

# Roel Leus

## 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.

90  
papers

2,756  
citations

24  
h-index

51  
g-index

109  
ext. papers

3,155  
ext. citations

3.1  
avg, IF

5.47  
L-index

#	Paper	IF	Citations
90	Project scheduling under uncertainty: Survey and research potentials. <i>European Journal of Operational Research</i> , <b>2005</b> , 165, 289-306	5.6	583
89	A hybrid scatter search/electromagnetism meta-heuristic for project scheduling. <i>European Journal of Operational Research</i> , <b>2006</b> , 169, 638-653	5.6	202
88	Robust and reactive project scheduling: a review and classification of procedures. <i>International Journal of Production Research</i> , <b>2004</b> , 42, 1599-1620	7.8	193
87	On the merits and pitfalls of critical chain scheduling. <i>Journal of Operations Management</i> , <b>2001</b> , 19, 559-577	5.7	180
86	The use of buffers in project management: The trade-off between stability and makespan. <i>International Journal of Production Economics</i> , <b>2005</b> , 97, 227-240	9.3	138
85	The construction of stable project baseline schedules. <i>European Journal of Operational Research</i> , <b>2004</b> , 156, 550-565	5.6	97
84	The trade-off between stability and makespan in resource-constrained project scheduling. <i>International Journal of Production Research</i> , <b>2006</b> , 44, 215-236	7.8	87
83	Stability and resource allocation in project planning. <i>IIE Transactions</i> , <b>2004</b> , 36, 667-682		83
82	Resource-Constrained Project Scheduling for Timely Project Completion with Stochastic Activity Durations. <i>Production and Operations Management</i> , <b>2009</b> , 18, 459-474	3.6	79
81	A hierarchical approach to multi-project planning under uncertainty. <i>Omega</i> , <b>2007</b> , 35, 563-577	7.2	74
80	New competitive results for the stochastic resource-constrained project scheduling problem: exploring the benefits of pre-processing. <i>Journal of Scheduling</i> , <b>2011</b> , 14, 157-171	1.6	73
79	Robust optimization for resource-constrained project scheduling with uncertain activity durations. <i>Flexible Services and Manufacturing Journal</i> , <b>2013</b> , 25, 175-205	1.8	68
78	Exact algorithms for a generalization of the order acceptance and scheduling problem in a single-machine environment. <i>Computers and Operations Research</i> , <b>2011</b> , 38, 367-378	4.6	68
77	R&D project scheduling when activities may fail. <i>IIE Transactions</i> , <b>2008</b> , 40, 367-384		49
76	The complexity of machine scheduling for stability with a single disrupted job. <i>Operations Research Letters</i> , <b>2005</b> , 33, 151-156	1	45
75	New strategies for stochastic resource-constrained project scheduling. <i>Journal of Scheduling</i> , <b>2018</b> , 21, 349-365	1.6	40
74	Scheduling Markovian PERT networks to maximize the net present value. <i>Operations Research Letters</i> , <b>2010</b> , 38, 51-56	1	38

73	Dynamic order acceptance and capacity planning on a single bottleneck resource. <i>Naval Research Logistics</i> , <b>2007</b> , 54, 874-889	1.5	36
72	Self-imposed time windows in vehicle routing problems. <i>OR Spectrum</i> , <b>2015</b> , 37, 331-352	1.9	35
71	Optimization models for targeted offers in direct marketing: Exact and heuristic algorithms. <i>European Journal of Operational Research</i> , <b>2011</b> , 210, 670-683	5.6	34
70	Project planning with alternative technologies in uncertain environments. <i>European Journal of Operational Research</i> , <b>2015</b> , 242, 465-476	5.6	26
69	Evolutionary multi-objective resource allocation and scheduling in the Chinese navigation satellite system project. <i>European Journal of Operational Research</i> , <b>2016</b> , 251, 662-675	5.6	26
68	Identification and illumination of popular misconceptions about project scheduling and time buffering in a resource-constrained environment. <i>Journal of the Operational Research Society</i> , <b>2005</b> , 56, 102-109	2	26
67	Efficient solutions for Mastermind using genetic algorithms. <i>Computers and Operations Research</i> , <b>2009</b> , 36, 1880-1885	4.6	22
66	Two branch-and-bound algorithms for the robust parallel machine scheduling problem. <i>Computers and Operations Research</i> , <b>2012</b> , 39, 1652-1660	4.6	20
65	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2020</b> , 56, 2450-2461	3.7	20
64	Scheduling for stability in single-machine production systems. <i>Journal of Scheduling</i> , <b>2007</b> , 10, 223-235	1.6	19
63	Dynamic order acceptance and capacity planning in a stochastic multi-project environment with a bottleneck resource. <i>International Journal of Production Research</i> , <b>2018</b> , 56, 459-475	7.8	17
62	Optimal solutions for a dock assignment problem with trailer transportation. <i>Annals of Operations Research</i> , <b>2014</b> , 213, 3-25	3.2	17
61	A two-stage robust model for a reliable p-center facility location problem. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 77, 99-114	4.5	15
60	Note on the paper Resource-constrained project management using enhanced theory of constraint by Wei et al.. <i>International Journal of Project Management</i> , <b>2003</b> , 21, 301-305	7.6	14
59	Proactive-Reactive Project Scheduling Trade-Offs and Procedures. <i>Profiles in Operations Research</i> , <b>2006</b> , 25-51	1	14
58	Exact algorithms for single-machine scheduling with time windows and precedence constraints. <i>Journal of Scheduling</i> , <b>2016</b> , 19, 309-334	1.6	12
57	A combination of flow shop scheduling and the shortest path problem. <i>Journal of Combinatorial Optimization</i> , <b>2015</b> , 29, 36-52	0.9	12
56	Scheduling modular projects on a bottleneck resource. <i>Journal of Scheduling</i> , <b>2014</b> , 17, 67-85	1.6	12

55	An exact algorithm for parallel machine scheduling with conflicts. <i>Journal of Scheduling</i> , <b>2017</b> , 20, 355-372	11
54	Optimization of the annual planning of targeted offers in direct marketing. <i>Journal of the Operational Research Society</i> , <b>2013</b> , 64, 1770-1779	2 11
53	A Branch-and-Price Algorithm for Parallel Machine Scheduling Using ZDDs and Generic Branching. <i>INFORMS Journal on Computing</i> , <b>2018</b> , 30, 768-782	2.4 11
52	Resource allocation by means of project networks: Dominance results. <i>Networks</i> , <b>2011</b> , 58, 50-58	1.6 10
51	Complexity Results and Exact Algorithms for Robust Knapsack Problems. <i>Journal of Optimization Theory and Applications</i> , <b>2014</b> , 161, 533-552	1.6 9
50	Sequential testing policies for complex systems under precedence constraints. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 611-620	7.8 9
49	Precedence theorems and dynamic programming for the single-machine weighted tardiness problem. <i>European Journal of Operational Research</i> , <b>2019</b> , 272, 43-49	5.6 9
48	Practical solutions for a dock assignment problem with trailer transportation. <i>European Journal of Operational Research</i> , <b>2015</b> , 246, 787-799	5.6 8
47	Resource loading with time windows. <i>European Journal of Operational Research</i> , <b>2015</b> , 244, 404-416	5.6 8
46	Robust maximum weighted independent-set problems on interval graphs. <i>Optimization Letters</i> , <b>2014</b> , 8, 227-235	1.1 8
45	Single-pass and approximate dynamic-programming algorithms for order acceptance and capacity planning. <i>Journal of Heuristics</i> , <b>2010</b> , 16, 189-209	1.9 8
44	Scheduling Markovian PERT networks to maximize the net present value: New results. <i>Operations Research Letters</i> , <b>2018</b> , 46, 240-244	1 7
43	The generation of stable project plans. <i>4or</i> , <b>2004</b> , 2, 251-254	1.4 7
42	The robust machine availability problem $\square$ bin packing under uncertainty. <i>IIE Transactions</i> , <b>2018</b> , 50, 997-1012	3.3 7
41	Extending the production dice game. <i>International Journal of Operations and Production Management</i> , <b>2012</b> , 32, 1460-1472	6.8 6
40	Project scheduling for maximum NPV with variable activity durations and uncertain activity outcomes <b>2008</b> ,	6
39	Meta-heuristics for stable scheduling on a single machine. <i>Computers and Operations Research</i> , <b>2008</b> , 35, 2175-2192	4.6 6
38	Fixed Interval Scheduling of Multiple Earth Observation Satellites with Multiple Observations <b>2018</b> ,	6

37	Test sequencing for sequential system diagnosis with precedence constraints and imperfect tests. <i>Decision Support Systems</i> , <b>2017</b> , 103, 104-116	5.6	5
36	Resource allocation by means of project networks: Complexity results. <i>Networks</i> , <b>2011</b> , 58, 59-67	1.6	5
35	Robust Optimization for the Resource-Constrained Project Scheduling Problem with Duration Uncertainty <b>2015</b> , 875-908		4
34	Minimizing makespan on a single machine with release dates and inventory constraints. <i>European Journal of Operational Research</i> , <b>2020</b> , 286, 115-128	5.6	4
33	Minimum-cost diagnostic strategies for k-out-of-n systems with imperfect tests. <i>Discrete Applied Mathematics</i> , <b>2017</b> , 222, 185-196	1	3
32	New results on the coordination of transportation and batching scheduling. <i>Applied Mathematical Modelling</i> , <b>2016</b> , 40, 4016-4022	4.5	3
31	Coloring Graphs Using Two Colors While Avoiding Monochromatic Cycles. <i>INFORMS Journal on Computing</i> , <b>2012</b> , 24, 485-499	2.4	3
30	Robust Optimization for Resource-Constrained Project Scheduling with Uncertain Activity Durations. <i>SSRN Electronic Journal</i> , <b>2010</b> ,	1	2
29	Project scheduling with alternative technologies: Incorporating varying activity duration variability <b>2010</b> ,		2
28	Order Acceptance and Scheduling in a Single-Machine Environment: Exact and Heuristic Algorithms. <i>SSRN Electronic Journal</i> , <b>2009</b> ,	1	2
27	<b>2011</b> ,		2
26	R&D project planning with multiple trials in uncertain environments <b>2009</b> ,		2
25	A Novel Class of Scheduling Policies for the Stochastic Resource-Constrained Project Scheduling Problem. <i>SSRN Electronic Journal</i> , <b>2008</b> ,	1	2
24	Resource-Constrained Project Scheduling for Timely Project Completion with Stochastic Activity Durations. <i>SSRN Electronic Journal</i> ,	1	2
23	Project Scheduling with Modular Project Completion on a Bottleneck Resource. <i>SSRN Electronic Journal</i> ,	1	2
22	Dynamic Order Acceptance and Capacity Planning within a Multi-Project Environment. <i>SSRN Electronic Journal</i> ,	1	2
21	Exact Algorithms for Coloring Graphs While Avoiding Monochromatic Cycles. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 229-242	0.9	2
20	Sequential testing of n-out-of-n systems: Precedence theorems and exact methods. <i>European Journal of Operational Research</i> , <b>2019</b> , 274, 876-885	5.6	2

19	A CTMDP-Based Exact Method for RCPSP with Uncertain Activity Durations and Rework. <i>Operations Research Proceedings: Papers of the Annual Meeting = Vorträge Der Jahrestagung / DGOR, 2018</i> , 559-565	0.1	2
18	Proactive-reactive Project Scheduling	203-211	2
17	Scheduling a single parallel-batching machine with non-identical job sizes and incompatible job families. <i>European Journal of Operational Research</i> , <b>2022</b> ,	5.6	2
16	A fast greedy heuristic for scheduling modular projects. <i>Journal of Heuristics</i> , <b>2015</b> , 21, 47-72	1.9	1
15	Timely exposure of a secret project: Which activities to monitor?. <i>Naval Research Logistics</i> , <b>2019</b> , 66, 451-468	1.5	1
14	New benchmark results for the stochastic resource-constrained project scheduling problem <b>2015</b> ,		1
13	Models for the Optimization of Promotion Campaigns: Exact and Heuristic Algorithms. <i>SSRN Electronic Journal</i> , <b>2008</b> ,	1	1
12	Complexity Results and Exact Algorithms for Robust Knapsack Problems. <i>SSRN Electronic Journal</i> ,	1	1
11	An Investigation of Resource-Allocation Decisions by Means of Project Networks. <i>SSRN Electronic Journal</i> ,	1	1
10	Coloring Graphs While Avoiding Monochromatic Cycles. <i>SSRN Electronic Journal</i> ,	1	1
9	Polyhedral Results and Branch-and-Cut for the Resource Loading Problem. <i>INFORMS Journal on Computing</i> , <b>2021</b> , 33, 105-119	2.4	1
8	A Note on Discrete Sequential Search with Group Activities. <i>Decision Sciences</i> , <b>2013</b> , 44, 395-401	3.7	0
7	Rolling weight-matching methods for the inter-satellite link assignment in global navigation satellite systems. <i>GPS Solutions</i> , <b>2022</b> , 26, 1	4.4	0
6	Aircraft landing planning under uncertain conditions. <i>Journal of Scheduling</i> ,	1.6	0
5	Stochastic and fuzzy workload plans in project tactical planning under uncertainty. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 616-623		
4	Scheduling hybrid flow shops with time windows. <i>Journal of Heuristics</i> , <b>2021</b> , 27, 133-158	1.9	
3	Time-critical testing and search problems. <i>European Journal of Operational Research</i> , <b>2022</b> , 296, 440-452	5.6	
2	Exact algorithms for budgeted prize-collecting covering subgraph problems. <i>Computers and Operations Research</i> , <b>2022</b> , 144, 105798	4.6	

- 1 Resource Allocation for the Construction of Robust Project Schedules 171-197