

# Jose M. Framinan

## List of Publications by Year in descending order

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140  
papers

5,290  
citations

71102

41  
h-index

98798

67  
g-index

145  
all docs

145  
docs citations

145  
times ranked

2342  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review and classification of hybrid flow shop scheduling problems from a production system and a solutions procedure perspective. <i>Computers and Operations Research</i> , 2010, 37, 1439-1454.	4.0	355
2	A review and classification of heuristics for permutation flow-shop scheduling with makespan objective. <i>Journal of the Operational Research Society</i> , 2004, 55, 1243-1255.	3.4	229
3	A bounded-search iterated greedy algorithm for the distributed permutation flowshop scheduling problem. <i>International Journal of Production Research</i> , 2015, 53, 1111-1123.	7.5	170
4	An efficient constructive heuristic for flowtime minimisation in permutation flow shops. <i>Omega</i> , 2003, 31, 311-317.	5.9	165
5	A new vision of approximate methods for the permutation flowshop to minimise makespan: State-of-the-art and computational evaluation. <i>European Journal of Operational Research</i> , 2017, 257, 707-721.	5.7	155
6	Different initial sequences for the heuristic of Nawaz, Enscore and Ham to minimize makespan, idletime or flowtime in the static permutation flowshop sequencing problem. <i>International Journal of Production Research</i> , 2003, 41, 121-148.	7.5	134
7	New hard benchmark for flowshop scheduling problems minimising makespan. <i>European Journal of Operational Research</i> , 2015, 240, 666-677.	5.7	125
8	A common framework and taxonomy for multicriteria scheduling problems with interfering and competing jobs: Multi-agent scheduling problems. <i>European Journal of Operational Research</i> , 2014, 235, 1-16.	5.7	123
9	The distributed permutation flow shop to minimise the total flowtime. <i>Computers and Industrial Engineering</i> , 2018, 118, 464-477.	6.3	122
10	Approximative procedures for no-wait job shop scheduling. <i>Operations Research Letters</i> , 2003, 31, 308-318.	0.7	121
11	The CONWIP production control system: Review and research issues. <i>Production Planning and Control</i> , 2003, 14, 255-265.	8.8	121
12	On insertion tie-breaking rules in heuristics for the permutation flowshop scheduling problem. <i>Computers and Operations Research</i> , 2014, 45, 60-67.	4.0	119
13	Comparison of heuristics for flowtime minimisation in permutation flowshops. <i>Computers and Operations Research</i> , 2005, 32, 1237-1254.	4.0	107
14	Efficient heuristics for flowshop sequencing with the objectives of makespan and flowtime minimisation. <i>European Journal of Operational Research</i> , 2002, 141, 559-569.	5.7	106
15	Closed-loop supply chains: What reverse logistics factors influence performance?. <i>International Journal of Production Economics</i> , 2016, 175, 35-49.	8.9	96
16	On the Bullwhip Avoidance Phase: The Synchronised Supply Chain. <i>European Journal of Operational Research</i> , 2012, 221, 49-63.	5.7	90
17	Deterministic assembly scheduling problems: A review and classification of concurrent-type scheduling models and solution procedures. <i>European Journal of Operational Research</i> , 2019, 273, 401-417.	5.7	86
18	Metrics for bullwhip effect analysis. <i>Journal of the Operational Research Society</i> , 2013, 64, 1-16.	3.4	81

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19	On bullwhip-limiting strategies in divergent supply chain networks. <i>Computers and Industrial Engineering</i> , 2014, 73, 85-95.	6.3	70
20	NEH-based heuristics for the permutation flowshop scheduling problem to minimise total tardiness. <i>Computers and Operations Research</i> , 2015, 60, 27-36.	4.0	70
21	Architecture of manufacturing scheduling systems: Literature review and an integrated proposal. <i>European Journal of Operational Research</i> , 2010, 205, 237-246.	5.7	66
22	Total tardiness minimization in permutation flow shops: a simple approach based on a variable greedy algorithm. <i>International Journal of Production Research</i> , 2008, 46, 6479-6498.	7.5	63
23	Integrated operating room planning and scheduling problem with assistant surgeon dependent surgery durations. <i>Computers and Industrial Engineering</i> , 2015, 82, 8-20.	6.3	60
24	The effect of Inventory Record Inaccuracy in Information Exchange Supply Chains. <i>European Journal of Operational Research</i> , 2015, 243, 120-129.	5.7	59
25	A genetic algorithm for scheduling open shops with sequence-dependent setup times. <i>Computers and Operations Research</i> , 2020, 113, 104793.	4.0	58
26	Manufacturing Scheduling Systems. , 2014, , .		56
27	Evaluating the performance for makespan minimisation in no-wait flowshop sequencing. <i>Journal of Materials Processing Technology</i> , 2008, 197, 1-9.	6.3	54
28	Efficient heuristics for the hybrid flow shop scheduling problem with missing operations. <i>Computers and Industrial Engineering</i> , 2018, 115, 88-99.	6.3	53
29	Iterated-greedy-based algorithms with beam search initialization for the permutation flowshop to minimise total tardiness. <i>Expert Systems With Applications</i> , 2018, 94, 58-69.	7.6	53
30	A simheuristic algorithm to set up starting times in the stochastic parallel flowshop problem. <i>Simulation Modelling Practice and Theory</i> , 2018, 86, 55-71.	3.8	53
31	Using real-time information to reschedule jobs in a flowshop with variable processing times. <i>Computers and Industrial Engineering</i> , 2019, 129, 113-125.	6.3	52
32	Efficiency of the solution representations for the hybrid flow shop scheduling problem with makespan objective. <i>Computers and Operations Research</i> , 2019, 109, 77-88.	4.0	52
33	An enhanced timetabling procedure for the no-wait job shop problem: a complete local search approach. <i>Computers and Operations Research</i> , 2006, 33, 1200-1213.	4.0	50
34	Serial vs. divergent supply chain networks: a comparative analysis of the bullwhip effect. <i>International Journal of Production Research</i> , 2014, 52, 2194-2210.	7.5	49
35	The impact of the supply chain structure on bullwhip effect. <i>Applied Mathematical Modelling</i> , 2015, 39, 7309-7325.	4.2	49
36	Information sharing in supply chains with heterogeneous retailers. <i>Omega</i> , 2018, 79, 116-132.	5.9	49

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37	A multi-objective iterated greedy search for flowshop scheduling with makespan and flowtime criteria. <i>OR Spectrum</i> , 2008, 30, 787-804.	3.4	48
38	Token-based pull production control systems: an introductory overview. <i>Journal of Intelligent Manufacturing</i> , 2012, 23, 5-22.	7.3	48
39	An efficient heuristic for total flowtime minimisation in no-wait flowshops. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 46, 1049-1057.	3.0	46
40	Dynamic card controlling in a Conwip system. <i>International Journal of Production Economics</i> , 2006, 99, 102-116.	8.9	45
41	Inventory policies and information sharing in multi-echelon supply chains. <i>Production Planning and Control</i> , 2011, 22, 649-659.	8.8	45
42	A Decision Support System for Operating Room scheduling. <i>Computers and Industrial Engineering</i> , 2015, 88, 430-443.	6.3	45
43	On the dynamics of closed-loop supply chains with capacity constraints. <i>Computers and Industrial Engineering</i> , 2019, 128, 91-103.	6.3	43
44	A new set of high-performing heuristics to minimise flowtime in permutation flowshops. <i>Computers and Operations Research</i> , 2015, 53, 68-80.	4.0	42
45	Available-to-promise (ATP) systems: a classification and framework for analysis. <i>International Journal of Production Research</i> , 2010, 48, 3079-3103.	7.5	40
46	New approximate algorithms for the customer order scheduling problem with total completion time objective. <i>Computers and Operations Research</i> , 2017, 78, 181-192.	4.0	40
47	On the dynamics of closed-loop supply chains under remanufacturing lead time variability. <i>Omega</i> , 2020, 97, 102106.	5.9	39
48	Quantifying the Bullwhip Effect in closed-loop supply chains: The interplay of information transparencies, return rates, and lead times. <i>International Journal of Production Economics</i> , 2020, 230, 107798.	8.9	38
49	On heuristic solutions for the stochastic flowshop scheduling problem. <i>European Journal of Operational Research</i> , 2015, 246, 413-420.	5.7	37
50	New efficient constructive heuristics for the hybrid flowshop to minimise makespan: A computational evaluation of heuristics. <i>Expert Systems With Applications</i> , 2018, 114, 345-356.	7.6	37
51	The 2-stage assembly flowshop scheduling problem with total completion time: Efficient constructive heuristic and metaheuristic. <i>Computers and Operations Research</i> , 2017, 88, 237-246.	4.0	36
52	Guidelines for the deployment and implementation of manufacturing scheduling systems. <i>International Journal of Production Research</i> , 2012, 50, 1799-1812.	7.5	35
53	OVAP: A strategy to implement partial information sharing among supply chain retailers. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2018, 110, 122-136.	7.4	35
54	A computational evaluation of constructive and improvement heuristics for the blocking flow shop to minimise total flowtime. <i>Expert Systems With Applications</i> , 2016, 61, 290-301.	7.6	34

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55	A heuristic for scheduling a permutation flowshop with makespan objective subject to maximum tardiness. <i>International Journal of Production Economics</i> , 2006, 99, 28-40.	8.9	33
56	Capacity restrictions and supply chain performance: Modelling and analysing load-dependent lead times. <i>International Journal of Production Economics</i> , 2018, 204, 264-277.	8.9	33
57	Generalised accelerations for insertion-based heuristics in permutation flowshop scheduling. <i>European Journal of Operational Research</i> , 2020, 282, 858-872.	5.7	33
58	Inventory record inaccuracy – The impact of structural complexity and lead time variability. <i>Omega</i> , 2017, 68, 123-138.	5.9	32
59	Order scheduling with tardiness objective: Improved approximate solutions. <i>European Journal of Operational Research</i> , 2018, 266, 840-850.	5.7	31
60	Constructive heuristics for the unrelated parallel machines scheduling problem with machine eligibility and setup times. <i>Computers and Industrial Engineering</i> , 2019, 131, 131-145.	6.3	31
61	Solving the hybrid flow shop scheduling problem with limited human resource constraint. <i>Computers and Industrial Engineering</i> , 2020, 146, 106545.	6.3	31
62	Single machine scheduling with periodic machine availability. <i>Computers and Industrial Engineering</i> , 2018, 123, 180-188.	6.3	30
63	On returns and network configuration in supply chain dynamics. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2015, 73, 152-167.	7.4	29
64	A stochastic approach for solving the operating room scheduling problem. <i>Flexible Services and Manufacturing Journal</i> , 2018, 30, 224-251.	3.4	29
65	Input control and dispatching rules in a dynamic CONWIP flow-shop. <i>International Journal of Production Research</i> , 2000, 38, 4589-4598.	7.5	28
66	A best-of-breed iterated greedy for the permutation flowshop scheduling problem with makespan objective. <i>Computers and Operations Research</i> , 2019, 112, 104767.	4.0	28
67	An IT-enabled supply chain model: a simulation study. <i>International Journal of Systems Science</i> , 2014, 45, 2327-2341.	5.5	27
68	New heuristics for planning operating rooms. <i>Computers and Industrial Engineering</i> , 2015, 90, 429-443.	6.3	27
69	A beam-search-based constructive heuristic for the PFSP to minimise total flowtime. <i>Computers and Operations Research</i> , 2017, 81, 167-177.	4.0	27
70	Remanufacturing configuration in complex supply chains. <i>Omega</i> , 2021, 101, 102268.	5.9	27
71	Efficient non-population-based algorithms for the permutation flowshop scheduling problem with makespan minimisation subject to a maximum tardiness. <i>Computers and Operations Research</i> , 2015, 64, 86-96.	4.0	22
72	Scheduling permutation flowshops with initial availability constraint: Analysis of solutions and constructive heuristics. <i>Computers and Operations Research</i> , 2009, 36, 2866-2876.	4.0	20

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73	A review and classification of computer-based manufacturing scheduling tools. <i>Computers and Industrial Engineering</i> , 2016, 99, 229-249.	6.3	20
74	Proportional order-up-to policies for closed-loop supply chains: the dynamic effects of inventory controllers. <i>International Journal of Production Research</i> , 2021, 59, 3323-3337.	7.5	20
75	Sequencing CONWIP flow-shops: Analysis and heuristics. <i>International Journal of Production Research</i> , 2001, 39, 2735-2749.	7.5	19
76	New efficient constructive heuristics for the two-stage multi-machine assembly scheduling problem. <i>Computers and Industrial Engineering</i> , 2020, 140, 106223.	6.3	19
77	Special issue on pull strategies in manufacturing systems and supply chains: recent advances. <i>Journal of Intelligent Manufacturing</i> , 2012, 23, 1-3.	7.3	18
78	Design of a testbed for hybrid flow shop scheduling with identical machines. <i>Computers and Industrial Engineering</i> , 2020, 141, 106288.	6.3	18
79	On the link between inventory and responsiveness in multi-product supply chains. <i>International Journal of Systems Science</i> , 2008, 39, 677-688.	5.5	16
80	The pull evolution: from Kanban to customised token-based systems. <i>Production Planning and Control</i> , 2009, 20, 276-287.	8.8	16
81	Setting a common due date in a constrained flowshop: A variable neighbourhood search approach. <i>Computers and Operations Research</i> , 2010, 37, 1740-1748.	4.0	16
82	A multi-objective comparison of dispatching rules in a drum-“buffer”-rope production control system. <i>International Journal of Computer Integrated Manufacturing</i> , 2010, 23, 155-167.	4.6	16
83	Exploring a two-product unreliable manufacturing system as a capacity constraint for a two-echelon supply chain dynamic problem. <i>International Journal of Production Research</i> , 2022, 60, 1105-1133.	7.5	16
84	XPDR project: Improving the project documentation quality in the Spanish architectural, engineering and construction sector. <i>Automation in Construction</i> , 2010, 19, 270-282.	9.8	15
85	A decision management tool: modelling the order fulfilment process by multi-agent systems. <i>International Journal of Management and Decision Making</i> , 2013, 12, 240.	0.1	15
86	Relationship between common objective functions, idle time and waiting time in permutation flow shop scheduling. <i>Computers and Operations Research</i> , 2020, 121, 104965.	4.0	15
87	The implications of batching in the bullwhip effect and customer service of closed-loop supply chains. <i>International Journal of Production Economics</i> , 2022, 244, 108379.	8.9	15
88	A methodology for the design and operation of pull-based supply chains. <i>Journal of Manufacturing Technology Management</i> , 2013, 24, 307-330.	6.4	14
89	An adaptive branch and bound approach for transforming job shops into flow shops. <i>Computers and Industrial Engineering</i> , 2007, 52, 1-10.	6.3	13
90	Integrated Project Scheduling and Staff Assignment with Controllable Processing Times. <i>Scientific World Journal</i> , The, 2014, 2014, 1-16.	2.1	13

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91	Exploring the benefits of scheduling with advanced and real-time information integration in Industry 4.0: A computational study. <i>Journal of Industrial Information Integration</i> , 2022, 27, 100281.	6.4	13
92	Analysing the impact of production control policies on the dynamics of a two-product supply chain with capacity constraints. <i>International Journal of Production Research</i> , 2023, 61, 1913-1937.	7.5	13
93	Efficient constructive and composite heuristics for the Permutation Flowshop to minimise total earliness and tardiness. <i>Computers and Operations Research</i> , 2016, 75, 38-48.	4.0	12
94	A fitness-based weighting mechanism for multicriteria flowshop scheduling using genetic algorithms. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 43, 939-948.	3.0	11
95	A response surface methodology for parameter setting in a dynamic Conwip production control system. <i>International Journal of Manufacturing Technology and Management</i> , 2011, 23, 16.	0.1	11
96	Assembly flowshop scheduling problem: Speed-up procedure and computational evaluation. <i>European Journal of Operational Research</i> , 2022, 299, 869-882.	5.7	11
97	New efficient heuristics for scheduling open shops with makespan minimization. <i>Computers and Operations Research</i> , 2022, 142, 105744.	4.0	11
98	On transforming job-shops into flow-shops. <i>Production Planning and Control</i> , 2002, 13, 166-174.	8.8	9
99	Controllable Processing Times in Project and Production Management: Analysing the Trade-Off between Processing Times and the Amount of Resources. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-19.	1.1	9
100	A critical-path based iterated local search for the green permutation flowshop problem. <i>Computers and Industrial Engineering</i> , 2022, 169, 108276.	6.3	9
101	SCOPE: A Multi-Agent system tool for supply chain network analysis. , 2015, , .		8
102	Efficient heuristic approaches to transform job shops into flow shops. <i>IIE Transactions</i> , 2005, 37, 441-451.	2.1	7
103	Reduction of permutation flowshop problems to single machine problems using machine dominance relations. <i>Computers and Operations Research</i> , 2017, 77, 96-110.	4.0	7
104	Turbulence in Market Demand on Supply Chain Networks. <i>International Journal of Simulation Modelling</i> , 2016, 15, 450-459.	1.3	7
105	Assessing scheduling policies in a permutation flowshop with common due dates. <i>International Journal of Production Research</i> , 2015, 53, 5742-5754.	7.5	6
106	Available-To-Promise systems in the semiconductor industry: A review of contributions and a preliminary experiment. , 2016, , .		6
107	Demand Sharing Inaccuracies in Supply Chains: A Simulation Study. <i>Complexity</i> , 2018, 2018, 1-13.	1.6	6
108	Evolving Trends in Supply Chain Management: Complexity, New Technologies, and Innovative Methodological Approaches. <i>Complexity</i> , 2018, 2018, 1-3.	1.6	6

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109	Hybrid flow shop with multiple servers: A computational evaluation and efficient divide-and-conquer heuristics. <i>Expert Systems With Applications</i> , 2020, 153, 113462.	7.6	5
110	Matheuristics for the flowshop scheduling problem with controllable processing times and limited resource consumption to minimize total tardiness. <i>Computers and Operations Research</i> , 2022, , 105880.	4.0	5
111	A Simulation Optimization Approach for Reactive ConWIP Systems. , 2013, , .		4
112	The value of real-time data in stochastic flowshop scheduling: A simulation study for makespan. , 2017, , .		4
113	Single machine interfering jobs problem with flowtime objective. <i>Journal of Intelligent Manufacturing</i> , 2018, 29, 953-972.	7.3	4
114	Information sharing in decentralised supply chains with partial collaboration. <i>Flexible Services and Manufacturing Journal</i> , 2022, 34, 263-292.	3.4	4
115	Modelling Supply Chain Dynamics. , 2022, , .		4
116	A note on a DSS approach to managing customer enquiries for SMEs at the customer level enquiry stage. <i>International Journal of Production Economics</i> , 2007, 109, 254-255.	8.9	3
117	A proposal for a hybrid meta-strategy for combinatorial optimization problems. <i>Journal of Heuristics</i> , 2008, 14, 375-390.	1.4	3
118	A Decision-Making Tool for a Regional Network of Clinical Laboratories. <i>Interfaces</i> , 2013, 43, 360-372.	1.5	3
119	Minimization of total completion time on a batch processing machine with arbitrary release dates: an effectual teaching-learning based optimization approach. <i>Production Engineering</i> , 2019, 13, 557-566.	2.3	3
120	Building Resilience in Closed-Loop Supply Chains through Information-Sharing Mechanisms. <i>Sustainability</i> , 2019, 11, 6746.	3.2	3
121	Tools for Collaborative Business Process T Modeling. , 2008, , 1643-1652.		3
122	Optimization Customized Token-Based Production Control Systems Using Cross-Entropy. , 2007, , 123-131.		2
123	On the evaluation of arborescent supply chains with inventory errors. , 2015, , .		2
124	Combining simulation with metaheuristics in distributed scheduling problems with stochastic processing times. , 2016, , .		2
125	Linking Scheduling Criteria to Shop Floor Performance in Permutation Flowshops. <i>Algorithms</i> , 2019, 12, 263.	2.1	2
126	Handling variability for robust order promising and fulfilment. , 2009, , .		1



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127	Insights on Partial Information Sharing in Supply Chain dynamics. , 2015, , .		1
128	Constructive heuristics for the minimization of core waiting time in permutation flow shop problems. , 2019, , .		1
129	Overview of Scheduling Tools. , 2014, , 291-317.		1
130	Tools for Collaborative Business Process T Modeling. , 2010, , 636-648.		1
131	Constructive and composite heuristics for the 2-stage assembly scheduling problem with periodic maintenance and makespan objective. Expert Systems With Applications, 2022, 206, 117824.	7.6	1
132	THE ROLE OF INVENTORY IN ENABLING SUPPLY CHAIN RESPONSIVENESS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 309-314.	0.4	0
133	Guidelines for Developing Scheduling Systems. , 2014, , 353-369.		0
134	Boundary lines between permutation flowshop problems and single machine problems. , 2015, , .		0
135	Constructive heuristics comparison in hybrid flow shop scheduling environments with missing operations. , 2015, , .		0
136	Simulation results of optimal solution for a multiechelon inventory system. , 2017, , .		0
137	Closed-Loop Supply Chain. , 2022, , 151-166.		0
138	The Effect of the Quality of Information in SCD. , 2022, , 85-121.		0
139	Modelling Complex SC Structures. , 2022, , 167-183.		0
140	Scheduling Constraints. , 2014, , 75-99.		0