424	7.8	0
285	An optimized fuzzy ensemble of convolutional neural networks for detecting tuberculosis from Chest X-ray images. <i>Applied Soft Computing Journal</i> , 2022 , 114, 108094	7.5	4
284	Fuzzy ensemble of deep learning models using choquet fuzzy integral, coalition game and information theory for breast cancer histology classification. <i>Expert Systems With Applications</i> , 2022 , 190, 116167	7.8	5
283	Screening of breast cancer from thermogram images by edge detection aided deep transfer learning model.. <i>Multimedia Tools and Applications</i> , 2022 , 1-19	2.5	3
282	COVID-19 detection from CT scans using a two-stage framework.. <i>Expert Systems With Applications</i> , 2022 , 193, 116377	7.8	2
281	COFE-Net: An ensemble strategy for Computer-Aided Detection for COVID-19. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022 , 187, 110289	4.6	4
280	A Case Study on Handwritten Indic Script Classification: Benchmarking of the Results at Page, Block, Text-line, and Word Levels. <i>ACM Transactions on Asian and Low-Resource Language Information Processing</i> , 2022 , 21, 1-36	1.1	
279	Genetic Dropout: An Application to Handwritten Indic Script Classification. <i>Lecture Notes in Networks and Systems</i> , 2022 , 3-13	0.5	1
278	An efficient slime mould algorithm for solving multi-objective optimization problems. <i>Expert Systems With Applications</i> , 2022 , 187, 115870	7.8	18
277	NoFED-Net: Non-Linear Fuzzy Ensemble of Deep Neural Networks for Human Activity Recognition. <i>IEEE Internet of Things Journal</i> , 2022 , 1-1	10.7	2
276	A union of deep learning and swarm-based optimization for 3D human action recognition.. <i>Scientific Reports</i> , 2022 , 12, 5494	4.9	7
275	AltWOA: Altruistic Whale Optimization Algorithm for feature selection on microarray datasets.. <i>Computers in Biology and Medicine</i> , 2022 , 144, 105349	7	6
274	DRDA-Net: Dense residual dual-shuffle attention network for breast cancer classification using histopathological images.. <i>Computers in Biology and Medicine</i> , 2022 , 145, 105437	7	5

273	A fuzzy distance-based ensemble of deep models for cervical cancer detection.. <i>Computer Methods and Programs in Biomedicine</i> , 2022 , 219, 106776	6.9	4
272	BLeafNet: A Bonferroni mean operator based fusion of CNN models for plant identification using leaf image classification. <i>Ecological Informatics</i> , 2022 , 69, 101585	4.2	4
271	MFSNet: A multi focus segmentation network for skin lesion segmentation. <i>Pattern Recognition</i> , 2022 , 128, 108673	7.7	2
270	Binary Simulated Normal Distribution Optimizer for feature selection: Theory and application in COVID-19 datasets. <i>Expert Systems With Applications</i> , 2022 , 200, 116834	7.8	4
269	A Deep Feature Selection Method for Tumor Classification in Breast Ultrasound Images. <i>Lecture Notes in Networks and Systems</i> , 2022 , 241-252	0.5	0
268	A Feature Fusion Based Deep Learning Model for Deepfake Video Detection. <i>Lecture Notes in Networks and Systems</i> , 2022 , 197-206	0.5	0
267	An Ensemble of CNN Models for Parkinson Disease Detection Using DaTscan Images. <i>Diagnostics</i> , 2022 , 12, 1173	3.8	1
266	A Bright-on-Dark, Dark-on-Bright Approach to Multi-lingual Scene Text Detection. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 191-199	0.4	
265	Breast cancer detection from thermal images using a Grunwald-Letnikov-aided Dragonfly algorithm-based deep feature selection method. <i>Computers in Biology and Medicine</i> , 2021 , 141, 105027	7	6
264	Retraction Note: GraphCovidNet: A graph neural network based model for detecting COVID-19 from CT scans and X-rays of chest. <i>Scientific Reports</i> , 2021 , 11, 23451	4.9	1
263	MMHAR-EnsemNet: A Multi-Modal Human Activity Recognition Model. <i>IEEE Sensors Journal</i> , 2021 , 21, 11569-11576	4	4
262	A deep learning model for classifying human facial expressions from infrared thermal images. <i>Scientific Reports</i> , 2021 , 11, 20696	4.9	6
261	JUMRv1: A Sentiment Analysis Dataset for Movie Recommendation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9381	2.6	2
260	Learning automata based particle swarm optimization for solving class imbalance problem. <i>Applied Soft Computing Journal</i> , 2021 , 113, 107959	7.5	1
259	SV-NET: A Deep Learning Approach to Video Based Human Activity Recognition. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 10-20	0.4	2
258	DAN : Breast Cancer Classification from High-Resolution Histology Images Using Deep Attention Network. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 319-326	0.4	2
257	Transfer learning with fine tuning for human action recognition from still images. <i>Multimedia Tools and Applications</i> , 2021 , 80, 20547-20578	2.5	4
256	Hybridization of ring theory-based evolutionary algorithm and particle swarm optimization to solve class imbalance problem. <i>Complex & Intelligent Systems</i> , 2021 , 7, 2069	7.1	3

255	Median Filter Aided CNN Based Image Denoising: An Ensemble Approach. <i>Algorithms</i> , 2021 , 14, 109	1.8	2
254	Detection of COVID-19 from CT scan images: A spiking neural network-based approach. <i>Neural Computing and Applications</i> , 2021 , 33, 1-14	4.8	18
253	A bi-stage feature selection approach for COVID-19 prediction using chest CT images. <i>Applied Intelligence</i> , 2021 , 51, 1-16	4.9	26
252	A two-stage CNN-based hand-drawn electrical and electronic circuit component recognition system. <i>Neural Computing and Applications</i> , 2021 , 33, 13367	4.8	2
251	A new feature extraction approach for script invariant handwritten numeral recognition. <i>Expert Systems</i> , 2021 , 38, e12699	2.1	1
250	GraphCovidNet: A graph neural network based model for detecting COVID-19 from CT scans and X-rays of chest. <i>Scientific Reports</i> , 2021 , 11, 8304	4.9	15
249	Computer Aided Breast Cancer Detection Using Ensembling of Texture and Statistical Image Features. <i>Sensors</i> , 2021 , 21,	3.8	3
248	Generation of Synthetic Chest X-ray Images and Detection of COVID-19: A Deep Learning Based Approach. <i>Diagnostics</i> , 2021 , 11,	3.8	12
247	Microstructure Image Classification: A Classifier Combination Approach Using Fuzzy Integral Measure. <i>Integrating Materials and Manufacturing Innovation</i> , 2021 , 10, 286-298	2.9	3
246	Hough Transform-Based Angular Features for Learning-Free Handwritten Keyword Spotting. <i>Sensors</i> , 2021 , 21,	3.8	2
245	Fuzzy rank-based fusion of CNN models using Gompertz function for screening COVID-19 CT-scans. <i>Scientific Reports</i> , 2021 , 11, 14133	4.9	27
244	A fuzzy rank-based ensemble of CNN models for classification of cervical cytology. <i>Scientific Reports</i> , 2021 , 11, 14538	4.9	13
243	An image database of handwritten Bangla words with automatic benchmarking facilities for character segmentation algorithms. <i>Neural Computing and Applications</i> , 2021 , 33, 449-468	4.8	6
242	Application of Lah transform for security and privacy of data through information hiding in telecommunication. <i>Transactions on Emerging Telecommunications Technologies</i> , 2021 , 32, e3984	1.9	9
241	Deluge based Genetic Algorithm for feature selection. <i>Evolutionary Intelligence</i> , 2021 , 14, 357-367	1.7	28
240	Improved coral reefs optimization with adaptive (beta)-hill climbing for feature selection. <i>Neural Computing and Applications</i> , 2021 , 33, 6467-6486	4.8	3
239	Language-invariant novel feature descriptors for handwritten numeral recognition. <i>Visual Computer</i> , 2021 , 37, 1781-1803	2.3	10
238	Understanding contents of filled-in Bangla form images. <i>Multimedia Tools and Applications</i> , 2021 , 80, 3529-3570	2.5	7

237	Image steganography based on Kirsch edge detection. <i>Multimedia Systems</i> , 2021 , 27, 73-87	2.2	7
236	An ensemble-based hotel recommender system using sentiment analysis and aspect categorization of hotel reviews. <i>Applied Soft Computing Journal</i> , 2021 , 98, 106935	7.5	20
235	FuzzyGCP: A deep learning architecture for automatic spoken language identification from speech signals. <i>Expert Systems With Applications</i> , 2021 , 168, 114416	7.8	6
234	BINYAS: a complex document layout analysis system. <i>Multimedia Tools and Applications</i> , 2021 , 80, 8471-8594	2.9	3
233	HP_DocPres: a method for classifying printed and handwritten texts in doctor's prescription. <i>Multimedia Tools and Applications</i> , 2021 , 80, 9779-9812	2.5	1
232	Machine learning method to predict and analyse transient temperature in submerged arc welding. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 170, 108713	4.6	4
231	Theoretical and empirical analysis of filter ranking methods: Experimental study on benchmark DNA microarray data. <i>Expert Systems With Applications</i> , 2021 , 169, 114485	7.8	11
230	Moth Swarm Algorithm for Image Contrast Enhancement. <i>Knowledge-Based Systems</i> , 2021 , 212, 106607	7.3	9
229	A non-parametric binarization method based on ensemble of clustering algorithms. <i>Multimedia Tools and Applications</i> , 2021 , 80, 7653-7673	2.5	9
228	BOB: a bi-level overlapped binning procedure for scene word binarization. <i>Multimedia Tools and Applications</i> , 2021 , 80, 7609-7635	2.5	1
227	Application of daisy descriptor for language identification in the wild. <i>Multimedia Tools and Applications</i> , 2021 , 80, 323-344	2.5	3
226	Language identification from multi-lingual scene text images: a CNN based classifier ensemble approach. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 7997-8008	3.7	4
225	CGA: a new feature selection model for visual human action recognition. <i>Neural Computing and Applications</i> , 2021 , 33, 5267-5286	4.8	18
224	Coalition game based feature selection for text non-text separation in handwritten documents using LBP based features. <i>Multimedia Tools and Applications</i> , 2021 , 80, 3229-3249	2.5	
223	Fuzzy Integral-Based CNN Classifier Fusion for 3D Skeleton Action Recognition. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 31, 2206-2216	6.4	19
222	Deep learning approaches to scene text detection: a comprehensive review. <i>Artificial Intelligence Review</i> , 2021 , 54, 3239-3298	9.7	7
221	Secured image steganography based on Catalan transform. <i>Multimedia Tools and Applications</i> , 2021 , 80, 14495-14520	2.5	7
220	tsegGAN: A Generative Adversarial Network for Segmenting Touching Nontext Components From Text Ones in Handwriting. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	3

219	Choquet Integral and Coalition Game-Based Ensemble of Deep Learning Models for COVID-19 Screening From Chest X-Ray Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 4328-4339	7.3	1
218	A Framework for Multi-lingual Scene Text Detection Using K-means++ and Memetic Algorithms. <i>Studies in Big Data</i> , 2021 , 167-187	0.9	
217	Imbalance Rectification Using Venn Diagram-Based Ensemble of Undersampling Methods for Disease Datasets. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 371-382	0.4	
216	Fuzzy-Based Pseudo Segmentation Approach for Handwritten Word Recognition Using a Sequence to Sequence Model with Attention. <i>Lecture Notes in Computer Science</i> , 2021 , 582-596	0.9	2
215	A Hybrid Swarm and Gravitation-based feature selection algorithm for handwritten Indic script classification problem. <i>Complex & Intelligent Systems</i> , 2021 , 7, 823-839	7.1	3
214	An Ensemble Approach for Handling Class Imbalanced Disease Datasets. <i>Algorithms for Intelligent Systems</i> , 2021 , 345-355	0.5	1
213	COVID-19 Detection by Optimizing Deep Residual Features with Improved Clustering-Based Golden Ratio Optimizer. <i>Diagnostics</i> , 2021 , 11,	3.8	20
212	Prediction of COVID-19 from Chest CT Images Using an Ensemble of Deep Learning Models. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7004	2.6	15
211	Quantum squirrel inspired algorithm for gene selection in methylation and expression data of prostate cancer. <i>Applied Soft Computing Journal</i> , 2021 , 105, 107221	7.5	4
210	Classification of Apple Disease Based on Non-Linear Deep Features. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6422	2.6	5
209	Bi-Level Prediction Model for Screening COVID-19 Patients Using Chest X-Ray Images. <i>Big Data Research</i> , 2021 , 25, 100233	3.7	14
208	Choquet fuzzy integral-based classifier ensemble technique for COVID-19 detection. <i>Computers in Biology and Medicine</i> , 2021 , 135, 104585	7	13
207	ET-NET: an ensemble of transfer learning models for prediction of COVID-19 infection through chest CT-scan images. <i>Multimedia Tools and Applications</i> , 2021 , 1-20	2.5	9
206	A Tri-Stage Wrapper-Filter Feature Selection Framework for Disease Classification. <i>Sensors</i> , 2021 , 21,	3.8	18
205	Ensemble of Deep Learning Models for Sleep Apnea Detection: An Experimental Study. <i>Sensors</i> , 2021 , 21,	3.8	3
204	Image steganography using deep learning based edge detection. <i>Multimedia Tools and Applications</i> , 2021 , 80, 33475	2.5	3
203	A two-tier feature selection method using Coalition game and Nystrom sampling for screening COVID-19 from chest X-Ray images. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 1-16	3.7	3
202	AIEOU: Automata-based improved equilibrium optimizer with U-shaped transfer function for feature selection. <i>Knowledge-Based Systems</i> , 2021 , 228, 107283	7.3	7

201	Pneumonia detection in chest X-ray images using an ensemble of deep learning models. <i>PLoS ONE</i> , 2021 , 16, e0256630	3.7	13
200	A two-phase gradient based feature embedding approach. <i>Journal of Information Security and Applications</i> , 2021 , 61, 102898	3.5	
199	COVID-19 detection from lung CT-Scans using a fuzzy integral-based CNN ensemble. <i>Computers in Biology and Medicine</i> , 2021 , 138, 104895	7	6
198	Harris Hawks optimisation with Simulated Annealing as a deep feature selection method for screening of COVID-19 CT-scans. <i>Applied Soft Computing Journal</i> , 2021 , 111, 107698	7.5	9
197	Segmentation of brain MRI using an altruistic Harris Hawks Optimization algorithm. <i>Knowledge-Based Systems</i> , 2021 , 232, 107468	7.3	3
196	BYANJON: A Ground Truth Preparation System for Online Handwritten Bangla Documents. <i>ACM Transactions on Asian and Low-Resource Language Information Processing</i> , 2021 , 20, 1-16	1.1	0
195	Distance transform based text-line extraction from unconstrained handwritten document images. <i>Expert Systems With Applications</i> , 2021 , 186, 115666	7.8	1
194	A new wrapper feature selection method for language-invariant offline signature verification. <i>Expert Systems With Applications</i> , 2021 , 186, 115756	7.8	5
193	Recognition of Online Handwritten Bangla and Devanagari Basic Characters: A Transfer Learning Approach. <i>Communications in Computer and Information Science</i> , 2021 , 530-541	0.3	0
192	An Improved Salp Swarm Algorithm Based on Adaptive (upbeta)-Hill Climbing for Stock Market Prediction. <i>Communications in Computer and Information Science</i> , 2021 , 107-121	0.3	1
191	A voting-based technique for word spotting in handwritten document images. <i>Multimedia Tools and Applications</i> , 2021 , 80, 12411-12434	2.5	4
190	Handwritten Digit String Recognition using Deep Autoencoder based Segmentation and ResNet based Recognition Approach 2021 ,		2
189	S-shaped versus V-shaped transfer functions for binary Manta ray foraging optimization in feature selection problem. <i>Neural Computing and Applications</i> , 2021 , 33, 11027	4.8	21
188	A Harmony Search-Based Wrapper-Filter Feature Selection Approach for Microstructural Image Classification. <i>Integrating Materials and Manufacturing Innovation</i> , 2021 , 10, 1-19	2.9	5
187	. <i>IEEE Access</i> , 2021 , 9, 85672-85689	3.5	4
186	Genetic Algorithm Based Global and Local Feature Selection Approach for Handwritten Numeral Recognition. <i>Studies in Computational Intelligence</i> , 2021 , 745-769	0.8	1
185	Carcinoma type classification from high-resolution breast microscopy images using a hybrid ensemble of deep convolutional features and gradient boosting trees classifiers. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2021 , PP,	3	7
184	MRFRO: a hybrid meta-heuristic feature selection method for screening COVID-19 using deep features.. <i>Scientific Reports</i> , 2021 , 11, 24065	4.9	1

183	Revise-Net: Exploiting Reverse Attention Mechanism for Salient Object Detection. <i>Remote Sensing</i> , 2021 , 13, 4941	5	6
182	Late Acceptance Hill Climbing Based Social Ski Driver Algorithm for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 75393-75408	3.5	30
181	Introducing clustering based population in Binary Gravitational Search Algorithm for Feature Selection. <i>Applied Soft Computing Journal</i> , 2020 , 93, 106341	7.5	14
180	A two-stage approach towards protein secondary structure classification. <i>Medical and Biological Engineering and Computing</i> , 2020 , 58, 1723-1737	3.1	10
179	Binary Social Mimic Optimization Algorithm With X-Shaped Transfer Function for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 97890-97906	3.5	22
178	Mutually Informed Correlation Coefficient (MICC) - a New Filter Based Feature Selection Method 2020 ,		8
177	Circuit Component Detection in Offline Handdrawn Electrical/Electronic Circuit Diagram 2020 ,		2
176	Infrared imaging based machine vision system to determine transient shape of isotherms in submerged arc welding. <i>Infrared Physics and Technology</i> , 2020 , 109, 103410	2.7	3
175	Hybrid of Harmony Search Algorithm and Ring Theory-Based Evolutionary Algorithm for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 102629-102645	3.5	25
174	Selective Opposition based Grey Wolf Optimization. <i>Expert Systems With Applications</i> , 2020 , 151, 113389-113400	7.8	67
173	Handwritten word recognition using lottery ticket hypothesis based pruned CNN model: a new benchmark on CMATERdb2.1.2. <i>Neural Computing and Applications</i> , 2020 , 32, 15209-15220	4.8	3
172	Document Image Binarization Using Dual Discriminator Generative Adversarial Networks. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 1090-1094	3.2	10
171	Multi-lingual scene text detection and language identification. <i>Pattern Recognition Letters</i> , 2020 , 138, 16-22	4.7	16
170	Feature Selection for Facial Emotion Recognition Using Cosine Similarity-Based Harmony Search Algorithm. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2816	2.6	21
169	Improved Binary Sailfish Optimizer Based on Adaptive Hill Climbing for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 83548-83560	3.5	43
168	Handwritten Arabic numerals recognition using convolutional neural network. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 11, 5445-5457	3.7	13
167	Extended exploiting modification direction based steganography using hashed-weightage Array. <i>Multimedia Tools and Applications</i> , 2020 , 79, 20973-20993	2.5	5
166	. <i>IEEE Sensors Journal</i> , 2020 , 1-1	4	12

165	U-Net versus Pix2Pix: a comparative study on degraded document image binarization. <i>Journal of Electronic Imaging</i> , 2020 , 29,	0.7	2
164	Identification of Biomarker on Biological and Gene Expression data using Fuzzy Preference Based Rough Set. <i>Journal of Intelligent Systems</i> , 2020 , 30, 130-141	1.5	4
163	Classification of Text regions in a Document Image by Analyzing the properties of Connected Components 2020 ,		1
162	A Comparative Study of Different Feature Descriptors for Video-Based Human Action Recognition. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 35-52	0.4	2
161	Online Bangla handwritten word recognition using HMM and language model. <i>Neural Computing and Applications</i> , 2020 , 32, 9939-9951	4.8	0
160	LSB based steganography with OCR: an intelligent amalgamation. <i>Multimedia Tools and Applications</i> , 2020 , 79, 11747-11765	2.5	11
159	Gray Level Image Contrast Enhancement Using Barnacles Mating Optimizer. <i>IEEE Access</i> , 2020 , 8, 169196-169214	3.5	14
158	Fuzzy mutation embedded hybrids of gravitational search and Particle Swarm Optimization methods for engineering design problems. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 95, 103847	7.2	7
157	Handwritten Digit Classification in Bangla and Hindi Using Deep Learning. <i>Applied Artificial Intelligence</i> , 2020 , 34, 1074-1099	2.3	6
156	Embedded chaotic whale survival algorithm for filter wrapper feature selection. <i>Soft Computing</i> , 2020 , 24, 12821-12843	3.5	22
155	CTRL TapTuRedLight: a novel feature descriptor for online Assamese numeral recognition. <i>Multimedia Tools and Applications</i> , 2020 , 80, 30033	2.5	
154	Multilingual Scene Text Detection Using Gradient Morphology. <i>International Journal of Computer Vision and Image Processing</i> , 2020 , 10, 31-43	0.7	5
153	A weighted ensemble-based active learning model to label microarray data. <i>Medical and Biological Engineering and Computing</i> , 2020 , 58, 2427-2441	3.1	1
152	. <i>IEEE Access</i> , 2020 , 8, 182868-182887	3.5	10
151	A Hybrid Meta-Heuristic Feature Selection Method for Identification of Indian Spoken Languages From Audio Signals. <i>IEEE Access</i> , 2020 , 8, 181432-181449	3.5	9
150	Mayfly in Harmony: A New Hybrid Meta-Heuristic Feature Selection Algorithm. <i>IEEE Access</i> , 2020 , 8, 195929-195945	3.9	32
149	An ensemble approach to outlier detection using some conventional clustering algorithms. <i>Multimedia Tools and Applications</i> , 2020 , 1	2.5	2
148	EHHM: Electrical Harmony Based Hybrid Meta-Heuristic for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 158135-158141	3.5	11

147	Offline hand-drawn circuit component recognition using texture and shape-based features. <i>Multimedia Tools and Applications</i> , 2020 , 79, 31353-31373	2.5	2
146	EnsemConvNet: a deep learning approach for human activity recognition using smartphone sensors for healthcare applications. <i>Multimedia Tools and Applications</i> , 2020 , 79, 31663-31690	2.5	23
145	Offline music symbol recognition using Daisy feature and quantum Grey wolf optimization based feature selection. <i>Multimedia Tools and Applications</i> , 2020 , 79, 32011-32036	2.5	6
144	A Novel Approach Towards Handwritten Digit Recognition Using Refraction Property of Light Rays. <i>International Journal of Computer Vision and Image Processing</i> , 2020 , 10, 1-17	0.7	2
143	. <i>IEEE Access</i> , 2020 , 8, 200953-200970	3.5	14
142	A novel segmentation technique for online handwritten Bangla words. <i>Pattern Recognition Letters</i> , 2020 , 139, 26-33	4.7	8
141	A GA based hierarchical feature selection approach for handwritten word recognition. <i>Neural Computing and Applications</i> , 2020 , 32, 2533-2552	4.8	38
140	Understanding NFC-Net: a deep learning approach to word-level handwritten Indic script recognition. <i>Neural Computing and Applications</i> , 2020 , 32, 7879-7895	4.8	8
139	A wrapper-filter feature selection technique based on ant colony optimization. <i>Neural Computing and Applications</i> , 2020 , 32, 7839-7857	4.8	38
138	Text-line extraction from handwritten document images using GAN. <i>Expert Systems With Applications</i> , 2020 , 140, 112916	7.8	15
137	Parameter Tuning in MSER for Text Localization in Multi-lingual Camera-Captured Scene Text Images. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 999-1009	0.4	5
136	Binary Genetic Swarm Optimization: A Combination of GA and PSO for Feature Selection. <i>Journal of Intelligent Systems</i> , 2019 , 29, 1598-1610	1.5	18
135	A histogram based fuzzy ensemble technique for feature selection. <i>Evolutionary Intelligence</i> , 2019 , 12, 713-724	1.7	10
134	Multi-lingual Scene Text Detection by Local Histogram Analysis and Selection of Optimal Area for MSER. <i>Communications in Computer and Information Science</i> , 2019 , 234-242	0.3	5
133	Feature selection for facial emotion recognition using late hill-climbing based memetic algorithm. <i>Multimedia Tools and Applications</i> , 2019 , 78, 25753-25779	2.5	24
132	Multi-Lingual Scene Text Detection Using One-Class Classifier. <i>International Journal of Computer Vision and Image Processing</i> , 2019 , 9, 48-65	0.7	13
131	Novel approaches towards slope and slant correction for tri-script handwritten word images. <i>Imaging Science Journal</i> , 2019 , 67, 159-170	0.9	8
130	Feature Selection for Handwritten Word Recognition Using Memetic Algorithm. <i>Studies in Computational Intelligence</i> , 2019 , 103-124	0.8	15

129	Genetic algorithm based cancerous gene identification from microarray data using ensemble of filter methods. <i>Medical and Biological Engineering and Computing</i> , 2019 , 57, 159-176	3.1	65
128	A Two-Stage Approach for Text and Non-text Separation from Handwritten Scientific Document Images. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 41-51	0.4	2
127	Recursive Memetic Algorithm for gene selection in microarray data. <i>Expert Systems With Applications</i> , 2019 , 116, 172-185	7.8	66
126	DFA-Based Online Bangla Character Recognition. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 175-183	0.4	1
125	An Advanced Particle Swarm Optimization Based Feature Selection Method for Tri-script Handwritten Digit Recognition. <i>Communications in Computer and Information Science</i> , 2019 , 82-94	0.3	4
124	A clustering-based feature selection framework for handwritten Indic script classification. <i>Expert Systems</i> , 2019 , 36, e12459	2.1	12
123	Textual Content Retrieval from Filled-in Form Images. <i>Communications in Computer and Information Science</i> , 2019 , 27-37	0.3	7
122	Normalization of unconstrained handwritten words in terms of Slope and Slant Correction. <i>Pattern Recognition Letters</i> , 2019 , 128, 488-495	4.7	5
121	Online Handwritten Bangla Character Recognition Using Frechet Distance and Distance Based Features. <i>Communications in Computer and Information Science</i> , 2019 , 65-73	0.3	0
120	Filter Method Ensemble with Neural Networks. <i>Lecture Notes in Computer Science</i> , 2019 , 755-765	0.9	2
119	Multi-lingual Text Localization from Camera Captured Images Based on Foreground Homogeneity Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 149-158	0.4	14
118	Script Identification from Camera-Captured Multi-script Scene Text Components. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 159-166	0.4	9
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70	Recognition of offline handwritten Devanagari numerals using regional weighted run length features 2016 ,		4
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14	S-Shaped versus V-Shaped Transfer Functions for Binary Manta Ray Foraging Optimization in Feature Selection Problem		3
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