Siddhartha Bhattacharyya

List of Publications by Year
in descending order

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110	2,619	257450	214800
papers	citations	24 h-index	47 g-index

115	115	115	1952
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Data mining for credit card fraud: A comparative study. Decision Support Systems, 2011, 50, 602-613.	5.9	560
2	Sentiment Analysis of COVID-19 tweets by Deep Learning Classifiersâ€"A study to show how popularity is affecting accuracy in social media. Applied Soft Computing Journal, 2020, 97, 106754.	7.2	244
3	A group incremental feature selection for classification using rough set theory based genetic algorithm. Applied Soft Computing Journal, 2018, 65, 400-411.	7.2	118
4	Chaotic crow search algorithm for fractional optimization problems. Applied Soft Computing Journal, 2018, 71, 1161-1175.	7.2	99
5	A Survey of Sentiment Analysis from Social Media Data. IEEE Transactions on Computational Social Systems, 2020, 7, 450-464.	4.4	96
6	Genetic programming in classifying large-scale data: an ensemble method. Information Sciences, 2004, 163, 85-101.	6.9	68
7	A Brief Survey of Color Image Preprocessing and Segmentation Techniques. Journal of Pattern Recognition Research, 2011, 6, 120-129.	0.9	68
8	Inductive, Evolutionary, and Neural Computing Techniques for Discrimination: A Comparative Study. Decision Sciences, 1998, 29, 871-899.	4.5	66
9	Large-Scale Network Analysis for Online Social Brand Advertising. MIS Quarterly: Management Information Systems, 2016, 40, 849-868.	4.2	66
10	An improved Hybrid Quantum-Inspired Genetic Algorithm (HQIGA) for scheduling of real-time task in multiprocessor system. Applied Soft Computing Journal, 2017, 53, 296-307.	7.2	62
11	Multi-level thresholding using quantum inspired meta-heuristics. Knowledge-Based Systems, 2014, 67, 373-400.	7.1	58
12	Multilevel image segmentation with adaptive image context based thresholding. Applied Soft Computing Journal, 2011, 11, 946-962.	7.2	56
13	Border Collie Optimization. IEEE Access, 2020, 8, 109177-109197.	4.2	56
14	Quantum inspired genetic algorithm and particle swarm optimization using chaotic map model based interference for gray level image thresholding. Swarm and Evolutionary Computation, 2014, 15, 38-57.	8.1	55
15	New quantum inspired meta-heuristic techniques for multi-level colour image thresholding. Applied Soft Computing Journal, 2016, 46, 677-702.	7.2	53
16	Direct Marketing Performance Modeling Using Genetic Algorithms. INFORMS Journal on Computing, 1999, 11, 248-257.	1.7	47
17	Binary image denoising using a quantum multilayer self organizing neural network. Applied Soft Computing Journal, 2014, 24, 717-729.	7.2	42
18	Hybrid soft computing approaches to content based video retrieval: A brief review. Applied Soft Computing Journal, 2016, 46, 1008-1029.	7.2	41

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19	Efficient quantum inspired meta-heuristics for multi-level true colour image thresholding. Applied Soft Computing Journal, 2017, 56, 472-513.	7.2	40
20	Auto-Diagnosis of COVID-19 Using Lung CT Images With Semi-Supervised Shallow Learning Network. IEEE Access, 2021, 9, 28716-28728.	4.2	34
21	Binary object extraction using bi-directional self-organizing neural network (BDSONN) architecture with fuzzy context sensitive thresholding. Pattern Analysis and Applications, 2007, 10, 345-360.	4.6	30
22	Assembling translations from multi-engine machine translation outputs. Applied Soft Computing Journal, 2019, 78, 230-239.	7.2	30
23	High-speed target tracking by fuzzy hostility-induced segmentation of optical flow field. Applied Soft Computing Journal, 2009, 9, 126-134.	7.2	26
24	Automatic magnetic resonance image segmentation by fuzzy intercluster hostility index based genetic algorithm: An application. Applied Soft Computing Journal, 2016, 47, 669-683.	7.2	25
25	A Multi-Objective Quantum-Inspired Genetic Algorithm (Mo-QIGA) for Real-Time Tasks Scheduling in Multiprocessor Environment. Procedia Computer Science, 2018, 131, 591-599.	2.0	24
26	Novel quantum inspired approaches for automatic clustering of gray level images using Particle Swarm Optimization, Spider Monkey Optimization and Ageist Spider Monkey Optimization algorithms. Applied Soft Computing Journal, 2020, 88, 106040.	7.2	24
27	Color image segmentation using parallel OptiMUSIG activation function. Applied Soft Computing Journal, 2012, 12, 3228-3236.	7.2	23
28	A Quantum-Inspired Self-Supervised Network model for automatic segmentation of brain MR images. Applied Soft Computing Journal, 2020, 93, 106348.	7.2	22
29	An Efficient Quantum Inspired Genetic Algorithm with Chaotic Map Model Based Interference and Fuzzy Objective Function for Gray Level Image Thresholding. , 2011, , .		19
30	A quantum bi-directional self-organizing neural network (QBDSONN) architecture for binary object extraction from a noisy perspective. Applied Soft Computing Journal, 2016, 46, 731-752.	7.2	19
31	Efficient grey-level image segmentation using an optimised MUSIG (OptiMUSIG) activation function. International Journal of Parallel, Emergent and Distributed Systems, 2011, 26, 1-39.	1.0	18
32	Confidence in predictions from random tree ensembles. Knowledge and Information Systems, 2013, 35, 391-410.	3.2	18
33	A parallel bi-directional self-organizing neural network (PBDSONN) architecture for color image extraction and segmentation. Neurocomputing, 2012, 86, 1-23.	5.9	17
34	Qutrit-Inspired Fully Self-Supervised Shallow Quantum Learning Network for Brain Tumor Segmentation. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6331-6345.	11.3	17
35	Learning by Objectives for Adaptive Shop-Floor Scheduling. Decision Sciences, 1998, 29, 347-375.	4.5	16
36	Statistical-based system combination approach to gain advantages over different machine translation systems. Heliyon, 2019, 5, e02504.	3.2	16

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37	Quantum inspired meta-heuristic algorithms for multi-level thresholding for true colour images. , 2013, , .		13
38	Genetic learning through simulation: An investigation in shop floor scheduling. Annals of Operations Research, 1998, 78, 1-29.	4.1	12
39	Confidence in Predictions from Random Tree Ensembles. , 2011, , .		12
40	New Quantum Inspired Tabu Search for Multi-level Colour Image thresholding. , 2014, , .		11
41	Quantum Behaved Multi-objective PSO and ACO Optimization for Multi-level Thresholding. , 2014, , .		11
42	A vague set approach for identifying shot transition in videos using multiple feature amalgamation. Applied Soft Computing Journal, 2019, 75, 633-651.	7.2	11
43	Determination of optimal threshold of a gray-level image using a quantum inspired genetic algorithm with interference based on a random map model. , 2010, , .		10
44	Quantum Inspired Automatic Clustering for Multi-level Image Thresholding. , 2014, , .		10
45	Quantum fractional order Darwinian particle swarm optimization for hyperspectral multi-level image thresholding. Applied Soft Computing Journal, 2021, 113, 107976.	7.2	10
46	Towards redundancy reduction in storyboard representation for static video summarization. , 2014, , .		9
47	A quantum backpropagation multilayer perceptron (QBMLP) for predicting iron adsorption capacity of calcareous soil from aqueous solution. Applied Soft Computing Journal, 2015, 27, 299-312.	7.2	9
48	Hyperspectral multi-level image thresholding using qutrit genetic algorithm. Expert Systems With Applications, 2021, 181, 115107.	7.6	9
49	True color image segmentation by an optimized multilevel activation function. , 2010, , .		8
50	New quantum inspired meta-heuristic methods for multi-level thresholding. , 2013, , .		8
51	Quantum Spider Monkey Optimization (QSMO) Algorithm for Automatic Gray-Scale Image Clustering. , 2018, , .		8
52	Opti-QIBDS Net: A Quantum-Inspired Optimized Bi-Directional Self-supervised Neural Network Architecture for Automatic Brain MR Image Segmentation. , 2019, , .		8
53	Quantum-Inspired Automatic Clustering Technique Using Ant Colony Optimization Algorithm. Advances in Computer and Electrical Engineering Book Series, 2018, , 27-54.	0.3	8
54	An introduction to data mining in social networks. , 2022, , 1-25.		8

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55	Image Restoration Using a Multilayered Quantum Backpropagation Neural Network. , 2011, , .		7
56	Video Shot Segmentation Using Spatio-temporal Fuzzy Hostility Index and Automatic Threshold. , 2014, , .		7
57	A Quantum Bi-Directional Self-Organizing Neural Network (QBDSONN) for binary image denoising. , 2015, , .		7
58	COVID-19 Outbreak Prediction Using Quantum Neural Networks. Advances in Intelligent Systems and Computing, 2021, , 113-123.	0.6	7
59	Leveraging Cofollowership Patterns on Social Media to Identify Brand Alliance Opportunities. Journal of Marketing, 2022, 86, 17-36.	11.3	7
60	Design, development and validation of an agent-based model of electronic auctions. Information Technology and Management, 2006, 7, 191-212.	2.4	6
61	A Quantum Multilayer Self Organizing Neural Network for Object Extraction from a Noisy Background. , 2014, , .		6
62	Simulated Annealing Based Quantum Inspired Automatic Clustering Technique. Advances in Intelligent Systems and Computing, 2018, , 73-81.	0.6	6
63	A differential evolution algorithm based automatic determination of optimal number of clusters validated by fuzzy intercluster hostility index. , 2009, , .		5
64	Gray Scale Image Segmentation by NSGA-II Based OptiMUSIG Activation Function. , 2012, , .		5
65	Color Image Segmentation by NSGA-II Based ParaOptiMUSIG Activation Function. , 2013, , .		5
66	A quantum parallel bi-directional self-organizing neural network (QPBDSONN) architecture for extraction of pure color objects from noisy background. , 2016, , .		5
67	Color MRI Image Segmentation Using Quantum-Inspired Modified Genetic Algorithm-Based FCM. Advances in Intelligent Systems and Computing, 2019, , 151-164.	0.6	5
68	Quantum-Inspired Bat Optimization Algorithm for Automatic Clustering of Grayscale Images. Advances in Intelligent Systems and Computing, 2019, , 89-101.	0.6	5
69	Quantum inspired metaâ€heuristic approaches for automatic clustering of colour images. International Journal of Intelligent Systems, 2021, 36, 4852-4901.	5.7	5
70	A Three-Step Fuzzy-Based BERT Model for Sentiment Analysis. Studies in Computational Intelligence, 2022, , 41-52.	0.9	5
71	Multilevel Quantum Inspired Fractional Order Ant Colony Optimization for Automatic Clustering of Hyperspectral Images. , 2020, , .		4
72	Chaotic Map Model-Based Interference Employed in Quantum-Inspired Genetic Algorithm to Determine the Optimum Gray Level Image Thresholding. Advances in Computational Intelligence and Robotics Book Series, 2014, , 68-110.	0.4	4

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73	Quantum Behaved Swarm Intelligent Techniques for Image Analysis. Advances in Computational Intelligence and Robotics Book Series, 2015, , 1-39.	0.4	4
74	Optimum Gray Level Image Thresholding using a Quantum Inspired Genetic Algorithm. Advances in Computational Intelligence and Robotics Book Series, 2016, , 349-377.	0.4	4
75	Evolutionary computation for database marketing. Journal of Database Marketing and Customer Strategy Management, 2003, 10, 343-352.	0.6	3
76	OptiMUSIG: An Optimized Gray Level Image Segmentor. , 2008, , .		3
77	A Quantum Parallel Self Organizing Neural Network (QPSONN) for Pure Color Object Extraction from a Noisy Background. , 2015, , .		3
78	Enhancement of perceptual quality in static video summarization using minimal spanning tree approach. , 2015, , .		3
79	A Novel Quantum Inspired Sperm Whale Meta-heuristic for Image Thresholding. , 2019, , .		3
80	Multilevel Image Segmentation Using OptiMUSIG Activation Function with Fixed and Variable Thresholding: A Comparative Study. Advances in Intelligent and Soft Computing, 2009, , 53-62.	0.2	3
81	Quantum Inspired Non-dominated Sorting Based Multi-objective GA for Multi-level Image Thresholding. Series in Machine Perception and Artificial Intelligence, 2018, , 141-170.	0.1	3
82	Photonic implementation of Hopfield neural network for associative pattern recognition. , 2001, , .		2
83	A quantum inspired time efficient OptiMUSIG activation function for multilevel image segmentation. , 2013, , .		2
84	Color Magnetic Resonance Brain Image Segmentation by ParaOptiMUSIG Activation Function: An Application. Studies in Computational Intelligence, 2016, , 185-214.	0.9	2
85	TSLA: Turing based service level agreement assessment model over diverse cloud deployments. , 2017, , .		2
86	Detection of Gradual Transition in Videos. Advances in Multimedia and Interactive Technologies Book Series, 2017, , 282-318.	0.2	2
87	Multilevel Image Segmentation by a Multiobjective Genetic Algorithm Based OptiMUSIG Activation Function. , 2013, , 122-162.		2
88	Efficient Color Image Segmentation by a Parallel Optimized (ParaOptiMUSIG) Activation Function. Advances in Computational Intelligence and Robotics Book Series, 2014, , 19-50.	0.4	2
89	Optimized activation for quantum-inspired self-supervised neural network based fully automated brain lesion segmentation. Applied Intelligence, 2022, 52, 15643-15672.	5.3	2
90	Fuzzy Context Sensitive Thresholding Guided Bidirectional Self Organizing Neural Network (BDSONN): A Gray Scale Object Extractor. , 2006, , .		1

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91	A three-dimensional self-organizing neural network architecture for three-dimensional object extraction from a noisy perspective. , 2009, , .		1
92	Pure color object extraction from a noisy state using quantum version parallel self organizing neural network. International Journal of Computers and Applications, 2016, 38, 164-186.	1.3	1
93	PSO and DE based novel quantum inspired automatic clustering techniques. , 2017, , .		1
94	True Color Image Segmentation Using Quantum-Induced Modified-Genetic-Algorithm-Based FCM Algorithm. Advances in Computer and Electrical Engineering Book Series, 2018, , 55-94.	0.3	1
95	Quantum Inspired Swarm Optimization for Multi-Level Image Segmentation Using BDSONN Architecture. Advances in Computational Intelligence and Robotics Book Series, 2015, , 286-326.	0.4	1
96	Multilevel and Color Image Segmentation by NSGA II Based OptiMUSIG Activation Function. Advances in Computational Intelligence and Robotics Book Series, 2016, , 321-348.	0.4	1
97	QIBDS Net: A Quantum-Inspired Bi-Directional Self-supervised Neural Network Architecture for Automatic Brain MR Image Segmentation. Lecture Notes in Computer Science, 2019, , 87-95.	1.3	1
98	Quantum Behaved Swarm Intelligent Techniques for Image Analysis. , 0, , 893-931.		1
99	How Network Structure Affects Social Creativity. , 2011, , .		0
100	Introduction to Hybrid Metaheuristics. Series in Machine Perception and Artificial Intelligence, 2018, , 1-38.	0.1	0
101	Reinforcement Learning inspired Deep Learned Compositional Model for Decision Making in Tracking. , 2018, , .		0
102	Species Inspired PSO based Pyramid Match Kernel Model (PMK) for Moving Object Motion Tracking. , 2018, , .		0
103	Chicago Crime Data Analysis Using PIG in Hadoop. , 2018, , .		0
104	A Novel Qutrit Based Quantum Ant Colony Optimization for Multi-level Thresholding. , 2019, , .		0
105	Grayscale Image Segmentation With Quantum-Inspired Multilayer Self-Organizing Neural Network Architecture Endorsed by Context Sensitive Thresholding. , 2021, , 197-227.		0
106	True Color Image Segmentation Using Quantum-Induced Modified-Genetic-Algorithm-Based FCM Algorithm. , 2021, , 164-196.		0
107	Predictive Modeling on Multiple Marketing Objectives Using Evolutionary Computation. Studies in Fuzziness and Soft Computing, 2010, , 155-179.	0.8	0
108	Content Coverage and Redundancy Removal in Video Summarization. Advances in Multimedia and Interactive Technologies Book Series, 2017, , 352-374.	0.2	0

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109	True Color Image Segmentation by MUSIG Activation Function Using Self-Supervised QMLSONN Architecture With Context-Sensitive Thresholding. Advances in Computer and Electrical Engineering Book Series, 2018, , 213-261.	0.3	0
110	Grayscale Image Segmentation With Quantum-Inspired Multilayer Self-Organizing Neural Network Architecture Endorsed by Context Sensitive Thresholding. Advances in Computer and Electrical Engineering Book Series, 2018, , 141-177.	0.3	0