Alok Singh

List of Publications by Citations

95 papers	1,396 citations	20 h-index	34 g-index
99 ext. papers	1,597 ext. citations	3.3 avg, IF	5.51 L-index

#	Paper	IF	Citations
95	An artificial bee colony algorithm for the leaf-constrained minimum spanning tree problem. *Applied Soft Computing Journal*, **2009**, 9, 625-631	7.5	338
94	A swarm intelligence approach to the quadratic minimum spanning tree problem. *Information Sciences*, **2010**, 180, 3182-3191	7.7	82
93	A new grouping genetic algorithm approach to the multiple traveling salesperson problem. *Soft Computing*, **2009**, 13, 95-101	3.5	64
92	Two metaheuristic approaches for the multiple traveling salesperson problem. *Applied Soft Computing Journal*, **2015**, 26, 74-89	7.5	58
91	Hybrid metaheuristic algorithms for minimum weight dominating set. *Applied Soft Computing Journal*, **2013**, 13, 76-88	7.5	38
90	A swarm intelligence approach to the early/tardy scheduling problem. *Swarm and Evolutionary Computation*, **2012**, 4, 25-32	9.8	35
89	A hybrid heuristic for the maximum clique problem. *Journal of Heuristics*, **2006**, 12, 5-22	1.9	33
88	An artificial bee colony algorithm for the minimum routing cost spanning tree problem. *Soft Computing*, **2011**, 15, 2489-2499	3.5	30
87	Two heuristics for the one-dimensional bin-packing problem. *OR Spectrum*, **2007**, 29, 765-781	1.9	30
86	Lifetime maximization in wireless directional sensor network. *European Journal of Operational Research*, **2013**, 231, 229-241	5.6	29
85	An exact approach for maximizing the lifetime of sensor networks with adjustable sensing ranges. *Computers and Operations Research*, **2012**, 39, 3166-3176	4.6	26
84	An artificial bee colony algorithm with variable degree of perturbation for the generalized covering traveling salesman problem. *Applied Soft Computing Journal*, **2019**, 78, 481-495	7.5	25
83	Hybrid evolutionary approaches for the single machine order acceptance and scheduling problem. *Applied Soft Computing Journal*, **2017**, 52, 725-747	7.5	25
82	Improved heuristics for the bounded-diameter minimum spanning tree problem. *Soft Computing*, **2007**, 11, 911-921	3.5	24
81	Column generation algorithm for sensor coverage scheduling under bandwidth constraints. *Networks*, **2012**, 60, 141-154	1.6	23
80	A genetic algorithm based exact approach for lifetime maximization of directional sensor networks. *Ad Hoc Networks*, **2013**, 11, 1006-1021	4.8	23
79	A hybrid genetic algorithm for the minimum energy broadcast problem in wireless ad hoc networks. *Applied Soft Computing Journal*, **2011**, 11, 667-674	7.5	23

78	A Swarm Intelligence Approach to the Quadratic Multiple Knapsack Problem. *Lecture Notes in Computer Science*, **2010**, 626-633	0.9	21
77	A hyper-heuristic based artificial bee colony algorithm for k-Interconnected multi-depot multi-traveling salesman problem. *Information Sciences*, **2018**, 463-464, 261-281	7.7	20
76	A HYBRID HEURISTIC FOR THE MINIMUM WEIGHT VERTEX COVER PROBLEM. *Asia-Pacific Journal of Operational Research*, **2006**, 23, 273-285	0.8	20
75	A hybrid swarm intelligence approach to the registration area planning problem. *Information Sciences*, **2015**, 302, 50-69	7.7	19
74	An Artificial Bee Colony Algorithm for the 0□1 Multidimensional Knapsack Problem. *Communications in Computer and Information Science*, **2010**, 141-151	0.3	18
73	New heuristic approaches for the dominating tree problem. *Applied Soft Computing Journal*, **2013**, 13, 4695-4703	7.5	17
72	Matheuristic approaches for Q-coverage problem versions in wireless sensor networks. *Engineering Optimization*, **2013**, 45, 609-626	2	17
71	A swarm intelligence approach for the colored traveling salesman problem. *Applied Intelligence*, **2018**, 48, 4412-4428	4.9	16
70	Genetic algorithms for single machine scheduling with quadratic earliness and tardiness costs. *International Journal of Advanced Manufacturing Technology*, **2011**, 54, 251-265	3.2	16
69	New heuristics for two bounded-degree spanning tree problems. *Information Sciences*, **2012**, 195, 226-240	7.7	15
68	A hybrid heuristic for the set covering problem. *Operational Research*, **2012**, 12, 345-365	1.6	15
67	Artificial bee colony algorithm for clustering: an extreme learning approach. *Soft Computing*, **2016**, 20, 3163-3176	3.5	14
66	A metaheuristic for the fixed job scheduling problem under spread time constraints. *Computers and Operations Research*, **2010**, 37, 1045-1054	4.6	14
65	A hybrid evolutionary algorithm with guided mutation for minimum weight dominating set. *Applied Intelligence*, **2015**, 43, 512-529	4.9	13
64	An Artificial Bee Colony Algorithm for the Quadratic Knapsack Problem. *Lecture Notes in Computer Science*, **2009**, 196-205	0.9	13
63	NSGA-II with objective-specific variation operators for multiobjective vehicle routing problem with time windows. *Expert Systems With Applications*, **2021**, 176, 114779	7.8	13
62	A hybrid artificial bee colony algorithm for the cooperative maximum covering location problem. *International Journal of Machine Learning and Cybernetics*, **2017**, 8, 691-697	3.8	12
61	Swarm intelligence approaches for cover scheduling problem in wireless sensor networks. *International Journal of Bio-Inspired Computation*, **2015**, 7, 50	2.9	12

60	Two hybrid metaheuristic approaches for the covering salesman problem. *Neural Computing and Applications*, **2020**, 32, 15643-15663	4.8	11
59	Metaheuristic Approaches for the Blockmodel Problem. *IEEE Systems Journal*, **2015**, 9, 1237-1247	4.3	10
58	A hybrid heuristic for dominating tree problem. *Soft Computing*, **2016**, 20, 377-397	3.5	9
57	Swarm intelligence approaches for multidepot salesmen problems with load balancing. *Applied Intelligence*, **2016**, 44, 849-861	4.9	9
56	Metaheuristic algorithms for computing capacitated dominating set with uniform and variable capacities. *Swarm and Evolutionary Computation*, **2013**, 13, 22-33	9.8	9
55	NEW METAHEURISTIC APPROACHES FOR THE LEAF-CONSTRAINED MINIMUM SPANNING TREE PROBLEM. *Asia-Pacific Journal of Operational Research*, **2008**, 25, 575-589	0.8	9
54	Two swarm intelligence approaches for tuning extreme learning machine. *International Journal of Machine Learning and Cybernetics*, **2018**, 9, 1271-1283	3.8	8
53	A hybrid evolutionary approach to the registration area planning problem. *Applied Intelligence*, **2014**, 41, 1127-1149	4.9	8
52	A HYBRID PERMUTATION-CODED EVOLUTIONARY ALGORITHM FOR THE EARLY/TARDY SCHEDULING PROBLEM. *Asia-Pacific Journal of Operational Research*, **2010**, 27, 713-725	0.8	7
51	Heuristics for lifetime maximization in camera sensor networks. *Information Sciences*, **2017**, 385-386, 475-491	7.7	6
50	A Multi-start Iterated Local Search Algorithm with Variable Degree of Perturbation for the Covering Salesman Problem. *Advances in Intelligent Systems and Computing*, **2019**, 279-292	0.4	6
49	Hybrid artificial bee colony algorithm based approaches for two ring loading problems. *Applied Intelligence*, **2017**, 47, 1157-1168	4.9	6
48	Two grouping-based metaheuristics for clique partitioning problem. *Applied Intelligence*, **2017**, 47, 430-442	4.9	6
47	A hybrid artificial bee colony algorithm for the p-median problem with positive/negative weights. *Opsearch*, **2017**, 54, 67-93	1.6	6
46	Hybrid metaheuristic approaches for the single machine total stepwise tardiness problem with release dates. *Operational Research*, **2017**, 17, 275-295	1.6	5
45	A hybrid evolutionary approach for set packing problem. *Opsearch*, **2015**, 52, 271-284	1.6	5
44	Group scheduling problems in directional sensor networks. *Engineering Optimization*, **2015**, 47, 1651-1669	2	5
43	Cutting-plane-based algorithms for two branch vertices related spanning tree problems. *Optimization and Engineering*, **2014**, 15, 855-887	2.1	5

42	Two Hybrid Meta-heuristic Approaches for Minimum Dominating Set Problem. *Lecture Notes in Computer Science*, **2011**, 97-104	0.9	5
41	A New Heuristic for the Minimum Routing Cost Spanning Tree Problem **2008**,		5
40	A Hybrid Grouping Genetic Algorithm for Multiprocessor Scheduling. *Communications in Computer and Information Science*, **2009**, 1-7	0.3	5
39	On the Cover Scheduling Problem in Wireless Sensor Networks. *Lecture Notes in Computer Science*, **2011**, 657-668	0.9	5
38	An artificial bee colony algorithm for minimum weight dominating set **2014**,		4
37	Hybrid heuristics for the single machine scheduling problem with quadratic earliness and tardiness costs. *International Journal of Machine Learning and Cybernetics*, **2012**, 3, 327-333	3.8	4
36	A Hybrid Swarm Intelligence Approach for Anti-Covering Location Problem **2019**,		4
35	An evolution strategy based approach for cover scheduling problem in wireless sensor networks. *International Journal of Machine Learning and Cybernetics*, **2020**, 11, 1981-2006	3.8	3
34	A Multi-Start Iterated Local Search Algorithm for the Maximum Scatter Traveling Salesman Problem **2019**,		3
33	TABU SEARCH FOR MULTIPROCESSOR SCHEDULING: APPLICATION TO HIGH LEVEL SYNTHESIS. *Asia-Pacific Journal of Operational Research*, **2011**, 28, 201-212	0.8	3
32	Boosting an evolution strategy with a preprocessing step: application to group scheduling problem in directional sensor networks. *Applied Intelligence*, **2018**, 48, 4760-4774	4.9	3
31	A Novel ELM K-Means Algorithm for Clustering. *Lecture Notes in Computer Science*, **2015**, 212-222	0.9	2
30	Two multi-start heuristics for the k-traveling salesman problem. *Opsearch*, **2020**, 57, 1164-1204	1.6	2
29	A Greedy Heuristic and Its Variants for Minimum Capacitated Dominating Set. *Communications in Computer and Information Science*, **2012**, 28-39	0.3	2
28	An artificial bee colony algorithm based approach to the constrained p-center problem **2012**,		2
27	Hybridization of Artificial Bee Colony Algorithm with Estimation of Distribution Algorithm for Minimum Weight Dominating Set Problem. *Advances in Intelligent Systems and Computing*, **2021**, 607-619	0.4	2
26	Design of an Efficient Verification Scheme for Correctness of Outsourced Computations in Cloud Computing. *Communications in Computer and Information Science*, **2015**, 66-77	0.3	2
25	A Hybrid Discrete Differential Evolution Approach for the Single Machine Total Stepwise Tardiness Problem with Release Dates **2021**,		2

24	Focus distance-aware lifetime maximization of video camera-based wireless sensor networks. *Journal of Heuristics*, **2021**, 27, 5-30	1.9	2
23	A general variable neighborhood search algorithm for the k-traveling salesman problem. *Procedia Computer Science*, **2018**, 143, 189-196	1.6	2
22	Multi-start heuristics for the profitable tour problem. *Swarm and Evolutionary Computation*, **2021**, 64, 100897	9.8	2
21	A swarm intelligence approach for the p-median problem. *International Journal of Metaheuristics*, **2016**, 5, 136	0.8	1
20	Two swarm intelligence-based approaches for the p-centre problem. *International Journal of Swarm Intelligence*, **2018**, 3, 290	0.3	1
19	Combining ELM with Random Projections for Low and High Dimensional Data Classification and Clustering. *Advances in Intelligent Systems and Computing*, **2015**, 89-107	0.4	1
18	An effective heuristic for construction of all-to-all minimum power broadcast trees in wireless networks **2014**,		1
17	A study on energy issues in construction of all-to-all minimum power broadcast (A2A MPB) trees in wireless networks **2013**,		1
16	An Evolutionary Approach to Multi-point Relays Selection in Mobile Ad Hoc Networks. *Lecture Notes in Computer Science*, **2019**, 375-384	0.9	1
15	Heuristics for Minimum Weight Directed Dominating Set Problem. *Communications in Computer and Information Science*, **2020**, 494-507	0.3	1
14	A Hybrid Artificial Bee Colony Algorithm for the Terminal Assignment Problem. *Lecture Notes in Computer Science*, **2015**, 134-144	0.9	1
13	Grouping Genetic Algorithm for Data Clustering. *Lecture Notes in Computer Science*, **2011**, 225-232	0.9	1
12	A simple hyper-heuristic approach for a variant of many-to-many hub location-routing problem. *Journal of Heuristics*, **2021**, 27, 791-868	1.9	1
11	Multi-start iterated local search, exact and matheuristic approaches for minimum capacitated dominating set problem. *Applied Soft Computing Journal*, **2021**, 108, 107437	7.5	1
10	Metaheuristic Approaches for Multiprocessor Scheduling. *Advances in Intelligent Systems and Computing*, **2014**, 721-731	0.4	0
9	Evolutionary approaches for the weighted anti-covering location problem. *Evolutionary Intelligence*,1	1.7	0
8	Swarm intelligence, exact and matheuristic approaches for minimum weight directed dominating set problem. *Engineering Applications of Artificial Intelligence*, **2022**, 109, 104647	7.2	0
7	Properties and Exact Solution Approaches for the Minimum Cost Dominating Tree Problem. *Lecture Notes in Computer Science*, **2018**, 3-26	0.9	

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6	An Artificial Bee Colony Algorithm for the Minimum Average Routing Path Clustering Problem in Multi-hop Underwater Sensor Networks. *Communications in Computer and Information Science*, **2012**, 212-219	0.3
5	An Ant Colony Optimization Algorithm for the Min-Degree Constrained Minimum Spanning Tree Problem. *Lecture Notes in Computer Science*, **2013**, 85-94	0.9
4	p-shrink: A Heuristic for Improving Minimum All-to-All Power Broadcast Trees in Wireless Networks. *Lecture Notes in Electrical Engineering*, **2014**, 61-69	0.2
3	An Ant Colony Optimization Approach for the Dominating Tree Problem. *Lecture Notes in Computer Science*, **2016**, 143-153	0.9
2	Heuristics for Generalized Minimum Dominating Set Problem. *Advances in Intelligent Systems and Computing*, **2021**, 313-327	0.4
1	An evolutionary approach for obnoxious cooperative maximum covering location problem. *Applied Intelligence*,1	4.9