Dunbing Tang

List of Publications by Year
in descending order

77 papers	1,864 citations	331642 21 h-index	276858 41 g-index
77 all docs	77 docs citations	77 times ranked	1285 citing authors

#	Article	IF	Citations
1	Energy-efficient scheduling for a flexible flow shop using an improved genetic-simulated annealing algorithm. Robotics and Computer-Integrated Manufacturing, 2013, 29, 418-429.	9.9	383
2	Energy-efficient dynamic scheduling for a flexible flow shop using an improved particle swarm optimization. Computers in Industry, 2016, 81, 82-95.	9.9	187
3	Multi-objective optimization for energy-efficient flexible job shop scheduling problem with transportation constraints. Robotics and Computer-Integrated Manufacturing, 2019, 59, 143-157.	9.9	177
4	Product design knowledge management based on design structure matrix. Advanced Engineering Informatics, 2010, 24, 159-166.	8.0	93
5	Re-engineering of the design process for concurrent engineering. Computers and Industrial Engineering, 2000, 38, 479-491.	6.3	79
6	Design as integration of axiomatic design and design structure matrix. Robotics and Computer-Integrated Manufacturing, 2009, 25, 610-619.	9.9	69
7	Energy-aware integrated process planning and scheduling for job shops. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 13-26.	2.4	52
8	Dynamic job shop scheduling based on deep reinforcement learning for multi-agent manufacturing systems. Robotics and Computer-Integrated Manufacturing, 2022, 78, 102412.	9.9	52
9	Multi-agent reinforcement learning for online scheduling in smart factories. Robotics and Computer-Integrated Manufacturing, 2021, 72, 102202.	9.9	48
10	Engineering Product and Process Design Changes: A Literature Overview. Procedia CIRP, 2016, 56, 25-33.	1.9	41
11	Optimisation of product configuration in consideration of customer satisfaction and low carbon. International Journal of Production Research, 2017, 55, 3349-3373.	7.5	41
12	Probing an intelligent predictive maintenance approach with deep learning and augmented reality for machine tools in IoT-enabled manufacturing. Robotics and Computer-Integrated Manufacturing, 2022, 77, 102357.	9.9	36
13	A Novel Predictive Maintenance Method Based on Deep Adversarial Learning in the Intelligent Manufacturing System. IEEE Access, 2021, 9, 49557-49575.	4.2	31
14	Analysis of Engineering Change Impacts Based on Design Structure Matrix. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2010, 46, 154.	0.5	31
15	Distributed control of multi-AGV system based on regional control model. Production Engineering, 2013, 7, 433-441.	2.3	30
16	Reinforcement Learning With Composite Rewards for Production Scheduling in a Smart Factory. IEEE Access, 2021, 9, 752-766.	4.2	30
17	Rating engineering characteristics in open design using a probabilistic language method based on fuzzy QFD. Computers and Industrial Engineering, 2019, 135, 348-358.	6.3	26
18	Matrix-based computational conceptual design with ant colony optimisation. Journal of Engineering Design, 2013, 24, 429-452.	2.3	25

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19	Using autonomous intelligence to build a smart shop floor. International Journal of Advanced Manufacturing Technology, 2018, 94, 1597-1606.	3.0	25
20	An Optimization Approach for the Coordinated Low-Carbon Design of Product Family and Remanufactured Products. Sustainability, 2019, 11, 460.	3.2	24
21	Qualitative and quantitative cost analysis for sheet metal stamping. International Journal of Computer Integrated Manufacturing, 2004, 17, 394-412.	4.6	22
22	An Adaptive Real-Time Scheduling Method for Flexible Job Shop Scheduling Problem With Combined Processing Constraint. IEEE Access, 2019, 7, 125113-125121.	4.2	22
23	A neuroendocrine-inspired approach for adaptive manufacturing system control. International Journal of Production Research, 2011, 49, 1255-1268.	7.5	19
24	Using Autonomous Intelligence to Build a Smart Shop Floor. Procedia CIRP, 2016, 56, 354-359.	1.9	19
25	Energy efficiency, robustness, and makespan optimality in job-shop scheduling problems. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2016, 30, 300-312.	1.1	19
26	A flexible configuration method of distributed manufacturing resources in the context of social manufacturing. Computers in Industry, 2021, 132, 103511.	9.9	19
27	A novel approach for capturing and evaluating dynamic consumer requirements in open design. Advanced Engineering Informatics, 2019, 39, 95-111.	8.0	16
28	Dynamic shop floor re-scheduling approach inspired by a neuroendocrine regulation mechanism. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 121-134.	2.4	14
29	Least Risky Change Propagation Path Analysis in Product Design Process. Systems Engineering, 2017, 20, 379-391.	2.7	14
30	Engineering change information propagation in aviation industrial manufacturing execution processes. International Journal of Advanced Manufacturing Technology, 2016, 83, 575-585.	3.0	12
31	Topology faceâ€"based change propagation analysis in aircraft-assembly tooling design. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2016, 230, 120-135.	2.4	12
32	Managing engineering change requirements during the product development process. Concurrent Engineering Research and Applications, 2018, 26, 171-186.	3.2	12
33	Cost-effective propagation paths for multiple change requirements in the product design. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 1572-1585.	2.1	11
34	An Optimization Method for Coordinating Supplier Selection and Low-Carbon Design of Product Family. International Journal of Precision Engineering and Manufacturing, 2018, 19, 1715-1726.	2.2	11
35	An Improved Genetic-Simulated Annealing Algorithm Based on a Hormone Modulation Mechanism for a Flexible Flow-Shop Scheduling Problem. Advances in Mechanical Engineering, 2013, 5, 124903.	1.6	10
36	Feature-based metal stamping part and process design. Part II: stamping process planning. International Journal of Production Research, 2007, 45, 2997-3015.	7.5	9

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37	A hormone regulationâ€“based approach for distributed and on-line scheduling of machines and automated guided vehicles. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 99-113.	2.4	9
38	A multi-agent and internet of things framework of digital twin for optimized manufacturing control. International Journal of Computer Integrated Manufacturing, 2022, 35, 1205-1226.	4.6	9
39	Research on key technologies for immune monitoring of intelligent manufacturing system. International Journal of Advanced Manufacturing Technology, 2018, 94, 1607-1621.	3.0	8
40	Reinforcement learning for online optimization of job-shop scheduling in a smart manufacturing factory. Advances in Mechanical Engineering, 2022, 14, 168781322210861.	1.6	8
41	A transfer learning CNN-LSTM network-based production progress prediction approach in IIoT-enabled manufacturing. International Journal of Production Research, 2023, 61, 4045-4068.	7.5	8
42	Assembly sequence planning based on structure cells in open design. Advanced Engineering Informatics, 2022, 53, 101685.	8.0	8
43	An approach to product solution generation and evaluation based on the similarity theory and Ant Colony Optimisation. International Journal of Computer Integrated Manufacturing, 2014, 27, 1090-1104.	4.6	7
44	Engineering Change Management of Product Design Using Model-Based Definition Technology. Journal of Computing and Information Science in Engineering, 2017, 17, .	2.7	7
45	An optimization model for low carbon oriented modular product platform planning (MP3). International Journal of Precision Engineering and Manufacturing - Green Technology, 2018, 5, 121-132.	4.9	7
46	Functional reverse design for secondary innovation. International Journal of Product Lifecycle Management, 2011, 5, 183.	0.3	6
47	A neuroendocrine-inspired bionic manufacturing system. Journal of Systems Science and Systems Engineering, 2011, 20, 275-293.	1.6	6
48	Risk Analysis of Engineering Change for Distributed Product Design. Journal of Computing and Information Science in Engineering, 2021, 21, .	2.7	6
49	Dynamic model and simulation of open innovation in product development. International Journal of Computer Integrated Manufacturing, 2019, 32, 253-267.	4.6	5
50	An improved iterative stochastic multi-objective acceptability analysis method for robust alternative selection in new product development. Advanced Engineering Informatics, 2020, 43, 101038.	8.0	5
51	Feature-based metal stamping part and process design. Part I: stampability evaluation. International Journal of Production Research, 2007, 45, 2673-2695.	7.5	4
52	A Method for Green Modular Design Considering Product Platform Planning Strategy. Procedia CIRP, 2016, 56, 40-45.	1.9	4
53	An Agent Based Intelligent Distributed Control Paradigm for Manufacturing Systems. IFAC-PapersOnLine, 2016, 49, 1549-1554.	0.9	4
54	Production control strategy inspired by neuroendocrine regulation. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 67-77.	2.4	4

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55	A dynamic dispatching control system for processing workshop based on multi-agent and value matching. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2023, 237, 144-153.	2.4	4
56	A multi-agent controller on embedded system for complex mechatronics. , 2009, , .		3
57	MULTI-AGV SCHEDULING OPTIMIZATION BASED ONÂNEURO-ENDOCRINE COORDINATION MECHANISMÂ. International Journal on Smart Sensing and Intelligent Systems, 2014, 7, 1613-1630.	0.7	3
58	Product design knowledge management based on design structure matrix. , 2008, , .		2
59	RFID applications in automotive Assembly line equipped with friction drive conveyors. , 2011, , .		2
60	Minimizing makespan in job-shop scheduling problem using an improved adaptive particle swarm optimization algorithm. , 2012, , .		2
61	Research on the Immune Monitoring Model of Organic Manufacturing System. Procedia CIRP, 2016, 56, 533-538.	1.9	2
62	A practical approach for multiagent manufacturing system based on agent computing nodes. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, , 095440622090862.	2.1	2
63	Manufacturing resources coordination organisation and tasks allocation approach inspired by the endocrine regulation principle. IET Collaborative Intelligent Manufacturing, 2020, 2, 37-44.	3.3	2
64	Agent-based System for Collaborative Stamping Part Design. , 2006, , .		1
65	Functional reverse design: Method and application. , 2010, , .		1
66	Dynamic Analysis of Production Network from Perspective of Order Flows. Procedia CIRP, 2016, 56, 215-219.	1.9	1
67	Adaptive Control of Bio-Inspired Manufacturing Systems. Research on Intelligent Manufacturing, 2020, , .	0.3	1
68	Research on Workers Integration in Smart Factories with Multi-Agent Control System. IEEE Access, 2021, , 1-1.	4.2	1
69	Bio-Inspired Manufacturing System Model. Research on Intelligent Manufacturing, 2020, , 1-18.	0.3	1
70	Collaborative Supplier Integration for Automotive Product Design and Development. , 2007, , .		0
71	Research on resource optimization of concurrent product development process on DSM. , 2007, , .		0
72	Design Solution Optimization with Ant Colony Optimization. , 2012, , .		0

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73	System state assessment of a grey immune mechanism-based organic manufacturing system. , 2015, , .		0
74	Matrix-Based Computational Concept Design with Ant Colony Optimization. , 2018, , 55-82.		0
75	Production Control Strategy Inspired by Neuroendocrine Regulation. Research on Intelligent Manufacturing, 2020, , 73-91.	0.3	0
76	Development of Simulation Platform for BIMS. Research on Intelligent Manufacturing, 2020, , 113-128.	0.3	0
77	Hormone Regulation Based Approach for Distributed and On-line Scheduling of Machines and AGVs. Research on Intelligent Manufacturing, 2020, , 47-72.	0.3	0