Rubn Ruiz Garca

List of Publications by Year in Descending Order

122 papers	7,165 citations	43 h-index	84 g-index
133 ext. papers	8,493 ext. citations	5.1 avg, IF	6.69 L-index

#	Paper	IF	Citations
122	Automatic generation of iterated greedy algorithms for the non-permutation flow shop scheduling problem with total completion time minimization. *Computers and Industrial Engineering*, **2022**, 163, 107843	6.4	2
121	A referenced iterated greedy algorithm for the distributed assembly mixed no-idle permutation flowshop scheduling problem with the total tardiness criterion. *Knowledge-Based Systems*, **2022**, 239, 108036	7.3	3
120	Group Scheduling With Nonperiodical Maintenance and Deteriorating Effects. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 2860-2872	7.3	3
119	Bi-objective parallel machine scheduling with additional resources during setups. *European Journal of Operational Research*, **2021**, 292, 443-455	5.6	10
118	MapReduce task scheduling in heterogeneous geo-distributed data centers. *IEEE Transactions on Services Computing*, **2021**, 1-1	4.8	0
117	Multi-Queue Request Scheduling for Profit Maximization in IaaS Clouds. *IEEE Transactions on Parallel and Distributed Systems*, **2021**, 32, 2838-2851	3.7	2
116	A Survey on Sparse Learning Models for Feature Selection. *IEEE Transactions on Cybernetics*, **2020**,	10.2	10
115	Energy-aware cloud workflow applications scheduling with geo-distributed data. *IEEE Transactions on Services Computing*, **2020**, 1-1	4.8	9
114	Allocating MapReduce workflows with deadlines to heterogeneous servers in a cloud data center. *Service Oriented Computing and Applications*, **2020**, 14, 101-118	1.6	1
113	. *IEEE Transactions on Parallel and Distributed Systems*, **2020**, 31, 2819-2833	3.7	7
112	Benders decomposition for the mixed no-idle permutation flowshop scheduling problem. *Journal of Scheduling*, **2020**, 23, 513-523	1.6	5
111	Ergonomic risk and cycle time minimization for the U-shaped worker assignment assembly line balancing problem: A multi-objective approach. *Computers and Operations Research*, **2020**, 118, 104905	4.6	28
110	Mass casualty management in disaster scene: A systematic review of OR&MS research in humanitarian operations. *European Journal of Operational Research*, **2020**, 287, 787-819	5.6	45
109	Energy Utilization Task Scheduling for MapReduce in Heterogeneous Clusters. *IEEE Transactions on Services Computing*, **2020**, 1-1	4.8	6
108	Minimizing crane times in pre-marshalling problems. *Transportation Research, Part E: Logistics and Transportation Review*, **2020**, 137, 101917	9	5
107	A hybrid fault-tolerant scheduling for deadline-constrained tasks in Cloud systems. *IEEE Transactions on Services Computing*, **2020**, 1-1	4.8	4
106	. *IEEE Transactions on Computers*, **2020**, 69, 563-576	2.5	6

105	Simulation-Based Analysis on Operational Control of Batch Processors in Wafer Fabrication. *Applied Sciences (Switzerland)*, **2020**, 10, 5936	2.6	0
104	Resource Renting for Periodical Cloud Workflow Applications. *IEEE Transactions on Services Computing*, **2020**, 13, 130-143	4.8	8
103	Automatic Algorithm Design for Hybrid Flowshop Scheduling Problems. *European Journal of Operational Research*, **2020**, 282, 835-845	5.6	9
102	. *IEEE Transactions on Cloud Computing*, **2019**, 1-1	3.3	2
101	A branch and bound approach for large pre-marshalling problems. *European Journal of Operational Research*, **2019**, 278, 211-225	5.6	11
100	OR models in urban service facility location: A critical review of applications and future developments. *European Journal of Operational Research*, **2019**, 276, 1-27	5.6	47
99	Weighted General Group Lasso for Gene Selection in Cancer Classification. *IEEE Transactions on Cybernetics*, **2019**, 49, 2860-2873	10.2	21
98	Reformulations and an exact algorithm for unrelated parallel machine scheduling problems with setup times. *Computers and Operations Research*, **2019**, 101, 173-182	4.6	47
97	Integer programming models for the pre-marshalling problem. *European Journal of Operational Research*, **2019**, 274, 142-154	5.6	13
96	Iterated Greedy methods for the distributed permutation flowshop scheduling problem. *Omega*, **2019**, 83, 213-222	7.2	160
95	Resource Provisioning for Task-Batch Based Workflows with Deadlines in Public Clouds. *IEEE Transactions on Cloud Computing*, **2019**, 7, 814-826	3.3	9
94	Cloud Workflow Scheduling with Deadlines and Time Slot Availability. *IEEE Transactions on Services Computing*, **2018**, 11, 329-340	4.8	14
93	An iterated greedy heuristic for no-wait flow shops with sequence dependent setup times, learning and forgetting effects. *Information Sciences*, **2018**, 453, 408-425	7.7	29
92	Scheduling Stochastic Multi-Stage Jobs to Elastic Hybrid Cloud Resources. *IEEE Transactions on Parallel and Distributed Systems*, **2018**, 29, 1401-1415	3.7	26
91	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 743-754	7.3	7
90	An Iterated Greedy Heuristic for Mixed No-Wait Flowshop Problems. *IEEE Transactions on Cybernetics*, **2018**, 48, 1553-1566	10.2	17
89	Price forecasting for spot instances in Cloud computing. *Future Generation Computer Systems*, **2018**, 79, 38-53	7.5	10
88	Idle block based methods for cloud workflow scheduling with preemptive and non-preemptive tasks. *Future Generation Computer Systems*, **2018**, 89, 659-669	7.5	4

87	Iterated Greedy **2018**, 547-577		4
86	Iterated Local Search **2018**, 579-605		8
85	Iterated Greedy **2018**, 1-31		
84	A Fast Algorithm for Finding the Bi-objective Shortest Path in Complicated Networks **2018**,		1
83	Scheduling Heuristics **2018**, 1197-1220		
82	An Exact Algorithm for the Shortest Path Problem With Position-Based Learning Effects. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2017**, 47, 3037-3049	7.3	11
81	Models and matheuristics for the unrelated parallel machine scheduling problem with additional resources. *European Journal of Operational Research*, **2017**, 260, 482-493	5.6	72
80	A delay-based dynamic scheduling algorithm for bag-of-task workflows with stochastic task execution times in clouds. *Future Generation Computer Systems*, **2017**, 71, 57-72	7.5	43
79	An iterated greedy heuristic for a market segmentation problem with multiple attributes. *European Journal of Operational Research*, **2017**, 261, 75-87	5.6	17
78	Cloud workflow scheduling with on-demand and spot block instances **2017**,		2
77	An effective heuristic for project scheduling with resource availability cost. *European Journal of Operational Research*, **2017**, 257, 746-762	5.6	18
76	A new vision of approximate methods for the permutation flowshop to minimise makespan: State-of-the-art and computational evaluation. *European Journal of Operational Research*, **2017**, 257, 707-721	5.6	98
75	Matheuristics for the irregular bin packing problem with free rotations. *European Journal of Operational Research*, **2017**, 258, 440-455	5.6	34
74	Iterated search methods for earliness and tardiness minimization in hybrid flowshops with due windows. *Computers and Operations Research*, **2017**, 80, 50-60	4.6	46
73	Iterated Local Search **2017**, 1-27		2
72	Heuristics for periodical batch job scheduling in a MapReduce computing framework. *Information Sciences*, **2016**, 326, 119-133	7.7	22
71	Scheduling Stochastic Multi-stage Jobs on Elastic Computing Services in Hybrid Clouds **2016**,		6
70	Hybrid Resource Provisioning for Workflow Scheduling in Cloud Computing. *Lecture Notes in Computer Science*, **2016**, 34-46	0.9	1

69	Heuristics and metaheuristics for the distributed assembly permutation flowshop scheduling problem with sequence dependent setup times. *International Journal of Production Economics*, **2015** , 169, 76-88	9.3	93
68	New hard benchmark for flowshop scheduling problems minimising makespan. *European Journal of Operational Research*, **2015**, 240, 666-677	5.6	88
67	Rescheduling flowshops under simultaneous disruptions **2015**,		3
66	Heuristics for a Distributed Parallel Machine Assembly Scheduling Problem with eligibility constraints **2015**,		6
65	Simple greedy methods for scheduling hybrid flowshops with due date windows **2015**,		1
64	Novas regras de prioridade para programa□ em flexible flow line com tempos de setup expl□itos. *Production*, **2015**, 25, 779-790	1.3	1
63	The Distributed Assembly Parallel Machine Scheduling Problem with eligibility constraints.. *International Journal of Production Management and Engineering*, **2015**, 3, 13	0.4	8
62	Scheduling Heuristics **2015**, 1-24		1
61	Manufacturing Scheduling Systems **2014**,		41
60	An effective iterated greedy algorithm for the mixed no-idle permutation flowshop scheduling problem. *Omega*, **2014**, 44, 41-50	7.2	115
59	Cyclic scheduling of perishable products in parallel machine with release dates, due dates and deadlines. *International Journal of Production Economics*, **2014**, 156, 1-12	9.3	14
58	A scatter search algorithm for the distributed permutation flowshop scheduling problem. *European Journal of Operational Research*, **2014**, 239, 323-334	5.6	161
57	Simple constructive heuristics for the Distributed Assembly Permutation Flowshop Scheduling Problem with sequence dependent setup times **2014**,		3
56	Guidelines for Developing Scheduling Systems **2014**, 353-369		
55	Two Simple Constructive algorithms for the Distributed Assembly Permutation Flowshop Scheduling Problem. *Lecture Notes in Management and Industrial Engineering*, **2014**, 139-145	0.3	4
54	Exact Algorithms **2014**, 191-216		
53	Scheduling Constraints **2014**, 75-99		
52	Approximate Algorithms **2014**, 217-259		

51	Overview of Scheduling Tools **2014**, 291-317		1
50	The Distributed Assembly Permutation Flowshop Scheduling Problem. *International Journal of Production Research*, **2013**, 51, 5292-5308	7.8	97
49	Flow shop rescheduling under different types of disruption. *International Journal of Production Research*, **2013**, 51, 780-797	7.8	79
48	Multi-objective sequence dependent setup times permutation flowshop: A new algorithm and a comprehensive study. *European Journal of Operational Research*, **2013**, 227, 301-313	5.6	97
47	A comprehensive review and evaluation of permutation flowshop heuristics to minimize flowtime. *Computers and Operations Research*, **2013**, 40, 117-128	4.6	78
46	The effect of the asymmetry of road transportation networks on the traveling salesman problem. *Computers and Operations Research*, **2012**, 39, 1566-1576	4.6	31
45	Scheduling unrelated parallel machines with optional machines and jobs selection. *Computers and Operations Research*, **2012**, 39, 1745-1753	4.6	29
44	A study on the effect of the asymmetry on real capacitated vehicle routing problems. *Computers and Operations Research*, **2012**, 39, 2142-2151	4.6	10
43	Local search methods for the flowshop scheduling problem with flowtime minimization. *European Journal of Operational Research*, **2012**, 222, 31-43	5.6	90
42	An estimation of distribution algorithm for lot-streaming flow shop problems with setup times. *Omega*, **2012**, 40, 166-180	7.2	110
41	Vehicle routing problem with uncertain demands: An advanced particle swarm algorithm. *Computers and Industrial Engineering*, **2012**, 62, 306-317	6.4	69
40	Guidelines for the deployment and implementation of manufacturing scheduling systems. *International Journal of Production Research*, **2012**, 50, 1799-1812	7.8	35
39	Scheduling Unrelated Parallel Machines with Sequence Dependent Setup Times and Weighted Earliness□Tardiness Minimization. *Springer Optimization and Its Applications*, **2012**, 67-90	0.4	2
38	Scheduling unrelated parallel machines with resource-assignable sequence-dependent setup times. *International Journal of Advanced Manufacturing Technology*, **2011**, 57, 777-794	3.2	22
37	Size-reduction heuristics for the unrelated parallel machines scheduling problem. *Computers and Operations Research*, **2011**, 38, 301-309	4.6	43
36	Restarted Iterated Pareto Greedy algorithm for multi-objective flowshop scheduling problems. *Computers and Operations Research*, **2011**, 38, 1521-1533	4.6	71
35	A genetic algorithm for the unrelated parallel machine scheduling problem with sequence dependent setup times. *European Journal of Operational Research*, **2011**, 211, 612-622	5.6	242
34	Genetic algorithms with different representation schemes for complex hybrid flexible flow line problems. *International Journal of Metaheuristics*, **2010**, 1, 30	0.8	31

33	Genetic algorithms with path relinking for the minimum tardiness permutation flowshop problem?. *Omega*, **2010**, 38, 57-67	7.2	115
32	The hybrid flow shop scheduling problem. *European Journal of Operational Research*, **2010**, 205, 1-18	5.6	516
31	Architecture of manufacturing scheduling systems: Literature review and an integrated proposal. *European Journal of Operational Research*, **2010**, 205, 237-246	5.6	51
30	Iterated greedy local search methods for unrelated parallel machine scheduling. *European Journal of Operational Research*, **2010**, 207, 55-69	5.6	127
29	Shifting representation search for hybrid flexible flowline problems. *European Journal of Operational Research*, **2010**, 207, 1086-1095	5.6	62
28	The SR-GCWS hybrid algorithm for solving the capacitated vehicle routing problem. *Applied Soft Computing Journal*, **2010**, 10, 215-224	7.5	64
27	Algorithms for a realistic variant of flowshop scheduling. *Computers and Operations Research*, **2010**, 37, 236-246	4.6	68
26	The distributed permutation flowshop scheduling problem. *Computers and Operations Research*, **2010**, 37, 754-768	4.6	254
25	New high performing heuristics for minimizing makespan in permutation flowshops. *Omega*, **2009**, 37, 331-345	7.2	108
24	Minimizing the bicriteria of makespan and maximum tardiness with an upper bound on maximum tardiness. *Computers and Operations Research*, **2009**, 36, 1268-1283	4.6	13
23	Cooperative metaheuristics for the permutation flowshop scheduling problem. *European Journal of Operational Research*, **2009**, 193, 365-376	5.6	45
22	Using Oriented Random Search to Provide a Set of Alternative Solutions to the Capacitated Vehicle Routing Problem **2009**, 331-345		20
21	New heuristics for no-wait flow shops with a linear combination of makespan and maximum lateness. *International Journal of Production Research*, **2009**, 47, 5717-5738	7.8	25
20	Scheduling in Flowshops with No-Idle Machines. *Studies in Computational Intelligence*, **2009**, 21-51	0.8	19
19	SR-1: A simulation-based algorithm for the Capacitated Vehicle Routing Problem **2008**,		24
18	A Review and Evaluation of Multiobjective Algorithms for the Flowshop Scheduling Problem. *INFORMS Journal on Computing*, **2008**, 20, 451-471	2.4	127
17	Modeling realistic hybrid flexible flowshop scheduling problems. *Computers and Operations Research*, **2008**, 35, 1151-1175	4.6	119
16	Minimising total tardiness in the m-machine flowshop problem: A review and evaluation of heuristics and metaheuristics. *Computers and Operations Research*, **2008**, 35, 1350-1373	4.6	113

15	A Constructive Genetic Algorithm for permutation flowshop scheduling. *Computers and Industrial Engineering*, **2008**, 55, 195-207	6.4	39
14	An Iterated Greedy heuristic for the sequence dependent setup times flowshop problem with makespan and weighted tardiness objectives. *European Journal of Operational Research*, **2008**, 187, 1143-1159	5.6	289
13	Considering scheduling and preventive maintenance in the flowshop sequencing problem. *Computers and Operations Research*, **2007**, 34, 3314-3330	4.6	149
12	No-wait flowshop with separate setup times to minimize maximum lateness. *International Journal of Advanced Manufacturing Technology*, **2007**, 35, 551-565	3.2	32
11	Some effective heuristics for no-wait flowshops with setup times to minimize total completion time. *Annals of Operations Research*, **2007**, 156, 143-171	3.2	29
10	A simple and effective iterated greedy algorithm for the permutation flowshop scheduling problem. *European Journal of Operational Research*, **2007**, 177, 2033-2049	5.6	692
9	Local Search in Complex Scheduling Problems **2007**, 202-206		8
8	Two new robust genetic algorithms for the flowshop scheduling problem. *Omega*, **2006**, 34, 461-476	7.2	268
7	Operational planning and control of semiconductor wafer production. *Production Planning and Control*, **2006**, 17, 639-647	4.3	48
6	A genetic algorithm for hybrid flowshops with sequence dependent setup times and machine eligibility. *European Journal of Operational Research*, **2006**, 169, 781-800	5.6	300
5	Solving the flowshop scheduling problem with sequence dependent setup times using advanced metaheuristics. *European Journal of Operational Research*, **2005**, 165, 34-54	5.6	146
4	A comprehensive review and evaluation of permutation flowshop heuristics. *European Journal of Operational Research*, **2005**, 165, 479-494	5.6	415
3	A decision support system for a real vehicle routing problem. *European Journal of Operational Research*, **2004**, 153, 593-606	5.6	64
2	Solving the Multi-Mode Resource-Constrained Project Scheduling Problem with genetic algorithms. *Journal of the Operational Research Society*, **2003**, 54, 614-626	2	165
1	Metaphor-based metaheuristics, a call for action: the elephant in the room. *Swarm Intelligence*,1	3	4