Paramartha Dutta

List of Publications by Year
in descending order

148 papers	1,850 citations

430442

18 h-index	

360668

	35 g-index

169 all docs	169 docs citations	169 times ranked	1103 citing authors

#	Article	IF	Citations
1	Comprehensive design and analysis of Gray code counters using 2-dimensional 2-dot 1-electron QCA. Microsystem Technologies, 2022, 28, 447-465.	1.2	2
2	Influence of structure of 2 dimensional 2 dot 1 electron QCA cells in design of a pipelined subtractor. Microsystem Technologies, 2022, 28, 467-475.	1.2	4
3	Steganography in Color Animated Image Sequence for Secret Data Sharing Using Secure Hash Algorithm. Wireless Personal Communications, 2022, 122, 1891-1920.	1.8	3
4	Automatic Facial Expression Recognitionâ€"A Circumcenterâ€"Incenterâ€"Centroid (CIC) Trio Feature-Induced Approach. SN Computer Science, 2022, 3, .	2.3	0
5	Mining challenges in large-scale IoT data framework â€" a machine learning perspective. , 2022, , 239-259.		2
6	Facial expression recognition using distance and shape signature features. Pattern Recognition Letters, 2021, 145, 254-261.	2.6	36
7	Fuzzy triangulation signature for detection of change in human emotion from face video image sequence. Multimedia Tools and Applications, 2021, 80, 31993-32022.	2.6	5
8	Recognition of Change in Facial Expressions From Video Sequence Using Incenter-Circumcenter Pair Gradient Signature. Advances in Intelligent Systems and Computing, 2021, , 771-779.	0.5	0
9	HFAIR: Hello Devoid Optimized Version of FAIR Protocol for Mobile Ad hoc Networks. Advances in Intelligent Systems and Computing, 2021, , 45-54.	0.5	0
10	An Ultra Low Power Molecular Quantum Dot Cellular Automata Based X-ray (QX-ray) Generating System Using Renewable Energy Source. , 2020, , 810-820.		1
11	An efficient load balanced stable multi-path routing for mobile ad-hoc network. Microsystem Technologies, 2020, , 1.	1.2	3
12	A bi-phased multi-objective genetic algorithm based classifier. Expert Systems With Applications, 2020, 146, 113163.	4.4	14
13	Human Emotion Classification: An Expression Specific Geometric Approach. , 2020, , .		0
14	Recognition of Changes in Human Emotion from Face Image Sequence using Triangulation Induced Barycentre-Orthocentre Paired Distance Signature. , 2020, , .		0
15	Evolution of Image Segmentation using Deep Convolutional Neural Network: A Survey. Knowledge-Based Systems, 2020, 201-202, 106062.	4.0	140
16	Human Emotion Recognition from Face Images. Cognitive Intelligence and Robotics, 2020, , .	0.6	6
17	Special issue on software solutions for contemporary applications. Innovations in Systems and Software Engineering, 2020, 16, 1-1.	1.6	2
18	Automatic Facial Expression Recognition Using Histogram Oriented Gradients (HoG) of Shape Information Matrix. Advances in Intelligent Systems and Computing, 2020, , 343-351.	0.5	3

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19	NC2H: Cooperation Among Nodes through Cluster Head in Ad Hoc Network. Lecture Notes in Electrical Engineering, 2020, , 139-147.	0.3	1
20	Recognizing Human Emotions from Facial Images by Landmark Triangulation: A Combined Circumcenter-Incenter-Centroid Trio Feature-Based Method. Studies in Computational Intelligence, 2020, , 147-164.	0.7	3
21	Human Emotion Recognition Using Combination of Shape-Texture Signature Feature. Cognitive Intelligence and Robotics, 2020, , 177-234.	0.6	0
22	Distance-Shape Signature Duo forÂDetermination of Human Emotion. Cognitive Intelligence and Robotics, 2020, , 93-123.	0.6	0
23	Human Emotion Recognition from Distance-Shape-Texture Signature Trio. Cognitive Intelligence and Robotics, 2020, , 235-261.	0.6	0
24	Distance-Texture Signature Duo forÂDetermination of Human Emotion. Cognitive Intelligence and Robotics, 2020, , 125-176.	0.6	0
25	Shape Signature for Recognizing Human Emotions. Cognitive Intelligence and Robotics, 2020, , 47-73.	0.6	0
26	Stable Neighbor-Node Prediction with Multivariate Analysis in Mobile Ad Hoc Network Using RNN Model. Studies in Computational Intelligence, 2020, , 165-179.	0.7	0
27	Movement guided management of topology (MGMT) with balanced load in mobile ad hoc networks. International Journal of Information Technology (Singapore), 2019, 11, 149-158.	1.8	3
28	A Multipath Load Balancing Routing Protocol in Mobile Ad Hoc Network Using Recurrent Neural Network. Communications in Computer and Information Science, 2019, , 458-464.	0.4	4
29	Load Balancing Strategy in Cloud Computing Using Simulated Annealing. Communications in Computer and Information Science, 2019, , 67-81.	0.4	3
30	Energy Efficient Designing Approach of Flip-Flops Using 2-Dot 1-Electron QCA. Communications in Computer and Information Science, 2019, , 477-490.	0.4	2
31	Facial expression recognition using distance and texture signature relevant features. Applied Soft Computing Journal, 2019, 77, 88-105.	4.1	43
32	Automatic clustering by multi-objective genetic algorithm with numeric and categorical features. Expert Systems With Applications, 2019, 137, 357-379.	4.4	36
33	Influence of shape and texture features on facial expression recognition. IET Image Processing, 2019, 13, 1349-1363.	1.4	19
34	EF-Index: Determining number of clusters (K) to estimate number of segments (S) in an image. Image and Vision Computing, 2019, 88, 29-40.	2.7	2
35	Energy and Velocity Based Tree Multicast Routing in Mobile Ad-Hoc Networks. Wireless Personal Communications, 2019, 107, 2191-2209.	1.8	8
36	A QCA design and energy analysis of binary semaphore with a comprehensive case study. Innovations in Systems and Software Engineering, 2019, 15, 343-354.	1.6	1

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37	Study on Temperature Stability and Fault Tolerance of Adder in Quantum-dot Cellular Automata. , 2019, , .		6
38	Enhancement of robustness of face recognition system through reduced gaussianity in Log-ICA. Expert Systems With Applications, 2019, 116, 96-107.	4.4	19
39	Biogeographic-Based Temporal Prediction of Link Stability in Mobile Ad Hoc Networks. Wireless Personal Communications, 2019, 104, 217-233.	1.8	8
40	Design of an arithmetic circuit using non-reversible adders in 2 dot 1 electron QCA. Microsystem Technologies, 2019, 25, 1719-1729.	1.2	3
41	Comprehensive study on the performance comparison of logically reversible and irreversible parity generator and checker designs using two-dimensional two-dot one-electron QCA. Microsystem Technologies, 2019, 25, 1659-1667.	1.2	4
42	Facial Expression Recognition Using Distance Signature Feature. Advances in Intelligent Systems and Computing, 2018, , 155-163.	0.5	6
43	Fuzzy-controlled energy-efficient single hop clustering scheme with (FESC) in ad hoc networks. International Journal of Information Technology (Singapore), 2018, 10, 313-327.	1.8	7
44	Realization of Basic Gates Using Universal Gates Using Quantum-Dot Cellular Automata. Lecture Notes in Networks and Systems, 2018, , 541-549.	0.5	9
45	EMR-PL: Energy-efficient multipath routing based on link life prediction in ad hoc networks. Journal of Information and Optimization Sciences, 2018, 39, 285-301.	0.2	1
46	Advancements in Image Classification using Convolutional Neural Network. , 2018, , .		163
47	Steganography in Grey Scale Animated GIF using Hash based Pixel Value Differencing. , 2018, , .		3
48	A Design and Application Case Study of Binary Semaphore Using 2 Dimensional 2 Dot 1 Electron Quantum Dot Cellular Automata. Communications in Computer and Information Science, 2018, , 428-448.	0.4	0
49	A Theoretical Framework of Lifetime Prediction of Wireless Sensor Networks. Communications in Computer and Information Science, 2018, , 50-57.	0.4	0
50	Design of a BCD Adder Using 2-Dimensional Two-Dot One-Electron Quantum-Dot Cellular Automata. Advances in Intelligent Systems and Computing, 2017, , 345-354.	0.5	1
51	Identifying hazardousness of sewerÂpipeline gas mixture using classification methods: a comparative study. Neural Computing and Applications, 2017, 28, 1343-1354.	3.2	5
52	Facial expression recognition using shape signature feature. , 2017, , .		8
53	Texture signature based facial expression recognition using NARX. , 2017, , .		5
54	FSNRP: Fuzzy-controlled priority scheduling of non-real time data packets in mobile ad-hoc networks. , 2017, , .		0

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55	Implementation of Basic and Universal Gates In a single Circuit Based On Quantum-dot Cellular Automata Using Multi-Layer Crossbar Wire. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012172.	0.3	2
56	Design of Two-Bit Gray Code Counter Using Two-Dimensional Two-Dot One-Electron QCA. Communications in Computer and Information Science, 2017, , 75-84.	0.4	2
57	Cluster Based Medical Image Registration Using Optimized Neural Network. , 2017, , 1437-1467.		0
58	A Study on Structural Benefits of Square Cells over Rectangular Cells in Case of 2Dot 1Electron QCA Cells. Communications in Computer and Information Science, 2017, , 85-96.	0.4	0
59	Design and analysis of an energy efficient and compact two-dimensional two-dot one-electron quantum-dot cellular automata-based ripple carry adder. International Journal of Convergence Computing, 2016, 2, 161.	0.2	0
60	Image Segmentation: A Review. Computational Intelligence Methods and Applications, 2016, , 29-40.	0.2	14
61	A Novel Design to Obtain Fault Tolerant Majority Gate for Five Input Majority Gate by Quantum Cellular Automata. , 2016, , .		3
62	A study on 2 dimensional 2 Dot 1 Electron quantum dot cellular automata based reversible 2:1 MUX design: an energy analytical approach. International Journal of Computers and Applications, 2016, 38, 82-95.	0.8	3
63	Understating continuous ant colony optimization for neural network training: A case study on intelligent sensing of manhole gas components. International Journal of Hybrid Intelligent Systems, 2016, 12, 185-202.	0.9	4
64	A multi-agent concurrent neurosimulated annealing algorithm: A case study on intelligent sensing of manhole gases. International Journal of Hybrid Intelligent Systems, 2016, 12, 203-217.	0.9	1
65	Automatic magnetic resonance image segmentation by fuzzy intercluster hostility index based genetic algorithm: An application. Applied Soft Computing Journal, 2016, 47, 669-683.	4.1	25
66	2-Dimensional 2-Dot 1-Electron Quantum Cellular Automata-Based Dynamic Memory Design. Advances in Intelligent Systems and Computing, 2016, , 357-365.	0.5	4
67	Immune-Based Feature Selection in Rigid Medical Image Registration Using Supervised Neural Network. Studies in Computational Intelligence, 2016, , 429-456.	0.7	1
68	Unsupervised Genetic Algorithm Based Automatic Image Segmentation and Data Clustering Technique Validated by Fuzzy Intercluster Hostility Index. Computational Intelligence Methods and Applications, 2016, , 193-217.	0.2	0
69	Self-supervised Colour Image Segmentation Using Multiobjective Based Parallel Optimized MUSIG (ParaOptiMUSIG) Activation Function. Computational Intelligence Methods and Applications, 2016, , 153-192.	0.2	0
70	Self-supervised Colour Image Segmentation Using Parallel OptiMUSIG (ParaOptiMUSIG) Activation Function. Computational Intelligence Methods and Applications, 2016, , 89-123.	0.2	0
71	Self-supervised Grey Level Image Segmentation Using Multi-Objective-Based Optimised MUSIG (OptiMUSIG) Activation Function. Computational Intelligence Methods and Applications, 2016, , 125-152.	0.2	0
72	Design and analysis of an energy efficient and compact two-dimensional two-dot one-electron quantum-dot cellular automata-based ripple carry adder. International Journal of Convergence Computing, 2016, 2, 161.	0.2	0

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73	A 2D 2 Dot 1 electron Quantum Dot Cellular Automata based logically reversible 2:1 multiplexer. , 2015, , .		3
74	Design of a Binary to BCD Converter Using 2-Dimensional 2-Dot 1-Electron Quantum Dot Cellular Automata. Procedia Computer Science, 2015, 70, 153-159.	1.2	3
75	Design and analysis of two Dot one Electron QCA Ex-OR gate in logically reversible gate design. , 2015, , .		5
76	Design of a 2-dot 1-electron QCA full adder using logically reversible half adders. , 2015, , .		1
77	Path length prediction in MANET under AODV routing: Comparative analysis of ARIMA and MLP model. Egyptian Informatics Journal, 2015, 16, 103-111.	4.4	10
78	A study on energy optimized 4 dot 2 electron two dimensional quantum dot cellular automata logical reversible flip-flops. Microelectronics Journal, 2015, 46, 519-530.	1.1	44
79	Big data parallelism: Challenges in different computational paradigms. , 2015, , .		3
80	Genetic algorithm and gravitational emulation based hybrid load balancing strategy in cloud computing. , 2015, , .		51
81	A novel parallel memory design using 2 Dot 1 electron QCA. , 2015, , .		8
82	A 2 Dot 1 Electron Quantum Cellular Automata Based Parallel Memory. Advances in Intelligent Systems and Computing, 2015, , 627-636.	0.5	20
83	An Ant Colony Based Load Balancing Strategy in Cloud Computing. Smart Innovation, Systems and Technologies, 2014, , 403-413.	0.5	33
84	A Framework of Secured and Bio-Inspired Image Steganography Using Chaotic Encryption with Genetic Algorithm Optimization (CEGAO). Advances in Intelligent Systems and Computing, 2014, , 271-280.	0.5	4
85	Experience Based Energy Efficient Reactive Routing Protocol (EXERP) for Mobile Ad-Hoc Networks. Arabian Journal for Science and Engineering, 2014, 39, 891-901.	1.1	4
86	Weighted delay prediction in mobile ad hoc network using fuzzy time series. Egyptian Informatics Journal, 2014, 15, 105-114.	4.4	11
87	New Architecture for Flip Flops Using Quantum-Dot Cellular Automata. Advances in Intelligent Systems and Computing, 2014, , 707-714.	0.5	20
88	Statistical Regression based Rotation Estimation Technique of Color Image. International Journal of Computer Applications, 2014, 102, 1-4.	0.2	3
89	A Novel Secure Image Steganography Method Based on Chaos Theory in Spatial Domain. International Journal of Security Privacy and Trust Management, 2014, 3, 11-22.	0.4	34
90	Conjugate Gradient Trained Neural Network for Intelligent Sensing of Manhole Gases to Avoid Human Fatality. Advances in Information Security, Privacy, and Ethics Book Series, 2014, , 257-280.	0.4	0

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91	Simultaneous continuous feature selection and K clustering by Multi Objective Genetic Algorithm. , 2013, , .		8
92	The Path Length Prediction of MANET Using Moving Average Model. Procedia Technology, 2013, 10, 882-889.	1.1	6
93	A Genetic Algorithm (GA) based Load Balancing Strategy for Cloud Computing. Procedia Technology, 2013, 10, 340-347.	1.1	253
94	Fuzzy-controlled cache management (FCM) in Experience-based Energy-efficient Routing Protocol in ad hoc networks. , 2013, , .		0
95	Optimized Video Steganography Using Genetic Algorithm (GA). Procedia Technology, 2013, 10, 131-137.	1.1	45
96	Categorical Feature Reduction Using Multi Objective Genetic Algorithm in Cluster Analysis. Lecture Notes in Computer Science, 2013, , 164-189.	1.0	2
97	Simultaneous feature selection and clustering with mixed features by multi objective genetic algorithm. International Journal of Hybrid Intelligent Systems, 2013, 11, 41-54.	0.9	24
98	Study of Various Conjugate Gradient Based ANN Training Methods for Designing Intelligent Manhole Gas Detection System. , 2013, , .		4
99	Feature weighted clustering of mixed data sets by hybrid evolutionary algorithm. , 2013, , .		0
100	Performance Comparison of Different Intelligent Techniques Applied on Detecting Proportion of Different Component in Manhole Gas Mixture. , 2013, , 758-785.		2
101	Gray Image Extraction Using Fuzzy Logic. , 2012, , .		5
102	Sensor array for manhole gas analysis. , 2012, , .		7
103	Portable sensor array system for intelligent recognizer of manhole gas. , 2012, , .		3
104	Fuzzy-controlled Power-aware Multicast Routing (FPMR) for Mobile Ad Hoc Networks. Procedia Technology, 2012, 4, 38-49.	1.1	6
105	Delay Prediction in Mobile Ad Hoc Network using Artificial Neural Network. Procedia Technology, 2012, 4, 201-206.	1.1	16
106	The Effect of Speed Variation on Different Traffic Patterns in Mobile Ad Hoc Network. Procedia Technology, 2012, 4, 743-748.	1.1	10
107	Load Balancing in Cloud Computing using Stochastic Hill Climbing-A Soft Computing Approach. Procedia Technology, 2012, 4, 783-789.	1.1	141
108	Linear regression based statistical approach for detecting proportion of component gases in manhole gas mixture. , 2012, , .		10

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109	A Novel Neuro Simulated Annealing Algorithm for Detecting Proportion of Component Gases in Manhole Gas Mixture. , 2012, , .		7
110	Efficient Fuzzy Rule Base Design Using Image Features for Image Extraction and Segmentation. , 2012, , .		3
111	Clustering by multi objective genetic algorithm. , 2012, , .		12
112	Clustering data set with categorical feature using multi objective genetic algorithm. , 2012, , .		10
113	Simultaneous feature selection and clustering for categorical features using multi objective genetic algorithm. , 2012, , .		7
114	Data clustering with mixed features by multi objective genetic algorithm. , 2012, , .		7
115	Performance analysis of neuro swarm optimization algorithm applied on detecting proportion of components in manhole gas mixture. Artificial Intelligence Research, 2012, 1, 31.	0.3	5
116	A parallel bi-directional self-organizing neural network (PBDSONN) architecture for color image extraction and segmentation. Neurocomputing, 2012, 86, 1-23.	3.5	17
117	The Temporal Effect of Mobility on Path Length in MANET. International Journal of Wireless Information Networks, 2012, 19, 38-48.	1.8	9
118	Quantum Cellular Automata Based Novel Unit Reversible Multiplexer. Advanced Science Letters, 2012, 16, 163-168.	0.2	18
119	Quantum Cellular Automata based Novel Unit 2:1 Multiplexer. International Journal of Computer Applications, 2012, 43, 22-25.	0.2	15
120	Evolutionary Computing. Advances in Civil and Industrial Engineering Book Series, 2012, , 271-295.	0.2	0
121	Temporal characteristics of clustering in mobile ad hoc network. , 2012, , .		0
122	A Three Dimensional Bi-directional Self-Organizing Neural Network (3-DBDSONN) Architecture for Three Dimensional Object Extraction from a Noisy Perspective. , 2011, , .		1
123	A study on the effect of traffic patterns on Routing protocols in Ad-hoc network following RPGM Mobility model. , 2011, , .		8
124	Multilevel image segmentation with adaptive image context based thresholding. Applied Soft Computing Journal, 2011, 11, 946-962.	4.1	56
125	A real coded MOGA for mining classification rules with missing attribute values. , 2011, , .		1
126	Efficient grey-level image segmentation using an optimised MUSIG (OptiMUSIG) activation function. International Journal of Parallel, Emergent and Distributed Systems, 2011, 26, 1-39.	0.7	18

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127	A Study on the Effect of Traffic Patterns in Mobile Ad Hoc Network. Communications in Computer and Information Science, 2011, , 83-90.	0.4	3
128	Fuzzy-Controlled Energy-Efficient Weight-Based Two Hop Clustering for Multicast Communication in Mobile Ad Hoc Networks. Lecture Notes in Computer Science, 2011, , 520-529.	1.0	1
129	Temporal Modeling of Link Characteristic in Mobile Ad hoc Network. Journal of Computing and Information Technology, 2011, 19, .	0.2	9
130	Designing and Implementation of Quantum Cellular Automata 2:1 Multiplexer Circuit. International Journal of Computer Applications, 2011, 25, 21-24.	0.2	40
131	Link Stability and Node Energy Conscious Local Route-Repair Scheme for Mobile Ad Hoc Networks. American Journal of Applied Sciences, 2010, 7, 1139-1147.	0.1	5
132	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
133	Temporal Modeling of Node Mobility in Mobile Ad hoc Network. Journal of Computing and Information Technology, 2010, 18, 19.	0.2	16
134	Fuzzy-Controlled Source-Initiated Multicasting (FSIM) in Ad Hoc Networks. Lecture Notes in Computer Science, 2010, , 55-71.	1.0	0
135	Temporal behavior analysis of mobile ad hoc network with different mobility patterns. , 2009, , .		8
136	High-speed target tracking by fuzzy hostility-induced segmentation of optical flow field. Applied Soft Computing Journal, 2009, 9, 126-134.	4.1	26
137	A differential evolution algorithm based automatic determination of optimal number of clusters validated by fuzzy intercluster hostility index. , 2009, , .		5
138	A three-dimensional self-organizing neural network architecture for three-dimensional object extraction from a noisy perspective. , 2009, , .		1
139	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
140	OptiMUSIG: An Optimized Gray Level Image Segmentor. , 2008, , .		3
141	Enhancing Efficiency towards Handling Mobility Uncertainty in Mobile Ad-Hoc Network (MANET). , 2008, , .		2
142	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.	3.1	30
143	Fuzzy Context Sensitive Thresholding Guided Bidirectional Self Organizing Neural Network (BDSONN): A Gray Scale Object Extractor. , 2006, , .		1
144	Performance evaluation of evolutionary class of algorithms—An application to 0–1 knapsack problem. Mathematical and Computer Modelling, 1998, 27, 57-72.	2.0	0

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145	Performance comparison of two evolutionary schemes. , 1996, , .		2
146	XMUBET with CONSENT: Pixel Hostility Induced Multiscale Object Extractor. , 0, , .		0
147	XMUSIG with CONSENT: Pixel hostility induced multiscale object extractor. , 0, , .		0
148	Landmark triangulation-induced Altitude Signature for change detection of human emotion from face image sequence. Innovations in Systems and Software Engineering, 0, , 1.	1.6	0