

Weidong Li

List of Publications by Year in descending order

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112
papers

4,125
citations

126907

33
h-index

118850

62
g-index

116
all docs

116
docs citations

116
times ranked

2793
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy-efficient scheduling for a flexible flow shop using an improved genetic-simulated annealing algorithm. <i>Robotics and Computer-Integrated Manufacturing</i> , 2013, 29, 418-429.	9.9	383
2	Cobot programming for collaborative industrial tasks: An overview. <i>Robotics and Autonomous Systems</i> , 2019, 116, 162-180.	5.1	260
3	Collaborative computer-aided design—research and development status. <i>CAD Computer Aided Design</i> , 2005, 37, 931-940.	2.7	185
4	A simulated annealing-based optimization approach for integrated process planning and scheduling. <i>International Journal of Computer Integrated Manufacturing</i> , 2007, 20, 80-95.	4.6	183
5	Hybrid genetic algorithm and simulated annealing approach for the optimization of process plans for prismatic parts. <i>International Journal of Production Research</i> , 2002, 40, 1899-1922.	7.5	176
6	Applications of particle swarm optimisation in integrated process planning and scheduling. <i>Robotics and Computer-Integrated Manufacturing</i> , 2009, 25, 280-288.	9.9	168
7	An adaptive process planning approach of rapid prototyping and manufacturing. <i>Robotics and Computer-Integrated Manufacturing</i> , 2013, 29, 23-38.	9.9	148
8	Computer supported collaborative design: Retrospective and perspective. <i>Computers in Industry</i> , 2008, 59, 855-862.	9.9	135
9	A systematic approach of process planning and scheduling optimization for sustainable machining. <i>Journal of Cleaner Production</i> , 2015, 87, 914-929.	9.3	108
10	Advances in collaborative CAD: the-state-of-the art. <i>CAD Computer Aided Design</i> , 2005, 37, 571-581.	2.7	107
11	Feature-based design in a distributed and collaborative environment. <i>CAD Computer Aided Design</i> , 2004, 36, 775-797.	2.7	105
12	Application of game theory based hybrid algorithm for multi-objective integrated process planning and scheduling. <i>Expert Systems With Applications</i> , 2012, 39, 288-297.	7.6	98
13	Cyber Physical System and Big Data enabled energy efficient machining optimisation. <i>Journal of Cleaner Production</i> , 2018, 187, 46-62.	9.3	97
14	An effective hybrid discrete differential evolution algorithm for the flow shop scheduling with intermediate buffers. <i>Information Sciences</i> , 2011, 181, 668-685.	6.9	94
15	An agent-based approach for integrated process planning and scheduling. <i>Expert Systems With Applications</i> , 2010, 37, 1256-1264.	7.6	91
16	Selective disassembly planning for waste electrical and electronic equipment with case studies on liquid crystal displays. <i>Robotics and Computer-Integrated Manufacturing</i> , 2013, 29, 248-260.	9.9	90
17	An Internet-enabled integrated system for co-design and concurrent engineering. <i>Computers in Industry</i> , 2004, 55, 87-103.	9.9	84
18	State-of-the-art technologies and methodologies for collaborative product development systems. <i>International Journal of Production Research</i> , 2006, 44, 2525-2559.	7.5	80

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19	Recognizing manufacturing features from a design-by-feature model. CAD Computer Aided Design, 2002, 34, 849-868.	2.7	69
20	Disassembly sequence planning using a Simplified Teachingâ€“Learning-Based Optimization algorithm. Advanced Engineering Informatics, 2014, 28, 518-527.	8.0	69
21	Optimisation of integrated process planning and scheduling using a particle swarm optimisation approach. International Journal of Production Research, 2009, 47, 3775-3796.	7.5	64
22	Adaptive tool-path generation of rapid prototyping for complex product models. Journal of Manufacturing Systems, 2011, 30, 154-164.	13.9	64
23	Big Data enabled Intelligent Immune System for energy efficient manufacturing management. Journal of Cleaner Production, 2018, 195, 507-520.	9.3	57
24	Evolving scheduling rules with gene expression programming for dynamic single-machine scheduling problems. International Journal of Advanced Manufacturing Technology, 2010, 50, 729-747.	3.0	55
25	Transfer learning enabled convolutional neural networks for estimating health state of cutting tools. Robotics and Computer-Integrated Manufacturing, 2021, 71, 102145.	9.9	53
26	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
27	A multi-sensor based online tool condition monitoring system for milling process. Procedia CIRP, 2018, 72, 1136-1141.	1.9	50
28	Fog computing and convolutional neural network enabled prognosis for machining process optimization. Journal of Manufacturing Systems, 2019, 52, 32-42.	13.9	50
29	Prediction of the remaining useful life of cutting tool using the Hurst exponent and CNN-LSTM. International Journal of Advanced Manufacturing Technology, 2021, 112, 2277-2299.	3.0	40
30	Thermal error prediction for heavy-duty CNC machines enabled by long short-term memory networks and fog-cloud architecture. Journal of Manufacturing Systems, 2022, 62, 950-963.	13.9	40
31	A hybrid optimization approach for sustainable process planning and scheduling. Integrated Computer-Aided Engineering, 2015, 22, 311-326.	4.6	39
32	Geometric model simplification for distributed CAD. CAD Computer Aided Design, 2004, 36, 809-819.	2.7	36
33	Encryption based partial sharing of CAD models. Integrated Computer-Aided Engineering, 2015, 22, 243-260.	4.6	35
34	Stochastic modeling of dynamic right-sizing for energy-efficiency in cloud data centers. Future Generation Computer Systems, 2015, 48, 82-95.	7.5	34
35	Supervision controller for real-time surface quality assurance in CNC machining using artificial intelligence. Computers and Industrial Engineering, 2019, 127, 158-168.	6.3	33
36	Customized Encryption of Computer Aided Design Models for Collaboration in Cloud Manufacturing Environment. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	2.2	29

#	ARTICLE	IF	CITATIONS
37	A Semantic Information Services Framework for Sustainable WEEE Management Toward Cloud-Based Remanufacturing. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015, 137, .	2.2	29
38	Cutting tool prognostics enabled by hybrid CNN-LSTM with transfer learning. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 817-836.	3.0	28
39	A systematic selective disassembly approach for Waste Electrical and Electronic Equipment with case study on liquid crystal display televisions. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017, 231, 2261-2278.	2.4	27
40	Data-Driven Anomaly Diagnosis for Machining Processes. <i>Engineering</i> , 2019, 5, 646-652.	6.7	27
41	A Web-based service for distributed process planning optimization. <i>Computers in Industry</i> , 2005, 56, 272-288.	9.9	26
42	Disassembly Matrix for Liquid Crystal Displays Televisions. <i>Procedia CIRP</i> , 2013, 11, 357-362.	1.9	26
43	Energy-Efficient machining process analysis and optimisation based on BS EN24T alloy steel as case studies. <i>Robotics and Computer-Integrated Manufacturing</i> , 2019, 58, 1-12.	9.9	26
44	Heterogeneous sensors-based feature optimisation and deep learning for tool wear prediction. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 2651-2675.	3.0	25
45	A 3D simplification algorithm for distributed visualization. <i>Computers in Industry</i> , 2007, 58, 211-226.	9.9	24
46	Lung Resistance Protein and Multidrug Resistance Protein in Non-Small Cell Lung Cancer and Their Clinical Significance. <i>Journal of International Medical Research</i> , 2011, 39, 1693-1700.	1.0	22
47	Game theory-based Cooperation of Process Planning and Scheduling. , 2008, , .		20
48	Service-oriented disassembly sequence planning for electrical and electronic equipment waste. <i>Electronic Commerce Research and Applications</i> , 2016, 20, 59-68.	5.0	20
49	A cloud-terminal-based cyber-physical system architecture for energy efficient machining process optimization. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019, 10, 1049-1064.	4.9	20
50	Use of Single Board Computers as Smart Sensors in the Manufacturing Industry. <i>Procedia Engineering</i> , 2015, 132, 153-159.	1.2	19
51	Microvessel Density and Expression of Thrombospondin-1 in Non-small Cell Lung Cancer and Their Correlation with Clinicopathological Features. <i>Journal of International Medical Research</i> , 2009, 37, 551-556.	1.0	17
52	Adaptive rapid prototyping/manufacturing for functionally graded material-based biomedical models. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 65, 97-113.	3.0	17
53	Development of a WSN based real time energy monitoring platform for industrial applications. , 2015, , .		16
54	Experimental investigation and multi-objective optimization approach for low-carbon milling operation of aluminum. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 2753-2772.	2.1	16

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55	Deep transfer learning based diagnosis for machining process lifecycle. <i>Procedia CIRP</i> , 2020, 90, 642-647.	1.9	15
56	STEP-based integration of feature recognition and design-by-feature for manufacturing applications in a concurrent engineering environment. <i>International Journal of Computer Applications in Technology</i> , 2003, 18, 78.	0.5	14
57	Editorial for the special issue of decision support for sustainable design and manufacturing. <i>Journal of Industrial and Production Engineering</i> , 2015, 32, 1-2.	3.1	14
58	A multi-granularity NC program optimization approach for energy efficient machining. <i>Advances in Engineering Software</i> , 2018, 115, 75-86.	3.8	14
59	Parametric and adaptive encryption of feature-based computer-aided design models for cloud-based collaboration. <i>Integrated Computer-Aided Engineering</i> , 2017, 24, 129-142.	4.6	13
60	iTP-LfD: Improved task parametrised learning from demonstration for adaptive path generation of cobot. <i>Robotics and Computer-Integrated Manufacturing</i> , 2021, 69, 102109.	9.9	13
61	Graph2Seq: Fusion Embedding Learning for Knowledge Graph Completion. <i>IEEE Access</i> , 2019, 7, 157960-157971.	4.2	12
62	Optimised Learning from Demonstrations for Collaborative Robots. <i>Robotics and Computer-Integrated Manufacturing</i> , 2021, 71, 102169.	9.9	12
63	A Q-Learning Based Selective Disassembly Planning Service in the Cloud Based Remanufacturing System for WEEE. , 2014, , .		11
64	A Simplified Teaching-Learning-Based Optimization Algorithm for Disassembly Sequence Planning. , 2013, , .		10
65	Energy Consumption Data Based Machine Anomaly Detection. , 2014, , .		8
66	Adaptive obstacle avoidance in path planning of collaborative robots for dynamic manufacturing. <i>Journal of Intelligent Manufacturing</i> , 2023, 34, 789-807.	7.3	8
67	Sustainable information management for Waste Electrical and Eletronic Equipment. , 2012, , .		7
68	Improving knowledge graph completion via increasing embedding interactions. <i>Applied Intelligence</i> , 2022, 52, 9289-9307.	5.3	7
69	An approach to incremental feature model conversion. <i>International Journal of Advanced Manufacturing Technology</i> , 2007, 32, 99-108.	3.0	6
70	A Distributed Service of Selective Disassembly Planning for Waste Electrical and Electronic Equipment with Case Studies on Liquid Crystal Display. <i>Springer Series in Advanced Manufacturing</i> , 2013, , 23-47.	0.5	6
71	An Internet-enabled integrated system for co-design and concurrent engineering. <i>Computers in Industry</i> , 2004, 55, 87-87.	9.9	5
72	A honey-bee mating optimization approach of collaborative process planning and scheduling for sustainable manufacturing. , 2013, , .		5

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73	An encryption approach for product assembly models. <i>Advanced Engineering Informatics</i> , 2017, 33, 374-387.	8.0	5
74	A Streaming Technology of 3D Design and Manufacturing Visualization Information Sharing for Cloud-Based Collaborative Systems. <i>Springer Series in Advanced Manufacturing</i> , 2013, , 137-163.	0.5	5
75	Tool-paths optimization of rapid prototyping to support product verification and collaboration. , 2011, , .		4
76	An effective multi-swarm collaborative evolutionary algorithm for flexible job shop scheduling problem. , 2011, , .		4
77	An Ecosystem for E-Learning in Mechatronics: The CLEM Project. , 2013, , .		4
78	Customized disassembly and processing of waste electrical and electronic equipment. <i>Manufacturing Letters</i> , 2016, 9, 7-10.	2.2	4
79	Ring Gaussian Mixture Modelling and Regression for collaborative robots. <i>Robotics and Autonomous Systems</i> , 2021, 145, 103864.	5.1	4
80	Key Learning Features as Means for Terrain Classification. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 273-282.	0.6	4
81	Advances in Collaborative CAD: The-State-of-the-Art. <i>Computer-Aided Design and Applications</i> , 2004, 1, 387-396.	0.6	3
82	Design chain management: bridging the gap between engineering and management. <i>Journal of Intelligent Manufacturing</i> , 2013, 24, 541-544.	7.3	3
83	Life Cycle Management of LCD Televisions: A Case Study. , 2014, , 1-28.		3
84	A Web-based Process Planning Optimization System for Distributed Design. <i>Computer-Aided Design and Applications</i> , 2004, 1, 367-376.	0.6	2
85	Multi-granularity partial encryption method of CAD model. , 2013, , .		2
86	A systematic end-of-life management approach for Waste Electrical and Electronic Equipment. , 2015, , .		2
87	Towards a Formal Ontology to Support Interoperability Across Multiple Product Lifecycle Domains. , 2017, , .		2
88	Research on energy consumption and energy efficiency of machine tools: a comprehensive survey. <i>International Journal of Nanomanufacturing</i> , 2018, 14, 140.	0.3	2
89	Intelligent Immune System for Sustainable Manufacturing. , 2018, , .		2
90	Enhance knowledge graph embedding via fake triples. , 2019, , .		2

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91	Secure Sharing of Design Genes in CAD Models for Collaborative Design. , 2019, , .		2
92	An improved approach of task-parameterized learning from demonstrations for cobots in dynamic manufacturing. Journal of Intelligent Manufacturing, 2022, 33, 1503-1519.	7.3	2
93	Multi-agent based integration of process planning and scheduling. , 2009, , .		1
94	The strategies of New Product Design system for Small Series Production. , 2010, , .		1
95	Intelligent interactive system for collaborative green computing. , 2011, , .		1
96	A methodology to estimate power consumption of numerical control machining. , 2013, , .		1
97	Pulse Width Modulation (PWM) Method for Power Components Estimation - Active and Reactive Power Measurement. , 2013, , .		1
98	Operation-effects merging for collaborative design of personalized product. , 2015, , .		1
99	Parametric Encryption of CAD models in Cloud manufacturing environment. , 2016, , .		1
100	Partial encryption of feature-based product models for collaborative development. Robotics and Computer-Integrated Manufacturing, 2020, 63, 101918.	9.9	1
101	Sensitive Information Protection of CAD Model Based on Free-Form Deformation in Collaborative Design. Lecture Notes in Computer Science, 2016, , 465-474.	1.3	1
102	Life Cycle Management of LCD Televisions “ Case Study. , 2015, , 3405-3435.		1
103	A Semantic Information Services Framework for Sustainable WEEE Management Toward Cloud-Based Remanufacturing. , 2019, , 235-257.		1
104	Visualization Models and Technologies for Collaborative Product Development: Status and Promise. , 2006, , .		0
105	The novel design policies for green production. , 2011, , .		0
106	Doing Better Business: Trading a Little Execution Time for High Energy Saving under SLA Constraints. , 2013, , .		0
107	Evaluating part machining processes for low-carbon and energy-efficiency contexts on web. , 2013, , .		0
108	Partial Encryption Based Secure Sharing of CAD Models for Cloud-Based Design. , 2014, , .		0

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109	Solution space generation for disassembly research on liquid crystal displays televisions. , 2014, , .		0
110	Superpixel based semantic segmentation for assistance in varying terrain driving conditions. Advances in Intelligent Systems and Computing, 2015, , 691-698.	0.6	0
111	Reinforcement Learning based Optimization for Cobot's Path Generation in Collaborative Tasks. , 2021, , .		0
112	Improving actor-critic structure by relatively optimal historical information for discrete system. Neural Computing and Applications, 0, , 1.	5.6	0