

# Sankhadeep Chatterjee

## List of Publications by Year in descending order

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76  
papers

1,503  
citations

516215

16  
h-index

454577

30  
g-index

79  
all docs

79  
docs citations

79  
times ranked

780  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Forecasting COVID-19 Outbreak Through Fusion of Internet Search, Social Media, and Air Quality Data: A Retrospective Study in Indian Context. IEEE Transactions on Computational Social Systems, 2023, 10, 1017-1028.    | 3.2 | 2         |
| 2  | An Unsupervised Fuzzy Clustering Approach for Early Screening of COVID-19 From Radiological Images. IEEE Transactions on Fuzzy Systems, 2022, 30, 2902-2914.   | 6.5 | 17        |
| 3  | Improving Facial Emotion Recognition Using Residual Autoencoder Coupled Affinity Based Overlapping Reduction. Mathematics, 2022, 10, 406.  | 1.1 | 5         |
| 4  | Application of random forest in detection of Parkinson's disease. , 2022, , 125-133.   |     | 0         |
| 5  | Detection of HIV-1 progression phases from transcriptional profiles in ex vivo CD4+ and CD8+ T cells using meta-heuristic supported artificial neural network. Multimedia Tools and Applications, 2022, 81, 15103-15126. | 2.6 | 5         |
| 6  | Improved Twitter Sarcasm Detection by Addressing Imbalanced Class Problem. Lecture Notes in Networks and Systems, 2021, , 135-145.   | 0.5 | 2         |
| 7  | An Image Security Method Based on Low Dimensional Chaotic Environment and DNA Encoding. Lecture Notes in Networks and Systems, 2021, , 267-277.  | 0.5 | 1         |
| 8  | Performance Improvement of Artificial Neural Networks by Addressing Class Overlapping Problem. Lecture Notes in Networks and Systems, 2021, , 229-237.   | 0.5 | 2         |
| 9  | A robust image encryption framework based on DNA computing and chaotic environment. Microsystem Technologies, 2021, 27, 3617-3627.   | 1.2 | 14        |
| 10 | Performance Improvement of Convolutional Neural Network Using Random Under Sampling. Lecture Notes in Networks and Systems, 2021, , 207-217.   | 0.5 | 3         |
| 11 | Multilabel Sentiment Prediction by Addressing Imbalanced Class Problem Using Oversampling. Lecture Notes in Networks and Systems, 2021, , 239-249.   | 0.5 | 2         |
| 12 | Effects of Class Imbalance Problem in Convolutional Neural Network Based Image Classification. Lecture Notes in Networks and Systems, 2021, , 181-191.   | 0.5 | 3         |
| 13 | A Biomedical Image Segmentation Approach Using Darwinian Particle Swarm Optimization and Thresholding. Lecture Notes in Networks and Systems, 2021, , 259-266.   | 0.5 | 0         |
| 14 | FOFO: Fused Oversampling Framework by addressing Outliers. , 2021, , .   |     | 1         |
| 15 | Oversampling using Fuzzy Rough Set Theory in Imbalanced Neural based Diabetic patient Readmission Prediction: A hybrid approach. , 2021, , .   |     | 2         |
| 16 | Intelligent Computing in Medical Imaging. , 2021, , 592-608.   |     | 0         |
| 17 | Image Segmentation Based on Galactic Swarm Optimization. Lecture Notes in Networks and Systems, 2021, , 251-258.   | 0.5 | 3         |
| 18 | Edge Computing Based Conceptual Framework for Smart Health Care Applications Using Z-Wave and Homebased Wireless Sensor Network. , 2021, , 387-414.  |     | 3         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Soil moisture quantity prediction using optimized neural supported model for sustainable agricultural applications. Sustainable Computing: Informatics and Systems, 2020, 28, 100279.                                | 1.6 | 21        |
| 20 | Synthetic minority oversampling in addressing imbalanced sarcasm detection in social media. Multimedia Tools and Applications, 2020, 79, 35995-36031.  | 2.6 | 22        |
| 21 | Analysis of rheological properties of MWCNT/SiO <sub>2</sub> hydraulic oil nanolubricants using regression and artificial neural network. International Communications in Heat and Mass Transfer, 2020, 116, 104723. | 2.9 | 17        |
| 22 | Penalized Fuzzy C-Means Enabled Hybrid Region Growing in Segmenting Medical Images. Studies in Computational Intelligence, 2020, , 41-65.  | 0.7 | 20        |
| 23 | Data Security Techniques Based on DNA Encryption. Advances in Intelligent Systems and Computing, 2020, , 239-249.  | 0.5 | 18        |
| 24 | Biomedical Image Security Using Matrix Manipulation and DNA Encryption. Advances in Intelligent Systems and Computing, 2020, , 49-60.  | 0.5 | 14        |
| 25 | Normal Pressure Hydrocephalus Detection Using Active Contour Coupled Ensemble Based Classifier. Advances in Intelligent Systems and Computing, 2020, , 543-553.  | 0.5 | 1         |
| 26 | An Optimized Intelligent Dermatologic Disease Classification Framework Based on IoT. Advances in Intelligent Systems and Computing, 2020, , 131-151.   | 0.5 | 3         |
| 27 | A Dual Layer Image Encryption using Polymerase Chain Reaction Amplification and DNA Encryption. , 2019, , .  |     | 18        |
| 28 | Contrast Optimization using Elitist Metaheuristic Optimization and Gradient Approximation for Biomedical Image Enhancement. , 2019, , .  |     | 21        |
| 29 | A Study on the Applications of the Biomedical Image Encryption Methods for Secured Computer Aided Diagnostics. , 2019, , .   |     | 27        |
| 30 | Imbalanced Twitter Sentiment Analysis using Minority Oversampling. , 2019, , .   |     | 23        |
| 31 | Hepatocellular Carcinoma Survival Prediction Using Deep Neural Network. Advances in Intelligent Systems and Computing, 2019, , 349-358.  | 0.5 | 13        |
| 32 | Quantitative Rainfall Prediction: Deep Neural Network-Based Approach. Advances in Intelligent Systems and Computing, 2019, , 455-463.  | 0.5 | 2         |
| 33 | AFARTICA. Journal of Database Management, 2019, 30, 71-93.   | 1.0 | 4         |
| 34 | Prediction of Benzene Concentration of Air in Urban Area Using Deep Neural Network. Advances in Intelligent Systems and Computing, 2019, , 465-475.  | 0.5 | 1         |
| 35 | An Efficient Indoor Occupancy Detection System Using Artificial Neural Network. Advances in Intelligent Systems and Computing, 2019, , 317-329.  | 0.5 | 0         |
| 36 | Efficient Economic Profit Maximization: Genetic Algorithm Based Approach. Lecture Notes in Networks and Systems, 2018, , 307-318.  | 0.5 | 6         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Rainfall prediction using hybrid neural network approach. , 2018, , .  |     | 25        |
| 38 | Detection of Chronic Kidney Disease: A NN-GA-Based Approach. Advances in Intelligent Systems and Computing, 2018, , 109-115.   | 0.5 | 14        |
| 39 | Clinical application of modified bag-of-features coupled with hybrid neural-based classifier in dengue fever classification using gene expression data. Medical and Biological Engineering and Computing, 2018, 56, 709-720. | 1.6 | 33        |
| 40 | Improved Epilepsy Detection method by addressing Class Imbalance Problem. , 2018, , .  |     | 4         |
| 41 | Automated Breast Cancer Identification by analyzing Histology Slides using Metaheuristic Supported Supervised Classification coupled with Bag-of-Features. , 2018, , .   |     | 19        |
| 42 | Non-Dominated Sorting Genetic Algorithm-II-Induced Neural-Supported Prediction of Water Quality with Stability Analysis. Journal of Information and Knowledge Management, 2018, 17, 1850016.                                 | 0.8 | 6         |
| 43 | Electrical Energy Output Prediction Using Cuckoo Search Based Artificial Neural Network. Lecture Notes in Networks and Systems, 2018, , 277-285.   | 0.5 | 7         |
| 44 | HYBRID NEURAL NETWORK BASED RAINFALL PREDICTION SUPPORTED BY FLOWER POLLINATION ALGORITHM. Neural Network World, 2018, 28, 497-510.  | 0.5 | 9         |
| 45 | Intelligent Computing in Medical Imaging. Advances in Data Mining and Database Management Book Series, 2018, , 143-163.  | 0.4 | 41        |
| 46 | Hybrid Non-Dominated Sorting Genetic Algorithm. Advances in Data Mining and Database Management Book Series, 2018, , 264-286.  | 0.4 | 14        |
| 47 | Particle swarm optimization trained neural network for structural failure prediction of multistoried RC buildings. Neural Computing and Applications, 2017, 28, 2005-2016.   | 3.2 | 232       |
| 48 | HMSIW-Based Miniaturized Sensing Antennas for S- and C-Band Applications. , 2017, 1, 1-5.  |     | 18        |
| 49 | Dengue Fever Classification Using Gene Expression Data: A PSO Based Artificial Neural Network Approach. Advances in Intelligent Systems and Computing, 2017, , 331-341.  | 0.5 | 28        |
| 50 | Modified cuckoo search algorithm in microscopic image segmentation of hippocampus. Microscopy Research and Technique, 2017, 80, 1051-1072.   | 1.2 | 98        |
| 51 | Biomedical image enhancement based on modified Cuckoo Search and morphology. , 2017, , .   |     | 30        |
| 52 | Non-dominated sorting genetic algorithm "II supported neural network in classifying forest types. , 2017, , .  |     | 15        |
| 53 | Thermomechanical Characteristics of Low Carbon Magnesia-Based Monolithic Refractory Containing Nanostructured Surface-Modified Graphites in Matrix. Transactions of the Indian Ceramic Society, 2017, 76, 118-127.           | 0.4 | 3         |
| 54 | Hybrid modified Cuckoo Search-Neural Network in chronic kidney disease classification. , 2017, , .   |     | 29        |

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|----|---|-----|-----------|
| 55 | Detection of skin disease using metaheuristic supported artificial neural networks. , 2017, , .   |     | 37        |
| 56 | Cuckoo search coupled artificial neural network in detection of chronic kidney disease. , 2017, , .   |     | 29        |
| 57 | Image based skin disease detection using hybrid neural network coupled bag-of-features. , 2017, , .   |     | 34        |
| 58 | Bio-medical image enhancement using hybrid metaheuristic coupled soft computing tools. , 2017, , .  |     | 18        |
| 59 | Gradient approximation in retinal blood vessel segmentation. , 2017, , .  |     | 25        |
| 60 | Water quality prediction: Multi objective genetic algorithm coupled artificial neural network based approach. , 2017, , .   |     | 23        |
| 61 | Cellular image processing using morphological analysis. , 2017, , .   |     | 22        |
| 62 | An integrated method for automated biomedical image segmentation. , 2017, , .   |     | 18        |
| 63 | Optimal usage of pessimistic association rules in cost effective decision making. , 2017, , .   |     | 17        |
| 64 | Bag-of-features based classification of dermoscopic images. , 2017, , .   |     | 15        |
| 65 | Dermatological effect of UV rays owing to ozone layer depletion. , 2017, , .  |     | 19        |
| 66 | Application of cuckoo search in water quality prediction using artificial neural network. International Journal of Computational Intelligence Studies, 2017, 6, 229.                              | 0.3 | 32        |
| 67 | Indian Sign Language Recognition Using Optimized Neural Networks. Advances in Intelligent Systems and Computing, 2017, , 553-563.   | 0.5 | 64        |
| 68 | Analysis of Different Feature Description Algorithm in object Recognition. Advances in Multimedia and Interactive Technologies Book Series, 2017, , 66-99.  | 0.1 | 23        |
| 69 | Application of cuckoo search in water quality prediction using artificial neural network. International Journal of Computational Intelligence Studies, 2017, 6, 229.                              | 0.3 | 2         |
| 70 | Forest Type Classification: A Hybrid NN-GA Model Based Approach. Advances in Intelligent Systems and Computing, 2016, , 227-236.  | 0.5 | 39        |
| 71 | A Vulnerability Analysis Mechanism Utilizing Avalanche Attack Model for Dependency-Based Systems. , 2016, , 243-262.  |     | 12        |
| 72 | An Integrated Interactive Technique for Image Segmentation using Stack based Seeded Region Growing and Thresholding. International Journal of Electrical and Computer Engineering, 2016, 6, 2773. | 0.5 | 51        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Neural-based prediction of structural failure of multistoried RC buildings. Structural Engineering and Mechanics, 2016, 58, 459-473.       | 1.0 | 52        |
| 74 | A quality prediction method for weight lifting activity. , 2015, , .   |     | 23        |
| 75 | An Optimized Algorithm for Solving Combinatorial Problems using Reference Graph. IOSR Journal of Computer Engineering, 2014, 16, 01-07.    | 0.1 | 2         |
| 76 | A Comparative Study On The Performance CharacteristicsOf Sudoku Solving Algorithms. IOSR Journal of Computer Engineering, 2014, 16, 69-77. | 0.1 | 7         |