Rakesh Nagi

List of Publications by Year in Descending Order

85 papers	2,134 citations	22 h-index	44 g-index
90 ext. papers	2,462 ext. citations	5.1 avg, IF	5.15 L-index

#	Paper	IF	Citations
85	Risk-Averse Equilibria for Vehicle Navigation in Stochastic Congestion Games. *IEEE Transactions on Intelligent Transportation Systems*, **2022**, 1-17	6.1	2
84	Stochastic Superiority Equilibrium in Game Theory. *Decision Analysis*, **2021**, 18, 153-168	1.2	0
83	Seed Investment Bounds for Viral Marketing Under Generalized Diffusion and Selection Guidance. *IEEE Transactions on Computational Social Systems*, **2021**, 8, 546-556	4.5	0
82	Limited-trust equilibria. *European Journal of Operational Research*, **2021**, 289, 364-380	5.6	0
81	A Framework to Assess Risk of Illicit Trades Using Bayesian Belief Networks. *IFIP Advances in Information and Communication Technology*, **2021**, 504-513	0.5	
80	GPU-accelerated Lagrangian heuristic for multidimensional assignment problems with decomposable costs. *Parallel Computing*, **2020**, 97, 102666	1	2
79	Blind GB-PANDAS: A Blind Throughput-Optimal Load Balancing Algorithm for Affinity Scheduling. *IEEE/ACM Transactions on Networking*, **2020**, 28, 1199-1212	3.8	5
78	Prize Collecting Multiagent Orienteering: Price of Anarchy Bounds and Solution Methods. *IEEE Transactions on Automation Science and Engineering*, **2020**, 1-14	4.9	1
77	Sensor tasking for unmanned aerial vehicles in disaster management missions with limited communications bandwidth. *Computers and Industrial Engineering*, **2020**, 149, 106754	6.4	0
76	Multiagent UAV Routing: A Game Theory Analysis With Tight Price of Anarchy Bounds. *IEEE Transactions on Automation Science and Engineering*, **2020**, 17, 100-116	4.9	17
75	Level 2 Reformulation Linearization Technique Based Parallel Algorithms for Solving Large Quadratic Assignment Problems on Graphics Processing Unit Clusters. *INFORMS Journal on Computing*, **2019**, 31, 771-789	2.4	2
74	An incremental graph-partitioning algorithm for entity resolution. *Information Fusion*, **2019**, 46, 171-183	16.7	8
73	Seed activation scheduling for influence maximization in social networks. *Omega*, **2018**, 77, 96-114	7.2	20
72	Controlling a Fleet of Unmanned Aerial Vehicles to Collect Uncertain Information in a Threat Environment. *Operations Research*, **2017**, 65, 674-692	2.3	19
71	The temporal aspects of the evidence-based influence maximization on social networks. This research was conducted in part at the Department of Computer Science and Information Systems, University of Jyvaskyla, P.O. Box 35, Jyvaskyla, FI-40014, Finland.View all notes. *Optimization Methods and Software*, **2017**, 32, 290-311	1.3	2
70	Collaborative (CPU + GPU) algorithms for triangle counting and truss decomposition on the Minsky architecture: Static graph challenge: Subgraph isomorphism **2017**,		13
69	Precedence tree guided search for the efficient identification of multiple situations of interest + AND/OR graph matching. *Information Fusion*, **2016**, 27, 240-254	16.7	1

68	Social Network Analysis With Data Fusion. *IEEE Transactions on Computational Social Systems*, **2016**, 3, 88-99	4.5	17
67	GPU-accelerated Hungarian algorithms for the Linear Assignment Problem. *Parallel Computing*, **2016**, 57, 52-72	1	18
66	A penalty box approach for approximation betweenness and closeness centrality algorithms. *Social Network Analysis and Mining*, **2016**, 6, 1	2.2	1
65	A subjective evidence model for influence maximization in social networks. *Omega*, **2016**, 59, 263-278	7.2	15
64	Network and QoS-Based Selection of Complementary Services. *IEEE Transactions on Services Computing*, **2015**, 8, 79-91	4.8	18
63	Towards context aware data fusion: Modeling and integration of situationally qualified human observations to manage uncertainty in a hard+soft fusion process. *Information Fusion*, **2015**, 21, 130-144	16.7	11
62	An integrated model for site selection and space determination of warehouses. *Computers and Operations Research*, **2015**, 62, 169-176	4.6	15
61	MAVERICK: A Synthetic Murder Mystery Network Dataset to Support Sensemaking Research. *Procedia Manufacturing*, **2015**, 3, 5036-5043	1.5	
60	Efficient algorithms for incremental all pairs shortest paths, closeness and betweenness in social network analysis. *Social Network Analysis and Mining*, **2014**, 4, 1	2.2	10
59	Dominance rules for the optimal placement of a finite-size facility in an existing layout. *Computers and Operations Research*, **2014**, 51, 182-189	4.6	4
58	A fuzzy graph matching approach in intelligence analysis and maintenance of continuous situational awareness. *Information Fusion*, **2014**, 18, 43-61	16.7	14
57	Solving assembly scheduling problems with tree-structure precedence constraints: A Lagrangian relaxation approach. *IEEE Transactions on Automation Science and Engineering*, **2013**, 10, 757-771	4.9	14
56	A map-reduce lagrangian heuristic for multidimensional assignment problems with decomposable costs. *Parallel Computing*, **2013**, 39, 653-668	1	12
55	Multi-echelon supply chain network design in agile manufacturing. *Omega*, **2013**, 41, 969-983	7.2	60
54	Identical parallel machine scheduling to minimise makespan and total weighted completion time: a column generation approach. *International Journal of Production Research*, **2013**, 51, 7091-7104	7.8	7
53	The graph association problem: Mathematical models and a lagrangian heuristic. *Naval Research Logistics*, **2013**, 60, 251-268	1.5	8
52	Investigating and Improving Network Visualizations Effectiveness at Supporting Human Sensemaking Tasks. *Proceedings of the Human Factors and Ergonomics Society*, **2013**, 57, 235-239	0.4	
51	Simultaneous sensor selection and routing of unmanned aerial vehicles for complex mission plans. *Computers and Operations Research*, **2012**, 39, 2787-2799	4.6	50

50	An Efficient Map-Reduce Algorithm for the Incremental Computation of All-Pairs Shortest Paths in Social Networks **2012**,		2
49	Designing manufacturing facility layouts to mitigate congestion. *IIE Transactions*, **2011**, 43, 689-702		11
48	Soft information, dirty graphs and uncertainty representation/processing for situation understanding **2010**,		3
47	A machine learning approach to optimise the usage of recycled material in a remanufacturing environment. *International Journal of Production Research*, **2010**, 48, 933-955	7.8	5
46	Enhancements to high level data fusion using graph matching and state space search. *Information Fusion*, **2010**, 11, 351-364	16.7	12
45	Robust supply chain design under uncertain demand in agile manufacturing. *Computers and Operations Research*, **2010**, 37, 668-683	4.6	161
44	Simultaneous siting and sizing of distribution centers on a plane. *Annals of Operations Research*, **2009**, 167, 157-170	3.2	1
43	Facility placement with sub-aisle design in an existing layout. *European Journal of Operational Research*, **2009**, 197, 154-165	5.6	7
42	Finding rectilinear least cost paths in the presence of convex polygonal congested regions. *Computers and Operations Research*, **2009**, 36, 737-754	4.6	4
41	Modeling of Workflow Congestion and Optimization of Flow Routing in a Manufacturing/Warehouse Facility. *Management Science*, **2009**, 55, 267-280	3.9	31
40	Extracting Assembly Mating Graphs for Assembly Variant Design. *Journal of Computing and Information Science in Engineering*, **2009**, 9,	2.4	20
39	A Spatial Decision Support System Combining GIS and OR Tools to Optimize District Boundaries and Bus Routes for a Suburban School District. *OR Insight*, **2008**, 21, 3-16		3
38	Priority-based assignment and routing of a fleet of unmanned combat aerial vehicles. *Computers and Operations Research*, **2008**, 35, 1813-1828	4.6	80
37	Contour line construction for a new rectangular facility in an existing layout with rectangular departments. *European Journal of Operational Research*, **2007**, 180, 149-162	5.6	24
36	Placing a finite size facility with a center objective on a rectangular plane with barriers. *European Journal of Operational Research*, **2007**, 179, 1160-1176	5.6	27
35	Batch splitting in an assembly scheduling environment. *International Journal of Production Economics*, **2007**, 105, 372-384	9.3	8
34	Economics of Managerial Neglect in Supply Chain Delivery Performance. *Engineering Economist*, **2006**, 51, 1-17	0.8	17
33	Data mining in an engineering design environment: OR applications from graph matching. *Computers and Operations Research*, **2006**, 33, 3150-3160	4.6	25

32	Cost characterizations of supply chain delivery performance. *International Journal of Production Economics*, **2006**, 102, 22-36	9.3	52
31	Complex assembly variant design in agile manufacturing. Part I: System architecture and assembly modeling methodology. *IIE Transactions*, **2005**, 37, 1-15		10
30	Planar area location/layout problem in the presence of generalized congested regions with the rectilinear distance metric. *IIE Transactions*, **2005**, 37, 35-50		12
29	Clustering Sensors in Wireless Ad Hoc Networks Operating in a Threat Environment. *Operations Research*, **2005**, 53, 432-442	2.3	14
28	Scheduling injection molding operations with multiple resource constraints and sequence dependent setup times and costs. *Computers and Operations Research*, **2005**, 32, 2987-3005	4.6	41
27	The K-Connection Location Problem in a Plane. *Annals of Operations Research*, **2005**, 136, 193-209	3.2	9
26	Complex assembly variant design in agile manufacturing. Part II: Assembly variant design methodology. *IIE Transactions*, **2005**, 37, 17-33		11
25	Strategic capacity planning in supply chain design for a new market opportunity. *International Journal of Production Research*, **2004**, 42, 2197-2206	7.8	24
24	A Data Mining Approach to Forming Generic Bills of Materials in Support of Variant Design Activities. *Journal of Computing and Information Science in Engineering*, **2004**, 4, 316-328	2.4	38
23	Commentary on facility location in the presence of congested regions with the rectilinear distance metric. *Socio-Economic Planning Sciences*, **2004**, 38, 291-306	3.7	11
22	Locating a 1-Center on a Manhattan Plane with Arbitrarily Shaped Barriers. *Annals of Operations Research*, **2003**, 123, 157-172	3.2	16
21	Variable capacity sizing and selection of connections in a facility layout. *IIE Transactions*, **2003**, 35, 49-59		13
20	Design of distributed information systems for agile manufacturing virtual enterprises using CORBA and STEP standards. *Journal of Manufacturing Systems*, **2002**, 21, 14-31	9.1	27
19	Supply facility and input/output point locations in the presence of barriers. *Computers and Operations Research*, **2002**, 29, 685-699	4.6	16
18	Finite-Size Facility Placement in the Presence of Barriers to Rectilinear Travel. *Operations Research*, **2002**, 50, 1018-1031	2.3	36
17	A review of agile manufacturing systems. *International Journal of Production Research*, **2001**, 39, 3561-3600	7.8	199
16	New lot-sizing formulations for less nervous production schedules. *Computers and Operations Research*, **2000**, 27, 1325-1345	4.6	32
15	STEP-based feature extraction from STEP geometry for Agile Manufacturing. *Computers in Industry*, **2000**, 41, 3-24	11.6	97

14	Migrating from IGES to STEP: one to one translation of IGES drawing to STEP drafting data. *Computers in Industry*, **2000**, 41, 261-277	11.6	25
13	Cycle time reduction by improved MRP-based production planning. *International Journal of Production Research*, **2000**, 38, 4823-4841	7.8	17
12	A review of integrated analysis of production-distribution systems. *IIE Transactions*, **1999**, 31, 1061-1074		439
11	Fuzzy set theory applications in production management research: a literature survey. *Journal of Intelligent Manufacturing*, **1998**, 9, 39-56	6.7	103
10	An integrated formulation of manufacturing cell formation with capacity planning and multiple routings. *Annals of Operations Research*, **1998**, 77, 79-95	3.2	25
9	Automated retrieval and ranking of similar parts in agile manufacturing. *IIE Transactions*, **1997**, 29, 859-876		2
8	Design and implementation of a virtual information system for agile manufacturing. *IIE Transactions*, **1997**, 29, 839-857		8
7	A production order-driven AGV control model with object-oriented implementation. *Computer Integrated Manufacturing Systems*, **1997**, 10, 35-48		5
6	Manufacturing cell formation by state-space search. *Annals of Operations Research*, **1996**, 65, 35-54	3.2	9
5	A hybrid GA-SA algorithm for just-in-time scheduling of multi-level assemblies. *Computers and Industrial Engineering*, **1996**, 30, 1047-1060	6.4	22
4	Comparison of gradient estimation techniques for queues with non-identical servers. *Computers and Operations Research*, **1995**, 22, 715-729	4.6	8
3	Bias properties of infinitesimal perturbation analysis for systems with parallel servers. *Computers and Operations Research*, **1992**, 19, 409-423	4.6	1
2	A cost-based analysis for risk-averse explore-then-commit finite-time bandits. *IISE Transactions*, 1-15	3.3	2
1	A review of research in illicit supply-chain networks and new directions to thwart them. *IISE Transactions*, 1-59	3.3	3