

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A review of integrated analysis of production-distribution systems. <i>IIE Transactions</i> , 1999 , 31, 1061-1074		439
84	A review of agile manufacturing systems. <i>International Journal of Production Research</i> , 2001 , 39, 3561-3608		199
83	Robust supply chain design under uncertain demand in agile manufacturing. <i>Computers and Operations Research</i> , 2010 , 37, 668-683	4.6	161
82	Fuzzy set theory applications in production management research: a literature survey. <i>Journal of Intelligent Manufacturing</i> , 1998 , 9, 39-56	6.7	103
81	STEP-based feature extraction from STEP geometry for Agile Manufacturing. <i>Computers in Industry</i> , 2000 , 41, 3-24	11.6	97
80	Priority-based assignment and routing of a fleet of unmanned combat aerial vehicles. <i>Computers and Operations Research</i> , 2008 , 35, 1813-1828	4.6	80
79	Multi-echelon supply chain network design in agile manufacturing. <i>Omega</i> , 2013 , 41, 969-983	7.2	60
78	Cost characterizations of supply chain delivery performance. <i>International Journal of Production Economics</i> , 2006 , 102, 22-36	9.3	52
77	Simultaneous sensor selection and routing of unmanned aerial vehicles for complex mission plans. <i>Computers and Operations Research</i> , 2012 , 39, 2787-2799	4.6	50
76	Scheduling injection molding operations with multiple resource constraints and sequence dependent setup times and costs. <i>Computers and Operations Research</i> , 2005 , 32, 2987-3005	4.6	41
75	A Data Mining Approach to Forming Generic Bills of Materials in Support of Variant Design Activities. <i>Journal of Computing and Information Science in Engineering</i> , 2004 , 4, 316-328	2.4	38
74	Finite-Size Facility Placement in the Presence of Barriers to Rectilinear Travel. <i>Operations Research</i> , 2002 , 50, 1018-1031	2.3	36
73	New lot-sizing formulations for less nervous production schedules. <i>Computers and Operations Research</i> , 2000 , 27, 1325-1345	4.6	32
72	Modeling of Workflow Congestion and Optimization of Flow Routing in a Manufacturing/Warehouse Facility. <i>Management Science</i> , 2009 , 55, 267-280	3.9	31
71	Placing a finite size facility with a center objective on a rectangular plane with barriers. <i>European Journal of Operational Research</i> , 2007 , 179, 1160-1176	5.6	27
70	Design of distributed information systems for agile manufacturing virtual enterprises using CORBA and STEP standards. <i>Journal of Manufacturing Systems</i> , 2002 , 21, 14-31	9.1	27
69	An integrated formulation of manufacturing cell formation with capacity planning and multiple routings. <i>Annals of Operations Research</i> , 1998 , 77, 79-95	3.2	25

68	Data mining in an engineering design environment: OR applications from graph matching. <i>Computers and Operations Research</i> , 2006 , 33, 3150-3160	4.6	25
67	Migrating from IGES to STEP: one to one translation of IGES drawing to STEP drafting data. <i>Computers in Industry</i> , 2000 , 41, 261-277	11.6	25
66	Contour line construction for a new rectangular facility in an existing layout with rectangular departments. <i>European Journal of Operational Research</i> , 2007 , 180, 149-162	5.6	24
65	Strategic capacity planning in supply chain design for a new market opportunity. <i>International Journal of Production Research</i> , 2004 , 42, 2197-2206	7.8	24
64	A hybrid GA-SA algorithm for just-in-time scheduling of multi-level assemblies. <i>Computers and Industrial Engineering</i> , 1996 , 30, 1047-1060	6.4	22
63	Seed activation scheduling for influence maximization in social networks. <i>Omega</i> , 2018 , 77, 96-114	7.2	20
62	Extracting Assembly Mating Graphs for Assembly Variant Design. <i>Journal of Computing and Information Science in Engineering</i> , 2009 , 9,	2.4	20
61	Controlling a Fleet of Unmanned Aerial Vehicles to Collect Uncertain Information in a Threat Environment. <i>Operations Research</i> , 2017 , 65, 674-692	2.3	19
60	Network and QoS-Based Selection of Complementary Services. <i>IEEE Transactions on Services Computing</i> , 2015 , 8, 79-91	4.8	18
59	GPU-accelerated Hungarian algorithms for the Linear Assignment Problem. <i>Parallel Computing</i> , 2016 , 57, 52-72	1	18
58	Social Network Analysis With Data Fusion. <i>IEEE Transactions on Computational Social Systems</i> , 2016 , 3, 88-99	4.5	17
57	Economics of Managerial Neglect in Supply Chain Delivery Performance. <i>Engineering Economist</i> , 2006 , 51, 1-17	0.8	17
56	Cycle time reduction by improved MRP-based production planning. <i>International Journal of Production Research</i> , 2000 , 38, 4823-4841	7.8	17
55	Multiagent UAV Routing: A Game Theory Analysis With Tight Price of Anarchy Bounds. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 17, 100-116	4.9	17
54	Supply facility and input/output point locations in the presence of barriers. <i>Computers and Operations Research</i> , 2002 , 29, 685-699	4.6	16
53	Locating a 1-Center on a Manhattan Plane with Arbitrarily Shaped Barriers. <i>Annals of Operations Research</i> , 2003 , 123, 157-172	3.2	16
52	An integrated model for site selection and space determination of warehouses. <i>Computers and Operations Research</i> , 2015 , 62, 169-176	4.6	15
51	A subjective evidence model for influence maximization in social networks. <i>Omega</i> , 2016 , 59, 263-278	7.2	15

50	Solving assembly scheduling problems with tree-structure precedence constraints: A Lagrangian relaxation approach. <i>IEEE Transactions on Automation Science and Engineering</i> , 2013 , 10, 757-771	4.9	14
49	A fuzzy graph matching approach in intelligence analysis and maintenance of continuous situational awareness. <i>Information Fusion</i> , 2014 , 18, 43-61	16.7	14
48	Clustering Sensors in Wireless Ad Hoc Networks Operating in a Threat Environment. <i>Operations Research</i> , 2005 , 53, 432-442	2.3	14
47	Collaborative (CPU + GPU) algorithms for triangle counting and truss decomposition on the Minsky architecture: Static graph challenge: Subgraph isomorphism 2017 ,		13
46	Variable capacity sizing and selection of connections in a facility layout. <i>IIE Transactions</i> , 2003 , 35, 49-59		13
45	A map-reduce lagrangian heuristic for multidimensional assignment problems with decomposable costs. <i>Parallel Computing</i> , 2013 , 39, 653-668	1	12
44	Enhancements to high level data fusion using graph matching and state space search. <i>Information Fusion</i> , 2010 , 11, 351-364	16.7	12
43	Planar area location/layout problem in the presence of generalized congested regions with the rectilinear distance metric. <i>IIE Transactions</i> , 2005 , 37, 35-50		12
42	Towards context aware data fusion: Modeling and integration of situationally qualified human observations to manage uncertainty in a hard+soft fusion process. <i>Information Fusion</i> , 2015 , 21, 130-144	16.7	11
41	Designing manufacturing facility layouts to mitigate congestion. <i>IIE Transactions</i> , 2011 , 43, 689-702		11
40	Commentary on facility location in the presence of congested regions with the rectilinear distance metric. <i>Socio-Economic Planning Sciences</i> , 2004 , 38, 291-306	3.7	11
39	Complex assembly variant design in agile manufacturing. Part II: Assembly variant design methodology. <i>IIE Transactions</i> , 2005 , 37, 17-33		11
38	Efficient algorithms for incremental all pairs shortest paths, closeness and betweenness in social network analysis. <i>Social Network Analysis and Mining</i> , 2014 , 4, 1	2.2	10
37	Complex assembly variant design in agile manufacturing. Part I: System architecture and assembly modeling methodology. <i>IIE Transactions</i> , 2005 , 37, 1-15		10
36	The K-Connection Location Problem in a Plane. <i>Annals of Operations Research</i> , 2005 , 136, 193-209	3.2	9
35	Manufacturing cell formation by state-space search. <i>Annals of Operations Research</i> , 1996 , 65, 35-54	3.2	9
34	An incremental graph-partitioning algorithm for entity resolution. <i>Information Fusion</i> , 2019 , 46, 171-183	16.7	8
33	The graph association problem: Mathematical models and a lagrangian heuristic. <i>Naval Research Logistics</i> , 2013 , 60, 251-268	1.5	8

32	Design and implementation of a virtual information system for agile manufacturing. <i>IIE Transactions</i> , 1997 , 29, 839-857		8
31	Batch splitting in an assembly scheduling environment. <i>International Journal of Production Economics</i> , 2007 , 105, 372-384	9.3	8
30	Comparison of gradient estimation techniques for queues with non-identical servers. <i>Computers and Operations Research</i> , 1995 , 22, 715-729	4.6	8
29	Identical parallel machine scheduling to minimise makespan and total weighted completion time: a column generation approach. <i>International Journal of Production Research</i> , 2013 , 51, 7091-7104	7.8	7
28	Facility placement with sub-aisle design in an existing layout. <i>European Journal of Operational Research</i> , 2009 , 197, 154-165	5.6	7
27	Blind GB-PANDAS: A Blind Throughput-Optimal Load Balancing Algorithm for Affinity Scheduling. <i>IEEE/ACM Transactions on Networking</i> , 2020 , 28, 1199-1212	3.8	5
26	A machine learning approach to optimise the usage of recycled material in a remanufacturing environment. <i>International Journal of Production Research</i> , 2010 , 48, 933-955	7.8	5
25	A production order-driven AGV control model with object-oriented implementation. <i>Computer Integrated Manufacturing Systems</i> , 1997 , 10, 35-48		5
24	Dominance rules for the optimal placement of a finite-size facility in an existing layout. <i>Computers and Operations Research</i> , 2014 , 51, 182-189	4.6	4
23	Finding rectilinear least cost paths in the presence of convex polygonal congested regions. <i>Computers and Operations Research</i> , 2009 , 36, 737-754	4.6	4
22	Soft information, dirty graphs and uncertainty representation/processing for situation understanding 2010 ,		3
21	A Spatial Decision Support System Combining GIS and OR Tools to Optimize District Boundaries and Bus Routes for a Suburban School District. <i>OR Insight</i> , 2008 , 21, 3-16		3
20	A review of research in illicit supply-chain networks and new directions to thwart them. <i>IIE Transactions</i> , 1-59	3.3	3
19	Level 2 Reformulation Linearization TechniqueBased Parallel Algorithms for Solving Large Quadratic Assignment Problems on Graphics Processing Unit Clusters. <i>INFORMS Journal on Computing</i> , 2019 , 31, 771-789	2.4	2
18	GPU-accelerated Lagrangian heuristic for multidimensional assignment problems with decomposable costs. <i>Parallel Computing</i> , 2020 , 97, 102666	1	2
17	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 Jyväskylä, P.O. Box 35, Jyväskylä, FI-40014, Finland.View all notes. <i>Optimization Methods and Software</i> , 2017 , 32, 290-311	1.3	2
16	An Efficient Map-Reduce Algorithm for the Incremental Computation of All-Pairs Shortest Paths in Social Networks 2012 ,		2
15	Automated retrieval and ranking of similar parts in agile manufacturing. <i>IIE Transactions</i> , 1997 , 29, 859-876		2

14	A cost-based analysis for risk-averse exploration then commit finite-time bandits. <i>IJSE Transactions</i> , 1-15	3.3	2
13	Risk-Averse Equilibria for Vehicle Navigation in Stochastic Congestion Games. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-17	6.1	2
12	Precedence tree guided search for the efficient identification of multiple situations of interest □ AND/OR graph matching. <i>Information Fusion</i> , 2016 , 27, 240-254	16.7	1
11	A penalty box approach for approximation betweenness and closeness centrality algorithms. <i>Social Network Analysis and Mining</i> , 2016 , 6, 1	2.2	1
10	Simultaneous siting and sizing of distribution centers on a plane. <i>Annals of Operations Research</i> , 2009 , 167, 157-170	3.2	1
9	Bias properties of infinitesimal perturbation analysis for systems with parallel servers. <i>Computers and Operations Research</i> , 1992 , 19, 409-423	4.6	1
8	Prize Collecting Multiagent Orienteering: Price of Anarchy Bounds and Solution Methods. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 1-14	4.9	1
7	Sensor tasking for unmanned aerial vehicles in disaster management missions with limited communications bandwidth. <i>Computers and Industrial Engineering</i> , 2020 , 149, 106754	6.4	0
6	Stochastic Superiority Equilibrium in Game Theory. <i>Decision Analysis</i> , 2021 , 18, 153-168	1.2	0
5	Seed Investment Bounds for Viral Marketing Under Generalized Diffusion and Selection Guidance. <i>IEEE Transactions on Computational Social Systems</i> , 2021 , 8, 546-556	4.5	0
4	Limited-trust equilibria. <i>European Journal of Operational Research</i> , 2021 , 289, 364-380	5.6	0
3	MAVERICK: A Synthetic Murder Mystery Network Dataset to Support Sensemaking Research. <i>Procedia Manufacturing</i> , 2015 , 3, 5036-5043	1.5	
2	Investigating and Improving Network Visualizations Effectiveness at Supporting Human Sensemaking Tasks. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2013 , 57, 235-239	0.4	
1	A Framework to Assess Risk of Illicit Trades Using Bayesian Belief Networks. <i>IFIP Advances in Information and Communication Technology</i> , 2021 , 504-513	0.5	