

Anirban Mukhopadhyay

List of Publications by Year in descending order

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Version: 2024-02-01

153
papers

3,391
citations

172457

29
h-index

168389

53
g-index

165
all docs

165
docs citations

165
times ranked

2508
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning-driven automatic storage space recommendation for object-based cloud storage system. <i>Complex & Intelligent Systems</i> , 2022, 8, 489-505.	6.5	2
2	Solving Hierarchical Hub Facility Location Problem Using Refined Genetic Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2022, , 493-506.	0.6	0
3	Machine Learning Approaches for Discriminating Bacterial and Viral Targeted Human Proteins. <i>Processes</i> , 2022, 10, 291.	2.8	0
4	ChikvInt: a Chikungunya virusâ€“host proteinâ€“protein interaction database. <i>Letters in Applied Microbiology</i> , 2022, 74, 992-1000.	2.2	2
5	A network biology approach to identify crucial host targets for COVID-19. <i>Methods</i> , 2022, 203, 108-115.	3.8	6
6	Solving a new variant of the capacitated maximal covering location problem with fuzzy coverage area using metaheuristic approaches. <i>Computers and Industrial Engineering</i> , 2022, 170, 108315.	6.3	9
7	A game theory-based approach to fuzzy clustering for pixel classification in remote sensing imagery. <i>Soft Computing</i> , 2021, 25, 5121-5129.	3.6	5
8	A systems biology approach for identifying key genes and pathways of gastric cancer using microarray data. <i>Gene Reports</i> , 2021, 22, 101011.	0.8	1
9	Discovering key transcriptomic regulators in pancreatic ductal adenocarcinoma using Dirichlet process Gaussian mixture model. <i>Scientific Reports</i> , 2021, 11, 7853.	3.3	11
10	Identification of Critical Host Targets for HCV Infection: A Systems Biology Approach. , 2021, 6, 755-763.		1
11	Identification of key immune regulatory genes in HIV-1 progression. <i>Gene</i> , 2021, 792, 145735.	2.2	5
12	Fuzzy association analysis for identifying climatic and socio-demographic factors impacting the spread of COVID-19. <i>Methods</i> , 2021, , .	3.8	1
13	Enrichment of laccase production by <i>Phoma herbarum</i> isolate KU4 under solidâ€“state fermentation by optimizing RSM coefficients using genetic algorithm. <i>Letters in Applied Microbiology</i> , 2021, 73, 515-528.	2.2	7
14	A multi-objective formulation of maximal covering location problem with customersâ€™ preferences: Exploring Pareto optimality-based solutions. <i>Expert Systems With Applications</i> , 2021, 186, 115830.	7.6	5
15	Pan-cancer classification by regularized multi-task learning. <i>Scientific Reports</i> , 2021, 11, 24252.	3.3	7
16	Solving Multi-Objective Hierarchical Hub Facility Location Problem Using GA-Based Approaches. , 2021, , .		1
17	A Review of Judgment Analysis Algorithms for Crowdsourced Opinions. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020, 32, 1234-1248.	5.7	8
18	A Graph-Based Approach for Finding the Dengue Infection Pathways in Humans Using Proteinâ€“Protein Interactions. <i>Journal of Computational Biology</i> , 2020, 27, 755-768.	1.6	6

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19	Machine learning techniques for sequence-based prediction of viral–host interactions between SARS-CoV-2 and human proteins. Biomedical Journal, 2020, 43, 438-450.	3.1	73
20	A Comparative Analysis of Different Regression Models on Predicting the Spread of Covid-19 in India. , 2020, , .		2
21	System biology approach to identify critical host genes for dengue infection. , 2020, , .		0
22	Identifying cancer-associated modules from microRNA co-expression networks: a multiobjective evolutionary approach. Soft Computing, 2020, 24, 17365-17376.	3.6	2
23	Detecting Overlapping Gene Communities during Stomach Adenocarcinoma: A Discrete NMF-based Integrative Approach. , 2020, , .		3
24	Handwritten Indic Script Recognition Based on the Dempster–Shafer Theory of Evidence. Journal of Intelligent Systems, 2019, 29, 264-282.	1.6	5
25	Solving tool indexing problem using harmony search algorithm with harmony refinement. Soft Computing, 2019, 23, 7407-7423.	3.6	18
26	Different Schemes for Improving Fuzzy Clustering Through Supervised Learning. Communications in Computer and Information Science, 2019, , 155-164.	0.5	1
27	Biclustering-based association rule mining approach for predicting cancer-associated protein interactions. IET Systems Biology, 2019, 13, 234-242.	1.5	7
28	Multi-objective uncapacitated facility location problem with customers’ preferences: Pareto-based and weighted sum GA-based approaches. Soft Computing, 2019, 23, 12347-12362.	3.6	14
29	Solving Uncapacitated Facility Location Problem Using Heuristic Algorithms. International Journal of Natural Computing Research, 2019, 8, 18-50.	0.5	3
30	Identification of Hub Genes and Key Modules in Stomach Adenocarcinoma Using nsNMF-Based Data Integration Technique. , 2019, , .		6
31	A Classification-based Approach to Prediction of Dengue Virus and Human Protein-Protein Interactions using Amino Acid Composition and Conjoint Triad Features. , 2019, , .		8
32	Identification of infectious disease-associated host genes using machine learning techniques. BMC Bioinformatics, 2019, 20, 736.	2.6	26
33	A Weighted Rank aggregation approach towards crowd opinion analysis. Knowledge-Based Systems, 2018, 149, 47-60.	7.1	12
34	Solving Uncapacitated Facility Location Problem Using Monkey Algorithm. Advances in Intelligent Systems and Computing, 2018, , 71-78.	0.6	11
35	A Genetic Algorithm-Based Clustering Approach for Selecting Non-redundant MicroRNA Markers from Microarray Expression Data. Springer Proceedings in Mathematics and Statistics, 2018, , 157-169.	0.2	1
36	Deterministic and Randomized Heuristic Algorithms for Uncapacitated Facility Location Problem. Advances in Intelligent Systems and Computing, 2018, , 205-216.	0.6	10

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37	A review of computational approaches for analysis of hepatitis C virus-mediated liver diseases. Briefings in Functional Genomics, 2018, 17, 428-440.	2.7	3
38	Solving maximal covering location problem using genetic algorithm with local refinement. Soft Computing, 2018, 22, 3891-3906.	3.6	33
39	Multi-objective Clustering Ensemble for Varying Number of Clusters. , 2018, , .		3
40	Exploration and Exploitation Without Mutation: Solving the Jump Function in $\Theta(n)$ Time. Lecture Notes in Computer Science, 2018, , 55-66.	1.3	19
41	Incorporating Gene Ontology Information in Gene Expression Data Clustering Using Multiobjective Evolutionary Optimization: Application in Yeast Cell Cycle Data. , 2018, , 55-78.		1
42	Multiobjective PSO-based rank aggregation: Application in gene ranking from microarray data. Information Sciences, 2017, 385-386, 55-75.	6.9	13
43	Dependent judgment analysis: A Markov chain based approach for aggregating crowdsourced opinions. Information Sciences, 2017, 396, 83-96.	6.9	8
44	Preservation affinity in consensus modules among stages of HIV-1 progression. BMC Bioinformatics, 2017, 18, 181.	2.6	15
45	An improved method for identification of small non-coding RNAs in bacteria using support vector machine. Scientific Reports, 2017, 7, 46070.	3.3	14
46	Genetic Algorithm-Based Matrix Factorization for Missing Value Prediction. Communications in Computer and Information Science, 2017, , 504-516.	0.5	1
47	Judgment Analysis Based on Crowdsourced Opinions. , 2017, , .		4
48	Analyzing Prognosis Characteristics of Hepatitis C using a Biclustering Based Approach. Procedia Computer Science, 2017, 115, 282-289.	2.0	9
49	DenvInt: A database of protein-protein interactions between dengue virus and its hosts. PLoS Neglected Tropical Diseases, 2017, 11, e0005879.	3.0	34
50	A comprehensive analysis on preservation patterns of gene co-expression networks during Alzheimer's disease progression. BMC Bioinformatics, 2017, 18, 579.	2.6	19
51	Polynomial equation models for yeast cell-cycle time series microarray data by analysing fidelity matrices of gene expression values. International Journal of Bioinformatics Research and Applications, 2016, 12, 194.	0.2	0
52	Interactive approach to multiobjective genetic fuzzy clustering for satellite image segmentation. , 2016, , .		2
53	Neuro-Fuzzy Controller Design to Navigate Unmanned Vehicle with Construction of Traffic Rules to Avoid Obstacles. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2016, 24, 433-449.	1.9	9
54	DCoSpect: A Novel Differentially Coexpressed Gene Module Detection Algorithm Using Spectral Clustering. Advances in Intelligent Systems and Computing, 2016, , 69-77.	0.6	2

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55	Comparison of gene regulatory networks using adaptive neural network and self-organising map approaches over Huh7 hepatoma cell microarray data matrix. International Journal of Bio-Inspired Computation, 2016, 8, 240.	0.9	2
56	MRI Brain Image Segmentation Using Interactive Multiobjective Evolutionary Approach. Advances in Computational Intelligence and Robotics Book Series, 2016, , 10-29.	0.4	0
57	Analyzing Large Gene Expression and Methylation Data Profiles Using StatBicRM: Statistical Biclustering-Based Rule Mining. PLoS ONE, 2015, 10, e0119448.	2.5	32
58	A PSO-Based Approach for Pathway Marker Identification From Gene Expression Data. IEEE Transactions on Nanobioscience, 2015, 14, 591-597.	3.3	17
59	Construction of Co-expression and Co-regulation Network with Differentially Expressed Genes in Bone Marrow Stem Cell Microarray Data. Advances in Intelligent Systems and Computing, 2015, , 761-769.	0.6	0
60	A Survey of Multiobjective Evolutionary Clustering. ACM Computing Surveys, 2015, 47, 1-46.	23.0	127
61	Prediction of protein subcellular localization by incorporating multiobjective PSO-based feature subset selection into the general form of Chou's PseAAC. Medical and Biological Engineering and Computing, 2015, 53, 331-344.	2.8	76
62	A novel PSO-based graph-theoretic approach for identifying most relevant and non-redundant gene markers from gene expression data. International Journal of Parallel, Emergent and Distributed Systems, 2015, 30, 175-192.	1.0	8
63	Partial rank aggregation using multiobjective genetic algorithm: Application in ranking genes. , 2015, , .		2
64	Multiobjective triclustering of time-series transcriptome data reveals key genes of biological processes. BMC Bioinformatics, 2015, 16, 200.	2.6	19
65	A multiobjective approach for identifying protein complexes and studying their association in multiple disorders. Algorithms for Molecular Biology, 2015, 10, 24.	1.2	19
66	A review of <i>in silico</i> approaches for analysis and prediction of HIV-1-human protein-protein interactions. Briefings in Bioinformatics, 2015, 16, 830-851.	6.5	30
67	RANWAR: Rank-Based Weighted Association Rule Mining From Gene Expression and Methylation Data. IEEE Transactions on Nanobioscience, 2015, 14, 59-66.	3.3	51
68	Detection of Differentially Expressed Genes in Wild Type HIV-1 Vpr and Two HIV-1 Mutant Vprs. Advances in Intelligent Systems and Computing, 2015, , 597-604.	0.6	1
69	A Comparative Study Among Various Statistical Tests Using Microarray Gene Expression Data. Current Bioinformatics, 2015, 10, 377-392.	1.5	0
70	Extracting Biological Significant Subnetworks from Protein-Protein Interactions Induced by Differentially Expressed Genes of HIV-1 Vpr Variants. International Journal of System Dynamics Applications, 2015, 4, 35-51.	0.3	1
71	A Graph-Theoretic Approach for Identifying Non-Redundant and Relevant Gene Markers from Microarray Data Using Multiobjective Binary PSO. PLoS ONE, 2014, 9, e90949.	2.5	35
72	Network-Based Study Reveals Potential Infection Pathways of Hepatitis-C Leading to Various Diseases. PLoS ONE, 2014, 9, e94029.	2.5	15

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73	A Matlab GUI Package for Comparing Data Clustering Algorithms. Studies in Computational Intelligence, 2014, , 33-48.	0.9	1
74	Detecting Perturbation in Co-Expression Modules Associated with Different Stages of HIV-1 Progression: A Multi-objective Evolutionary Approach. , 2014, , .		4
75	A Survey of Multiobjective Evolutionary Algorithms for Data Mining: Part I. IEEE Transactions on Evolutionary Computation, 2014, 18, 4-19.	10.0	319
76	Incorporating the type and direction information in predicting novel regulatory interactions between HIV-1 and human proteins using a biclustering approach. BMC Bioinformatics, 2014, 15, 26.	2.6	38
77	Survey of Multiobjective Evolutionary Algorithms for Data Mining: Part II. IEEE Transactions on Evolutionary Computation, 2014, 18, 20-35.	10.0	158
78	Identifying Non-Redundant Gene Markers from Microarray Data: A Multiobjective Variable Length PSO-Based Approach. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2014, 11, 1170-1183.	3.0	30
79	A Survey and Comparative Study of Statistical Tests for Identifying Differential Expression from Microarray Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2014, 11, 95-115.	3.0	105
80	Predicting Protein Subcellular Localization: A Multiobjective PSO-based Feature Subset Selection from Amino Acid Sequence of Protein. , 2014, , .		0
81	Coexpression and coregulation analysis of time-series gene expression data in estrogen-induced breast cancer cell. Algorithms for Molecular Biology, 2013, 8, 9.	1.2	39
82	Gene-Expression-Based Cancer Subtypes Prediction Through Feature Selection and Transductive SVM. IEEE Transactions on Biomedical Engineering, 2013, 60, 1111-1117.	4.2	45
83	An Interactive Approach to Multiobjective Clustering of Gene Expression Patterns. IEEE Transactions on Biomedical Engineering, 2013, 60, 35-41.	4.2	38
84	Fuzzy rule-based classifier for microarray gene expression data by using a multiobjective PSO-based approach. , 2013, , .		0
85	A PSO-based rank aggregation algorithm for ranking genes from microarray data. , 2013, , .		2
86	An SVM-Wrapped Multiobjective Evolutionary Feature Selection Approach for Identifying Cancer-MicroRNA Markers. IEEE Transactions on Nanobioscience, 2013, 12, 275-281.	3.3	39
87	Hybrid evolutionary multiobjective fuzzy c-medoids clustering of categorical data. , 2013, , .		2
88	Incorporating fuzzy semantic similarity measure in detecting human protein complexes in PPI network: A multiobjective approach. , 2013, , .		4
89	A Hybrid Multiobjective Particle Swarm Optimization Approach for Non-redundant Gene Marker Selection. Advances in Intelligent Systems and Computing, 2013, , 205-216.	0.6	6
90	Clustering Ensemble: A Multiobjective Genetic Algorithm based Approach. Procedia Technology, 2013, 10, 443-449.	1.1	17

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91	Integrated analysis of gene expression and genome-wide DNA methylation for tumor prediction: An association rule mining-based approach. , 2013, , .		23
92	Mining Quasi-Bicliques from HIV-1-Human Protein Interaction Network: A Multiobjective Biclustering Approach. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2013, 10, 423-435.	3.0	29
93	Unsupervised Non-redundant Feature Selection: A Graph-Theoretic Approach. Advances in Intelligent Systems and Computing, 2013, , 373-380.	0.6	7
94	Integrated Statistical and Rule-Mining Techniques for Dna Methylation and Gene Expression Data Analysis. Journal of Artificial Intelligence and Soft Computing Research, 2013, 3, 101-115.	4.3	12
95	A multiobjective PSO-based approach for identifying non-redundant gene markers from microarray gene expression data. , 2012, , .		6
96	Identifying most relevant non-redundant gene markers from gene expression data using PSO-based graph -theoretic approach. , 2012, , .		1
97	An application of genetic algorithm method for solving patrol manpower deployment problems through fuzzy goal programming in traffic management system: a case study. International Journal of Bio-Inspired Computation, 2012, 4, 47.	0.9	21
98	Power-aware traffic grooming in WDM optical mesh networks for bandwidth wastage minimization: A genetic algorithm-based approach. , 2012, , .		1
99	Predicting annotated HIV-1-Human PPIs using a biclustering approach to association rule mining. , 2012, , .		5
100	Detecting protein complexes in a PPI network: a gene ontology based multi-objective evolutionary approach. Molecular BioSystems, 2012, 8, 3036.	2.9	44
101	A Novel Biclustering Approach to Association Rule Mining for Predicting HIV-1â€™Human Protein Interactions. PLoS ONE, 2012, 7, e32289.	2.5	51
102	Using Genetic Algorithm to Goal Programming Model of Solving Economic-Environmental Electric Power Generation Problem with Interval-Valued Target Goals. Communications in Computer and Information Science, 2012, , 156-169.	0.5	1
103	A New Approach for Association Rule Mining and Bi-clustering Using Formal Concept Analysis. Lecture Notes in Computer Science, 2012, , 86-101.	1.3	26
104	Î-TRIMAX: Extracting Triclusters and Analysing Coregulation in Time Series Gene Expression Data. Lecture Notes in Computer Science, 2012, , 165-177.	1.3	11
105	Identifying the immunodeficiency gateway proteins in humans and their involvement in microRNA regulation. Molecular BioSystems, 2011, 7, 1842.	2.9	10
106	Discovery of MicroRNA markers: An SVM-based multiobjective feature selection approach. , 2011, , .		4
107	Bio-inspired computational technique to multiobjective optimal planning of electric power generation and dispatch. , 2011, , .		1
108	Multiobjective Genetic Algorithms for Clustering. , 2011, , .		85

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109	A multiobjective approach to MR brain image segmentation. Applied Soft Computing Journal, 2011, 11, 872-880.	7.2	93
110	Data Mining Fundamentals. , 2011, , 51-70.		2
111	MOSCFRA: A Multi-objective Genetic Approach for Simultaneous Clustering and Gene Ranking. Lecture Notes in Computer Science, 2011, , 174-187.	1.3	5
112	Selection of GO-Based Semantic Similarity Measures through AMDE for Predicting Protein-Protein Interactions. Lecture Notes in Computer Science, 2011, , 55-62.	1.3	1
113	Two-Stage Fuzzy Clustering. , 2011, , 147-171.		0
114	Gene expression data analysis using multiobjective clustering improved with SVM based ensemble. In Silico Biology, 2011, 11, 19-27.	0.9	1
115	On Biclustering of Gene Expression Data. Current Bioinformatics, 2010, 5, 204-216.	1.5	30
116	Lightpath protection using genetic algorithm through topology mapping in WDM optical networks. Journal of Optics (India), 2010, 39, 32-38.	1.7	1
117	Multiobjective genetic algorithm based approach to traffic grooming in unidirectional SONET/WDM rings. Journal of Optics (India), 2010, 39, 136-142.	1.7	2
118	Simulated annealing based automatic fuzzy clustering combined with ANN classification for analyzing microarray data. Computers and Operations Research, 2010, 37, 1369-1380.	4.0	33
119	Mining association rules from HIV-human protein interactions. , 2010, , .		10
120	COGA: GO-driven Genetic Algorithm-based fuzzy clustering of gene expression data. , 2010, , .		4
121	Simultaneous informative gene selection and clustering through multiobjective optimization. , 2010, , .		3
122	Multi-Class Clustering of Cancer Subtypes through SVM Based Ensemble of Pareto-Optimal Solutions for Gene Marker Identification. PLoS ONE, 2010, 5, e13803.	2.5	43
123	Discovering Coherent Biclusters from Microarray Gene Expression Data. , 2010, , .		0
124	Unsupervised Satellite Image Segmentation by Combining SA Based Fuzzy Clustering with Support Vector Machine. , 2009, , .		13
125	Analysis of microarray data using multiobjective variable string length genetic fuzzy clustering. , 2009, , .		9
126	A NOVEL COHERENCE MEASURE FOR DISCOVERING SCALING BICLUSTERS FROM GENE EXPRESSION DATA. Journal of Bioinformatics and Computational Biology, 2009, 07, 853-868.	0.8	43

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127	Finding Multiple Coherent Biclusters in Microarray Data Using Variable String Length Multiobjective Genetic Algorithm. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 969-975.	3.2	25
128	Multiobjective Genetic Algorithm-Based Fuzzy Clustering of Categorical Attributes. IEEE Transactions on Evolutionary Computation, 2009, 13, 991-1005.	10.0	102
129	Unsupervised Pixel Classification in Satellite Imagery Using Multiobjective Fuzzy Clustering Combined With SVM Classifier. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1132-1138.	6.3	72
130	Multiobjective evolutionary approach to cost-effective traffic grooming in unidirectional SONET/WDM rings. Photonic Network Communications, 2009, 18, 105-115.	2.7	4
131	Towards improving fuzzy clustering using support vector machine: Application to gene expression data. Pattern Recognition, 2009, 42, 2744-2763.	8.1	48
132	Combining Fuzzy Clustering with ANN Classifier for Categorical Data. , 2009, , .		1
133	Unsupervised cancer classification through SVM-boosted multiobjective fuzzy clustering with majority voting ensemble. , 2009, , .		4
134	Multiobjective Genetic Clustering with Ensemble Among Pareto Front Solutions: Application to MRI Brain Image Segmentation. , 2009, , .		33
135	Combining Pareto-optimal clusters using supervised learning for identifying co-expressed genes. BMC Bioinformatics, 2009, 10, 27.	2.6	86
136	Refining Genetic Algorithm Based Fuzzy Clustering through Supervised Learning for Unsupervised Cancer Classification. Lecture Notes in Computer Science, 2009, , 191-202.	1.3	3
137	Combining multiobjective fuzzy clustering and probabilistic ANN classifier for unsupervised pattern classification: Application to satellite image segmentation. , 2008, , .		8
138	Genetic Algorithm and Simulated Annealing based Approaches to Categorical Data Clustering. , 2008, , .		7
139	Multiobjective fuzzy biclustering in microarray data: Method and a new performance measure. , 2008, , .		13
140	Evolving coherent and non-trivial biclusters from gene expression data: An evolutionary approach. , 2008, , .		2
141	Improving multi-objective clustering through support vector machine: Application to gene expression data. , 2008, , .		0
142	MULTIOBJECTIVE EVOLUTIONARY APPROACH TO FUZZY CLUSTERING OF MICROARRAY DATA. Science, Engineering, and Biology Informatics, 2007, , 303-328.	0.1	15
143	An improved algorithm for clustering gene expression data. Bioinformatics, 2007, 23, 2859-2865.	4.1	239
144	Multiobjective Genetic Fuzzy Clustering of Categorical Attributes. , 2007, , .		0

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145	Multiobjective Genetic Clustering for Pixel Classification in Remote Sensing Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1506-1511.	6.3	254
146	Multiobjective approach to categorical data clustering. , 2007, , .		12
147	Multiobjective Genetic Fuzzy Clustering of Categorical Attributes. , 2007, , .		16
148	Clustering using Multi-objective Genetic Algorithm and its Application to Image Segmentation. , 2006, , .		27
149	Efficient Two-stage Fuzzy Clustering of Microarray Gene Expression Data. , 2006, , .		4
150	A Heuristic Algorithm for Static Wavelength Assignment in WDM Optical Networks. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2005, 22, 199-204.	3.2	12
151	Minimization of SADMs in Unidirectional SONET/WDM Rings Using Genetic Algorithms. Chapman & Hall/CRC Computer and Information Science Series, 2005, , 14-209-14-218.	0.4	2
152	A genetic algorithm for traffic grooming in unidirectional SONET/WDM rings. , 0, , .		4
153	Machine Learning and Rule Mining Techniques in the Study of Gene Inactivation and RNA Interference. , 0, , .		2