

Stéphane Dauzère-Pérès

List of Publications by Year in descending order

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174
papers

4,964
citations

116194

36
h-index

120465

65
g-index

179
all docs

179
docs citations

179
times ranked

3313
citing authors

#	ARTICLE	IF	CITATIONS
1	A global scheduling approach for cycle time control in complex manufacturing systems. International Journal of Production Research, 2023, 61, 559-579.	4.9	3
2	An improved decision support model for scheduling production in an engineer-to-order manufacturer. 4or, 2023, 21, 247-300.	1.0	1
3	Timed route approaches for large multi-product multi-step capacitated production planning problems. European Journal of Operational Research, 2022, 300, 602-614.	3.5	3
4	Stochastic programming approaches for an energy-aware lot-sizing and sequencing problem with incentive. International Journal of Production Research, 2022, 60, 5746-5768.	4.9	1
5	Robust tactical qualification decisions in flexible manufacturing systems. Omega, 2022, 106, 102537.	3.6	2
6	Multiobjective optimization for complex flexible job-shop scheduling problems. European Journal of Operational Research, 2022, 296, 87-100.	3.5	28
7	Dynamic lot sizing with stochastic demand timing. European Journal of Operational Research, 2022, 302, 221-229.	3.5	2
8	Motivations and analysis of the capacitated lot-sizing problem with setup times and minimum and maximum ending inventories. European Journal of Operational Research, 2022, 302, 203-220.	3.5	1
9	Optimizing multiple qualifications of products on non-identical parallel machines. Computers and Operations Research, 2022, 144, 105813.	2.4	1
10	A Simulation-Based Approach for Operational Management of Time Constraint Tunnels in Semiconductor Manufacturing : Topic: IE: Industrial Engineering. , 2022, , .		0
11	A sampling-based approach for managing lot release in time constraint tunnels in semiconductor manufacturing. International Journal of Production Research, 2021, 59, 860-884.	4.9	16
12	Unrelated parallel machine scheduling with new criteria: Complexity and models. Computers and Operations Research, 2021, 132, 105291.	2.4	25
13	Towards A Generic Semiconductor Manufacturing Simulation Model. , 2021, , .		0
14	A Lagrangian heuristic for minimising risk using multiple heterogeneous metrology tools. International Journal of Production Research, 2020, 58, 1222-1238.	4.9	0
15	Dynamic dispatching and preventive maintenance for parallel machines with dispatching-dependent deterioration. Computers and Operations Research, 2020, 113, 104779.	2.4	11
16	On the importance of variability when managing metrology capacity. European Journal of Operational Research, 2020, 282, 267-276.	3.5	0
17	A queue-based aggregation approach for performance evaluation of a production system with an AMHS. Computers and Operations Research, 2020, 115, 104838.	2.4	14
18	A multi-objective optimization-simulation approach for real time rescheduling in dense railway systems. European Journal of Operational Research, 2020, 286, 662-672.	3.5	40

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19	A deep learning approach for the dynamic dispatching of unreliable machines in re-entrant production systems. International Journal of Production Research, 2020, 58, 2822-2840.	4.9	23
20	Artificial intelligence in manufacturing and logistics systems: algorithms, applications, and case studies. International Journal of Production Research, 2020, 58, 2730-2731.	4.9	49
21	Scheduling and Simulation in wafer fabs: Competitors, Independent Players or Amplifiers?. , 2020, , .		1
22	Optimizing the Allocation of Single-Lot Stockers in an AMHS in Semiconductor Manufacturing. , 2020, , .		0
23	Maintenance with Production Planning Constraints in Semiconductor Manufacturing. , 2020, , .		1
24	Dynamic Sampling for Risk Minimization in Semiconductor Manufacturing. , 2020, , .		1
25	Using a new multi-objective concept for real time rescheduling in dense railway systems. , 2020, , .		0
26	Performance evaluation of single and multi-class production systems using an approximating queuing network. International Journal of Production Research, 2019, 57, 1497-1523.	4.9	3
27	Multi-objective optimization for Work-In-Process balancing and throughput maximization in global fab scheduling. , 2019, , .		4
28	Dynamic cloud-based computation for skipping lots in metrology : IE : Industrial Engineering. , 2019, , .		0
29	Sampling-based release control of multiple lots in time constraint tunnels. Computers in Industry, 2019, 110, 3-11.	5.7	7
30	An Iterated Min-Max procedure for practical workload balancing on non-identical parallel machines in manufacturing systems. European Journal of Operational Research, 2019, 279, 419-428.	3.5	11
31	Parallel machine scheduling with time constraints on machine qualifications. Computers and Operations Research, 2019, 107, 61-76.	2.4	22
32	An efficient Pareto approach for solving the multi-objective flexible job-shop scheduling problem with regular criteria. Computers and Operations Research, 2019, 108, 187-200.	2.4	28
33	Work-in-Process Balancing Control in Global Fab Scheduling for Semiconductor Manufacturing. , 2019, , .		3
34	AMHS Vehicle Management Policies in Semiconductor Manufacturing: A Short Review. , 2019, , .		7
35	Evaluating the Impact of Dynamic Qualification Management in Semiconductor Manufacturing. , 2019, , .		0
36	A decision support system for a critical time constraint tunnel. , 2019, , .		1

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37	Transportation mode selection in inventory models: A literature review. European Journal of Operational Research, 2019, 279, 1-25.	3.5	34
38	Heuristics Based on Genetic Algorithms for the Capacitated Multi Vehicle Production Distribution Problem. Computers and Operations Research, 2018, 96, 108-119.	2.4	27
39	Multi-item bi-level supply chain planning with multiple remanufacturing of reusable by-products. International Journal of Production Economics, 2018, 198, 25-37.	5.1	14
40	Comparing sequential and integrated approaches for the production routing problem. European Journal of Operational Research, 2018, 269, 633-646.	3.5	23
41	Solving the flexible job shop scheduling problem with sequence-dependent setup times. European Journal of Operational Research, 2018, 265, 503-516.	3.5	150
42	A STUDY ON THE INTEGRATION OF COMPLEX MACHINES IN COMPLEX JOB SHOP SCHEDULING. , 2018, , .		3
43	GENERIC DATA MODEL FOR SEMICONDUCTOR MANUFACTURING SUPPLY CHAINS. , 2018, , .		7
44	PRODUCTION PLANNING MODELS WITH PRODUCTIVITY AND FINANCIAL OBJECTIVE FUNCTIONS IN SEMICONDUCTOR MANUFACTURING. , 2018, , .		0
45	Setting daily production targets with novel approximation of target tracking operations for semiconductor manufacturing. Journal of Manufacturing Systems, 2018, 49, 107-120.	7.6	5
46	Modelling and analysis of semiconductor supply chains. International Journal of Production Research, 2018, 56, 4521-4523.	4.9	6
47	A multi-purpose operational capacity and production planning tool. , 2018, , .		3
48	Metaheuristics for the job-shop scheduling problem with machine availability constraints. Computers and Industrial Engineering, 2018, 125, 1-8.	3.4	31
49	Impact of integrating equipment health in production scheduling for semiconductor fabrication. Computers and Industrial Engineering, 2018, 120, 450-459.	3.4	24
50	Single-item dynamic lot-sizing problems: An updated survey. European Journal of Operational Research, 2017, 263, 838-863.	3.5	133
51	A batch-oblivious approach for Complex Job-Shop scheduling problems. European Journal of Operational Research, 2017, 263, 50-61.	3.5	41
52	Rescheduling through stop-skipping in dense railway systems. Transportation Research Part C: Emerging Technologies, 2017, 79, 73-84.	3.9	53
53	A decision support system for managing line stops of time constraint tunnels: FA, IE. , 2017, , .		3
54	Analyzing different dispatching policies for probability estimation in time constraint tunnels in semiconductor manufacturing. , 2017, , .		4

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55	Analyzing different dispatching policies for probability estimation in time constraint tunnels in semiconductor manufacturing. , 2017, , .		0
56	Allocating metrology capacity to multiple heterogeneous machines. International Journal of Production Research, 2016, 54, 6082-6091.	4.9	3
57	Management of crisis situations in a large unified AMHS of a semiconductor manufacturing facility: IE: Industrial engineering. , 2016, , .		3
58	Optimizing capacity assignment of multiple identical metrology tools. , 2016, , .		1
59	Generalized Overall Equipment Effectiveness for integrated scheduling and process control. , 2016, , .		0
60	Automated transportation of auxiliary resources in a semiconductor manufacturing facility. , 2016, , .		11
61	A Multi-Method Simulation Modelling for Semiconductor Manufacturing. IFAC-PapersOnLine, 2016, 49, 727-732.	0.5	14
62	Ideal and potential flexibility measures for qualification management in semiconductor manufacturing. , 2016, , .		2
63	A memetic algorithm to solve an unrelated parallel machine scheduling problem with auxiliary resources in semiconductor manufacturing. Journal of Scheduling, 2016, 19, 367-376.	1.3	60
64	The single-item green lot-sizing problem with fixed carbon emissions. European Journal of Operational Research, 2016, 248, 849-855.	3.5	68
65	Modeling and solving a one-supplier multi-vehicle production-inventory-distribution problem with clustered retailers. International Journal of Advanced Manufacturing Technology, 2016, 85, 971-989.	1.5	10
66	Impacts of RFID technologies on supply chains: a simulation study of a three-level supply chain subject to shrinkage and delivery errors. European Journal of Industrial Engineering, 2015, 9, 27.	0.5	11
67	Simulation model to control risk levels on process equipment through metrology in semiconductor manufacturing. , 2015, , .		3
68	Production control in semiconductor manufacturing with time constraints. , 2015, , .		14
69	A mathematical programming approach for optimizing control plans in semiconductor manufacturing. International Journal of Production Economics, 2015, 160, 213-219.	5.1	6
70	A Lagrangian heuristic for capacitated single item lot sizing problems. 4or, 2015, 13, 173-198.	1.0	9
71	Capacitated qualification management in semiconductor manufacturing. Omega, 2015, 54, 50-59.	3.6	17
72	A Lagrangian heuristic for an integrated lot-sizing and fixed scheduling problem. European Journal of Operational Research, 2015, 244, 3-12.	3.5	32

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73	Optimized allocation of defect inspection capacity with a dynamic sampling strategy. Computers and Operations Research, 2015, 53, 319-327.	2.4	9
74	A Lagrangian heuristic framework for a real-life integrated planning problem of railway transportation resources. Transportation Research Part B: Methodological, 2015, 74, 138-150.	2.8	20
75	Models and Lagrangian heuristics for a two-level lot-sizing problem with bounded inventory. OR Spectrum, 2015, 37, 983-1006.	2.1	18
76	A Two-Phase Iterative Heuristic Approach for the Production Routing Problem. Transportation Science, 2015, 49, 784-795.	2.6	100
77	Optimized allocation of straddle carriers to reduce overall delays at multimodal container terminals. Flexible Services and Manufacturing Journal, 2015, 27, 300-330.	1.9	12
78	Integration of scheduling and advanced process control in semiconductor manufacturing: review and outlook. Journal of Scheduling, 2015, 18, 195-205.	1.3	44
79	Integration of scheduling and advanced process control in semiconductor manufacturing: review and outlook. , 2014, , .		3
80	On the importance of optimizing in scheduling: The photolithography workstation. , 2014, , .		3
81	Smart dynamic sampling for wafer at risk reduction in semiconductor manufacturing. , 2014, , .		4
82	Qualification management to reduce workload variability in semiconductor manufacturing. , 2014, , .		4
83	Target setting with consideration of target-induced operation variability for performance improvement of semiconductor fabrication. , 2014, , .		0
84	Flexible job-shop scheduling with extended route flexibility for semiconductor manufacturing. , 2014, , .		9
85	Scheduling job families on non-identical parallel machines with time constraints. Annals of Operations Research, 2014, 213, 221-234.	2.6	22
86	Solving the integrated lot-sizing and job-shop scheduling problem. International Journal of Production Research, 2014, 52, 5236-5254.	4.9	22
87	Methodology for Aligning Factory Information and Control Systems in a Complex and Dynamic Environment: Case of Semiconductor Manufacturing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3309-3314.	0.4	1
88	Qualification management and its impact on capacity optimization. , 2013, , .		4
89	Optimizing the positioning and technological choices of RFID elements for aircraft part identification. European Journal of Operational Research, 2013, 227, 350-357.	3.5	9
90	Lot sizing with carbon emission constraints. European Journal of Operational Research, 2013, 227, 55-61.	3.5	204

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91	Heuristics for the multi-item capacitated lot-sizing problem with lost sales. Computers and Operations Research, 2013, 40, 264-272.	2.4	29
92	A Literature Review on Sampling Techniques in Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2013, 26, 188-195.	1.4	44
93	Scheduling jobs on a single batch processing machine with incompatible job families and weighted number of tardy jobs objective. Computers and Operations Research, 2013, 40, 1224-1233.	2.4	27
94	Skipping algorithms for defect inspection using a dynamic control strategy in semiconductor manufacturing. , 2013, , .		7
95	Modeling complex processability constraints in high-mix semiconductor manufacturing. , 2013, , .		1
96	Analyzing the impact of key parameters of vehicle management policies in a unified AMHS. , 2013, , .		10
97	Qualification management with batch size constraint. , 2013, , .		6
98	A mathematical model for estimating defect inspection capacity with a dynamic control strategy. , 2012, , .		3
99	Industrial implementation of a dynamic sampling algorithm in semiconductor manufacturing: Approach and challenges. , 2012, , .		5
100	Heuristics for Job Shop Scheduling With Limited Machine Availability. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1395-1400.	0.4	4
101	Dispatching of lots to dynamically reduce the wafers at risk in semiconductor manufacturing. , 2012, , .		1
102	Scheduling on parallel machines with time constraints and Equipment Health Factors. , 2012, , .		6
103	A batching and scheduling algorithm for the diffusion area in semiconductor manufacturing. International Journal of Production Research, 2012, 50, 2118-2132.	4.9	51
104	An exact approach for scheduling jobs with regular step cost functions on a single machine. Computers and Operations Research, 2012, 39, 1033-1043.	2.4	10
105	Just-in-Time Planning and Lot-Sizing. Springer Optimization and Its Applications, 2012, , 191-207.	0.6	2
106	Near optimal furnace tool allocation with batching and waiting time constraints. , 2011, , .		7
107	Impact of control plan design on tool risk management: A simulation study in semiconductor manufacturing. , 2011, , .		3
108	Scheduling job families on non-identical parallel machines with time constraints. , 2011, , .		1

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109	Dynamic management of controls in semiconductor manufacturing. , 2011, , .		9
110	A Smart Sampling Scheduling and Skipping Simulator and its evaluation on real data sets. , 2011, , .		3
111	Modelling and solving a practical flexible job-shop scheduling problem with blocking constraints. International Journal of Production Research, 2011, 49, 2169-2182.	4.9	29
112	Uncapacitated lot-sizing problem with production time windows, early productions, backlogs and lost sales. International Journal of Production Research, 2011, 49, 2551-2566.	4.9	40
113	Novel models and approaches for semiconductor manufacturing. Production Planning and Control, 2011, 22, 1-3.	5.8	3
114	Modelling and analysis of semiconductor manufacturing in a shrinking world: challenges and successes. European Journal of Industrial Engineering, 2011, 5, 254.	0.5	74
115	Feedforward Run-to-Run Control for Reduced Parametric Transistor Variation in CMOS Logic 0.13 μm Technology. IEEE Transactions on Semiconductor Manufacturing, 2011, 24, 273-279.	1.4	6
116	Scheduling jobs on parallel machines to minimize a regular step total cost function. Journal of Scheduling, 2011, 14, 523-538.	1.3	23
117	A survey of problems, solution techniques, and future challenges in scheduling semiconductor manufacturing operations. Journal of Scheduling, 2011, 14, 583-599.	1.3	312
118	A general approach for optimizing regular criteria in the job-shop scheduling problem. European Journal of Operational Research, 2011, 212, 33-42.	3.5	74
119	Optimized management of excursions in semiconductor manufacturing. , 2011, , .		3
120	Flexibility measures for qualification management in wafer fabs. Production Planning and Control, 2011, 22, 81-90.	5.8	41
121	Impacts of radio-identification on cryo-conservation centers. ACM Transactions on Modeling and Computer Simulation, 2011, 21, 1-23.	0.6	43
122	Guest Editorial Equipment and Operations Automation in the Semiconductor Industry. IEEE Transactions on Automation Science and Engineering, 2011, 8, 1-4.	3.4	4
123	Solving the Resource Allocation Problem in a Multimodal Container Terminal as a Network Flow Problem. Lecture Notes in Computer Science, 2011, , 341-353.	1.0	5
124	Polyhedral and Lagrangian approaches for lot sizing with production time windows and setup times. Computers and Operations Research, 2010, 37, 182-188.	2.4	13
125	A literature review on the impact of RFID technologies on supply chain management. International Journal of Production Economics, 2010, 128, 77-95.	5.1	435
126	A smart sampling algorithm to minimize risk dynamically. , 2010, , .		38

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127	Simulation of a full 300mm semiconductor manufacturing plant with material handling constraints. , 2009, , .		15
128	Impacts of Radio-identification on cryo-conservation centers through simulation. , 2009, , .		6
129	Priority Cycle Time Behavior Modeling for Semiconductor Fabs. , 2009, , .		0
130	Optimizing flexibility and equipment utilization through qualification management. , 2009, , .		1
131	A Reduced-Complexity Algorithm for Two-Job Shop Scheduling Problems with Availability Constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1190-1195.	0.4	3
132	A genetic local search algorithm for minimizing total weighted tardiness in the job-shop scheduling problem. Computers and Operations Research, 2008, 35, 2599-2616.	2.4	129
133	A Batch Optimization Software for diffusion area scheduling in semiconductor manufacturing. IEEE International Symposium on Semiconductor Manufacturing Conference, Proceedings, 2008, , .	0.0	16
134	Modeling and analysis of semiconductor manufacturing in a shrinking world: Challenges and successes. , 2008, , .		11
135	Impact of qualification management on scheduling in semiconductor manufacturing. , 2008, , .		11
136	A simulation approach to evaluate the impact of introducing RFID technologies in a three-level supply chain. , 2008, , .		11
137	Importance of Qualification Management for Wafer Fabs. , 2007, , .		8
138	Omya Hustadmarmor Optimizes Its Supply Chain for Delivering Calcium Carbonate Slurry to European Paper Manufacturers. Interfaces, 2007, 37, 39-51.	1.6	45
139	Simulation results and formalism for global-local scheduling in semiconductor manufacturing facilities. , 2007, , .		10
140	Disjunctive and time-indexed formulations for non-preemptive job shop scheduling with resource availability constraints. , 2007, , .		6
141	An approach for simulating consistent global and local scheduling. , 2007, , .		2
142	Feed-forward run-to-run control for reduced parametric transistor variation in CMOS logic 0.13μm technology. , 2007, , .		1
143	Integrated optimization of production and distribution for several products. , 2006, , .		10
144	A NEW APPROACH FOR SOLVING INTEGRATED PLANNING AND SCHEDULING PROBLEM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 191-196.	0.4	3

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145	SCHEDULING MOVES WITHIN RAILCAR MAINTENANCE CENTERS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 405-410.	0.4	1
146	SCHEDULING CHALLENGES AND APPROACHES IN SEMICONDUCTOR MANUFACTURING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 739-744.	0.4	7
147	Single-machine scheduling with time window-dependent processing times. Journal of the Operational Research Society, 2006, 57, 133-139.	2.1	3
148	Complexity of flowshop scheduling problems with a new blocking constraint. European Journal of Operational Research, 2006, 169, 855-864.	3.5	65
149	Single item lot sizing problems. European Journal of Operational Research, 2006, 168, 1-16.	3.5	268
150	Capacitated Multi-Item Lot-Sizing Problems with Time Windows. Operations Research, 2006, 54, 951-967.	1.2	47
151	An Exact Method to Minimize the Number of Tardy Jobs in Single Machine Scheduling. Journal of Scheduling, 2004, 7, 405-420.	1.3	27
152	Using Lagrangean relaxation to minimize the weighted number of late jobs on a single machine. Naval Research Logistics, 2003, 50, 273-288.	1.4	37
153	Genetic algorithms to minimize the weighted number of late jobs on a single machine. European Journal of Operational Research, 2003, 151, 296-306.	3.5	77
154	Extensions of an integrated approach for multi-resource shop scheduling. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2003, 33, 207-213.	3.3	13
155	On the importance of sequencing decisions in production planning and scheduling. International Transactions in Operational Research, 2002, 9, 779-793.	1.8	41
156	Models and solving procedures for continuous-time production planning. IIE Transactions, 2000, 32, 93-103.	2.1	8
157	Models and solving procedures for continuous-time production planning. IIE Transactions, 2000, 32, 93-103.	2.1	9
158	Planning and scheduling in a multi-site environment. Production Planning and Control, 1999, 10, 19-28.	5.8	32
159	Multi-resource shop scheduling with resource flexibility. European Journal of Operational Research, 1998, 107, 289-305.	3.5	94
160	Lot Streaming in Job-Shop Scheduling. Operations Research, 1997, 45, 584-595.	1.2	66
161	Title is missing!. Annals of Operations Research, 1997, 70, 281-306.	2.6	349
162	Solving the discrete lotsizing and scheduling problem with sequence dependent set-up costs and set-up times using the Travelling Salesman Problem with time windows. European Journal of Operational Research, 1997, 100, 494-513.	3.5	61

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163	Routing Trains Through Railway Stations: Model Formulation and Algorithms. Transportation Science, 1996, 30, 181-194.	2.6	138
164	A procedure for the one-machine sequencing problem with dependent jobs. European Journal of Operational Research, 1995, 81, 579-589.	3.5	9
165	Minimizing late jobs in the general one machine scheduling problem. European Journal of Operational Research, 1995, 81, 134-142.	3.5	43
166	Integration of lotsizing and scheduling decisions in a job-shop. European Journal of Operational Research, 1994, 75, 413-426.	3.5	52
167	An Integrated Approach in Production Planning and Scheduling. Lecture Notes in Economics and Mathematical Systems, 1994, , .	0.3	44
168	The one-machine sequencing problem with dependent jobs. Computers and Industrial Engineering, 1993, 25, 235-238.	3.4	1
169	An iterative procedure for lot streaming in job-shop scheduling. Computers and Industrial Engineering, 1993, 25, 231-234.	3.4	17
170	A modified shifting bottleneck procedure for job-shop scheduling. International Journal of Production Research, 1993, 31, 923-932.	4.9	120
171	An efficient formulation for minimizing the number of late jobs in single-machine scheduling. , 0, , .		7
172	A modified simulated annealing method for flexible job shop scheduling problem. , 0, , .		37
173	Vehicle positioning in complex automated transport systems. , 0, , .		2
174	A dynamic optimisation approach for a single machine scheduling problem with machine conditions and maintenance decisions. International Journal of Production Research, 0, , 1-16.	4.9	3