Lihui Wang

List of Publications by Year
in descending order

493 papers	18,358 citations	13865 67 h-index	19190 118 g-index
531 all docs	531 docs citations	531 times ranked	9602 citing authors

#	Article	IF	Citations
1	Current status and advancement of cyber-physical systems in manufacturing. Journal of Manufacturing Systems, 2015, 37, 517-527.	13.9	704
2	Industry 4.0 and Industry 5.0—Inception, conception and perception. Journal of Manufacturing Systems, 2021, 61, 530-535.	13.9	686
3	Digital Twins and Cyber–Physical Systems toward Smart Manufacturing and Industry 4.0: Correlation and Comparison. Engineering, 2019, 5, 653-661.	6.7	637
4	Enabling technologies and tools for digital twin. Journal of Manufacturing Systems, 2021, 58, 3-21.	13.9	611
5	Cloud-based design and manufacturing: A new paradigm in digital manufacturing and design innovation. CAD Computer Aided Design, 2015, 59, 1-14.	2.7	491
6	Collaborative conceptual design—state of the art and future trends. CAD Computer Aided Design, 2002, 34, 981-996.	2.7	389
7	Reconfigurable manufacturing systems: the state of the art. International Journal of Production Research, 2008, 46, 967-992.	7.5	344
8	Agent-based distributed manufacturing process planning and scheduling: a state-of-the-art survey. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2006, 36, 563-577.	2.9	340
9	Symbiotic human-robot collaborative assembly. CIRP Annals - Manufacturing Technology, 2019, 68, 701-726.	3.6	322
10	Computer-aided process planning — A critical review of recent developments and future trends. International Journal of Computer Integrated Manufacturing, 2011, 24, 1-31.	4.6	287
11	A Java 3d-enabled cyber workspace. Communications of the ACM, 2002, 45, 45-49.	4.5	286
12	Cloud-enabled prognosis for manufacturing. CIRP Annals - Manufacturing Technology, 2015, 64, 749-772.	3.6	281
13	Gesture recognition for human-robot collaboration: A review. International Journal of Industrial Ergonomics, 2018, 68, 355-367.	2.6	272
14	Smart manufacturing process and system automation — A critical review of the standards and envisioned scenarios. Journal of Manufacturing Systems, 2020, 56, 312-325.	13.9	259
15	Cloud manufacturing: key characteristics and applications. International Journal of Computer Integrated Manufacturing, 2017, 30, 501-515.	4.6	232
16	Industrial robotic machining: a review. International Journal of Advanced Manufacturing Technology, 2019, 103, 1239-1255.	3.0	208
17	Machine availability monitoring and machining process planning towards Cloud manufacturing. CIRP Journal of Manufacturing Science and Technology, 2013, 6, 263-273.	4.5	201
18	A review of chatter vibration research in milling. Chinese Journal of Aeronautics, 2019, 32, 215-242.	5.3	197

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19	Outlook on human-centric manufacturing towards Industry 5.0. Journal of Manufacturing Systems, 2022, 62, 612-627.	13.9	185
20	Digital twin-based WEEE recycling, recovery and remanufacturing in the background of Industry 4.0. International Journal of Production Research, 2019, 57, 3892-3902.	7.5	182
21	Scheduling in cloud manufacturing: state-of-the-art and research challenges. International Journal of Production Research, 2019, 57, 4854-4879.	7.5	182
22	Human–robot collaborative assembly in cyber-physical production: Classification framework and implementation. CIRP Annals - Manufacturing Technology, 2017, 66, 5-8.	3.6	175
23	Advances in 3D data acquisition and processing for industrial applications. Robotics and Computer-Integrated Manufacturing, 2010, 26, 403-413.	9.9	165
24	Assembly process planning and its future in collaborative manufacturing: a review. International Journal of Advanced Manufacturing Technology, 2009, 41, 132-144.	3.0	163
25	Manufacturing Service Management in Cloud Manufacturing: Overview and Future Research Directions. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	2.2	163
26	Deep learning-based human motion recognition for predictive context-aware human-robot collaboration. CIRP Annals - Manufacturing Technology, 2018, 67, 17-20.	3.6	160
27	Global production networks: Design and operation. CIRP Annals - Manufacturing Technology, 2019, 68, 823-841.	3.6	156
28	Imbalanced data fault diagnosis of rotating machinery using synthetic oversampling and feature learning. Journal of Manufacturing Systems, 2018, 48, 34-50.	13.9	154
29	A literature survey of the robotic technologies during the COVID-19 pandemic. Journal of Manufacturing Systems, 2021, 60, 823-836.	13.9	152
30	Strategic advantages of interoperability for global manufacturing using CNC technology. Robotics and Computer-Integrated Manufacturing, 2008, 24, 699-708.	9.9	146
31	Human motion prediction for human-robot collaboration. Journal of Manufacturing Systems, 2017, 44, 287-294.	13.9	130
32	Ubiquitous manufacturing system based on Cloud: A robotics application. Robotics and Computer-Integrated Manufacturing, 2017, 45, 116-125.	9.9	129
33	Active collision avoidance for human–robot collaboration driven by vision sensors. International Journal of Computer Integrated Manufacturing, 2017, 30, 970-980.	4.6	126
34	Food supply chain management: systems, implementations, and future research. Industrial Management and Data Systems, 2017, 117, 2085-2114.	3.7	124
35	Optimization of machining processes from the perspective of energy consumption: A case study. Journal of Manufacturing Systems, 2012, 31, 420-428.	13.9	117
36	Big data analytics based fault prediction for shop floor scheduling. Journal of Manufacturing Systems, 2017, 43, 187-194.	13.9	116

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37	A cloud-based approach for WEEE remanufacturing. CIRP Annals - Manufacturing Technology, 2014, 63, 409-412.	3.6	110
38	Safety assurance mechanisms of collaborative robotic systems in manufacturing. Robotics and Computer-Integrated Manufacturing, 2021, 67, 102022.	9.9	110
39	Cloud-based adaptive process planning considering availability and capabilities of machine tools. Journal of Manufacturing Systems, 2016, 39, 1-8.	13.9	105
40	Systematic literature review on augmented reality in smart manufacturing: Collaboration between human and computational intelligence. Journal of Manufacturing Systems, 2021, 61, 696-711.	13.9	103
41	A RFID-enabled positioning system in automated guided vehicle for smart factories. Journal of Manufacturing Systems, 2017, 44, 179-190.	13.9	102
42	Big data analytics for smart factories of the future. CIRP Annals - Manufacturing Technology, 2020, 69, 668-692.	3.6	101
43	Toward human-centric smart manufacturing: A human-cyber-physical systems (HCPS) perspective. Journal of Manufacturing Systems, 2022, 63, 471-490.	13.9	100
44	An â€˜Internet of Thingsâ€™ enabled dynamic optimization method for smart vehicles and logistics tasks. Journal of Cleaner Production, 2019, 215, 806-820.	9.3	99
45	Combined strength of holons, agents and function blocks in cyber-physical systems. Journal of Manufacturing Systems, 2016, 40, 25-34.	13.9	97
46	Recurrent neural network for motion trajectory prediction in human-robot collaborative assembly. CIRP Annals - Manufacturing Technology, 2020, 69, 9-12.	3.6	94
47	Visual Assembling Guidance Using Augmented Reality. Procedia Manufacturing, 2015, 1, 98-109.	1.9	92
48	Remote real-time CNC machining for web-based manufacturing. Robotics and Computer-Integrated Manufacturing, 2004, 20, 563-571.	9.9	91
49	The â€˜Internet of Thingsâ€™ enabled real-time scheduling for remanufacturing of automobile engines. Journal of Cleaner Production, 2018, 185, 562-575.	9.3	90
50	Remote humanâ€“robot collaboration: A cyberâ€“physical system application for hazard manufacturing environment. Journal of Manufacturing Systems, 2020, 54, 24-34.	13.9	89
51	Towards proactive humanâ€“robot collaboration: A foreseeable cognitive manufacturing paradigm. Journal of Manufacturing Systems, 2021, 60, 547-552.	13.9	87
52	Architecture design for distributed process planning. Journal of Manufacturing Systems, 2003, 22, 99-115.	13.9	86
53	Innovative control of assembly systems and lines. CIRP Annals - Manufacturing Technology, 2017, 66, 707-730.	3.6	86
54	Sensorless and adaptive admittance control of industrial robot in physical humanâˆ¼robot interaction. Robotics and Computer-Integrated Manufacturing, 2018, 51, 158-168.	9.9	84

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55	Collision-free human-robot collaboration based on context awareness. Robotics and Computer-Integrated Manufacturing, 2021, 67, 101997.	9.9	84
56	Depth camera based collision avoidance via active robot control. Journal of Manufacturing Systems, 2014, 33, 711-718.	13.9	81
57	From Intelligence Science to Intelligent Manufacturing. Engineering, 2019, 5, 615-618.	6.7	81
58	Simplified and efficient calibration of a mechanistic cutting force model for ball-end milling. International Journal of Machine Tools and Manufacture, 2004, 44, 291-298.	13.4	80
59	Sequencing of interacting prismatic machining features for process planning. Computers in Industry, 2007, 58, 295-303.	9.9	80
60	Logistics-involved QoS-aware service composition in cloud manufacturing with deep reinforcement learning. Robotics and Computer-Integrated Manufacturing, 2021, 67, 101991.	9.9	80
61	DPP: An agent-based approach for distributed process planning. Journal of Intelligent Manufacturing, 2003, 14, 429-439.	7.3	79
62	An IoT-enabled Real-time Machine Status Monitoring Approach for Cloud Manufacturing. Procedia CIRP, 2017, 63, 709-714.	1.9	79
63	Current status of reconfigurable assembly systems. International Journal of Manufacturing Research, 2007, 2, 303.	0.2	78
64	Interaction between value and perceptual salience in value-driven attentional capture. Journal of Vision, 2013, 13, 5-5.	0.3	77
65	Feature-based control and information framework for adaptive and distributed manufacturing in cyber physical systems. Journal of Manufacturing Systems, 2017, 43, 305-315.	13.9	74
66	Support Systems on the Industrial Shop-floors of the Future â€" Operatorsâ€™ Perspective on Augmented Reality. Procedia CIRP, 2016, 44, 108-113.	1.9	73
67	Vision-guided active collision avoidance for human-robot collaborations. Manufacturing Letters, 2013, 1, 5-8.	2.2	71
68	Cloud manufacturing: key issues and future perspectives. International Journal of Computer Integrated Manufacturing, 2019, 32, 858-874.	4.6	71
69	IoT-enabled Smart Factory Visibility and Traceability Using Laser-scanners. Procedia Manufacturing, 2017, 10, 1-14.	1.9	67
70	A Review on Recent Advances in Vision-based Defect Recognition towards Industrial Intelligence. Journal of Manufacturing Systems, 2022, 62, 753-766.	13.9	67
71	A cloud-based production system for information and service integration: an internet of things case study on waste electronics. Enterprise Information Systems, 2017, 11, 952-968.	4.7	65
72	Adaptive tool-path generation of rapid prototyping for complex product models. Journal of Manufacturing Systems, 2011, 30, 154-164.	13.9	64

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73	A review of function blocks for process planning and control of manufacturing equipment. Journal of Manufacturing Systems, 2012, 31, 269-279.	13.9	63
74	Towards Robust Human-Robot Collaborative Manufacturing: Multimodal Fusion. IEEE Access, 2018, 6, 74762-74771.	4.2	63
75	STEP-NC and function blocks for interoperable manufacturing. IEEE Transactions on Automation Science and Engineering, 2006, 3, 297-308.	5.2	61
76	Minimizing Energy Consumption for Robot Arm Movement. Procedia CIRP, 2014, 25, 400-405.	1.9	60
77	Cloud manufacturing â€" a critical review of recent development and future trends. International Journal of Computer Integrated Manufacturing, 0, , 1-34.	4.6	60
78	Overview of Human-Robot Collaboration in Manufacturing. Lecture Notes in Mechanical Engineering, 2020, , 15-58.	0.4	58
79	Cloud Manufacturing: Current Trends and Future Implementations. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	2.2	57
80	A futuristic perspective on human-centric assembly. Journal of Manufacturing Systems, 2022, 62, 199-201.	13.9	57
81	Systematic review on tool breakage monitoring techniques in machining operations. International Journal of Machine Tools and Manufacture, 2022, 176, 103882.	13.4	57
82	Optimal design of reconfigurable parallel machining systems. Robotics and Computer-Integrated Manufacturing, 2009, 25, 951-961.	9.9	56
83	Big Data Driven Edge-Cloud Collaboration Architecture for Cloud Manufacturing: A Software Defined Perspective. IEEE Access, 2020, 8, 45938-45950.	4.2	56
84	iShopFloor : An Internet-Enabled Agent-Based Intelligent Shop Floor. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2005, 35, 371-381.	2.9	54
85	A novel energy demand modelling approach for CNC machining based on function blocks. Journal of Manufacturing Systems, 2014, 33, 196-208.	13.9	53
86	Distributed Device Networks With Security Constraints. IEEE Transactions on Industrial Informatics, 2005, 1, 217-225.	11.3	52
87	Enriched machining feature-based reasoning for generic machining process sequencing. International Journal of Production Research, 2006, 44, 1479-1501.	7.5	52
88	Cloud-based Manufacturing: Old Wine in New Bottles?. Procedia CIRP, 2014, 17, 94-99.	1.9	52
89	Robot learning towards smart robotic manufacturing: A review. Robotics and Computer-Integrated Manufacturing, 2022, 77, 102360.	9.9	52
90	Energy Modeling of Machine Tools for Optimization of Machine Setups. IEEE Transactions on Automation Science and Engineering, 2012, 9, 607-613.	5.2	50

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91	Cloud-enhanced predictive maintenance. International Journal of Advanced Manufacturing Technology, 2018, 99, 5-13.	3.0	50
92	An overview of function block enabled adaptive process planning for machining. Journal of Manufacturing Systems, 2015, 35, 10-25.	13.9	49
93	Toward cognitive predictive maintenance: A survey of graph-based approaches. Journal of Manufacturing Systems, 2022, 64, 107-120.	13.9	49
94	Embedding a process plan in function blocks for adaptive machining. CIRP Annals - Manufacturing Technology, 2010, 59, 433-436.	3.6	48
95	IoT-enabled Dynamic Optimisation for Sustainable Reverse Logistics. Procedia CIRP, 2018, 69, 662-667.	1.9	48
96	Variable-focus lens with 30‰mm optical aperture based on liquid–membrane–liquid structure. Applied Physics Letters, 2013, 102, .	3.3	46
97	An AR-based Worker Support System for Human-Robot Collaboration. Procedia Manufacturing, 2017, 11, 22-30.	1.9	46
98	Wise-ShopFloor: An Integrated Approach for Web-Based Collaborative Manufacturing. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2008, 38, 562-573.	2.9	45
99	Reusability based on Life Cycle Sustainability Assessment: Case Study on WEEE. Procedia CIRP, 2014, 15, 473-478.	1.9	45
100	Generic machining process sequencing through a revised enriched machining feature concept. Journal of Manufacturing Systems, 2015, 37, 564-575.	13.9	45
101	Human-machine Collaboration in Virtual Reality for Adaptive Production Engineering. Procedia Manufacturing, 2017, 11, 1279-1287.	1.9	45
102	Collaborative robot monitoring and control for enhanced sustainability. International Journal of Advanced Manufacturing Technology, 2015, 81, 1433-1445.	3.0	44
103	Symbiotic human–robot collaborative approach for increased productivity and enhanced safety in the aerospace manufacturing industry. International Journal of Advanced Manufacturing Technology, 2020, 106, 851-863.	3.0	43
104	Sensorless force estimation for industrial robots using disturbance observer and neural learning of friction approximation. Robotics and Computer-Integrated Manufacturing, 2021, 71, 102168.	9.9	43
105	A function block based cyber-physical production system for physical human–robot interaction. Journal of Manufacturing Systems, 2018, 48, 12-23.	13.9	42
106	Brainwaves driven human-robot collaborative assembly. CIRP Annals - Manufacturing Technology, 2018, 67, 13-16.	3.6	42
107	Toward Proactive Human–Robot Collaborative Assembly: A Multimodal Transfer-Learning-Enabled Action Prediction Approach. IEEE Transactions on Industrial Electronics, 2022, 69, 8579-8588.	7.9	42
108	Wise-ShopFloor: A Web-Based and Sensor-Driven e-Shop Floor*. Journal of Computing and Information Science in Engineering, 2004, 4, 56-60.	2.7	41

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109	Towards a cooperative distributed manufacturing management framework. Computers in Industry, 2005, 56, 71-84.	9.9	41
110	GA-based adaptive setup planning toward process planning and scheduling integration. International Journal of Production Research, 2009, 47, 2745-2766.	7.5	41
111	Human-robot Collaboration Demonstrator Combining Speech Recognition and Haptic Control. Procedia CIRP, 2017, 63, 396-401.	1.9	41
112	Deep Learning-based Multimodal Control Interface for Human-Robot Collaboration. Procedia CIRP, 2018, 72, 3-8.	1.9	41
113	A big data analytics based machining optimisation approach. Journal of Intelligent Manufacturing, 2019, 30, 1483-1495.	7.3	41
114	Digital twin enhanced fault prediction for the autoclave with insufficient data. Journal of Manufacturing Systems, 2021, 60, 350-359.	13.9	41
115	An overview of distributed process planning and its integration with scheduling. International Journal of Computer Applications in Technology, 2006, 26, 3.	0.5	40
116	Semantic Framework for Predictive Maintenance in a Cloud Environment. Procedia CIRP, 2017, 62, 583-588.	1.9	40
117	Parallel Kinematic Machines: Design, Analysis and Simulation in an Integrated Virtual Environment. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 580-588.	2.9	39
118	Dynamic Operator Instructions Based on Augmented Reality and Rule-based Expert Systems. Procedia CIRP, 2016, 41, 346-351.	1.9	39
119	Remote robotic assembly guided by 3D models linking to a real robot. CIRP Annals - Manufacturing Technology, 2014, 63, 1-4.	3.6	38
120	Web-based and agent-based approaches for collaborative product design: an overview. International Journal of Computer Applications in Technology, 2003, 16, 103.	0.5	37
121	From Cloud manufacturing to Cloud remanufacturing: A Cloud-based approach for WEEE recovery. Manufacturing Letters, 2014, 2, 91-95.	2.2	37
122	Internet of things (IoT) and big data analytics (BDA) for digital manufacturing (DM). International Journal of Production Research, 2023, 61, 4004-4021.	7.5	37
123	Condition monitoring towards energy-efficient manufacturing: a review. International Journal of Advanced Manufacturing Technology, 2017, 91, 3395-3415.	3.0	36
124	Multi-agent-based scheduling in cloud manufacturing with dynamic task arrivals. Procedia CIRP, 2018, 72, 953-960.	1.9	36
125	Cloud manufacturing: latest advancements and future trends. Procedia Manufacturing, 2018, 25, 62-73.	1.9	35
126	A review on cutting tool technology in machining of Ni-based superalloys. International Journal of Advanced Manufacturing Technology, 2020, 110, 2863-2879.	3.0	35

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127	Humans Are Not Machines—Anthropocentric Human–Machine Symbiosis for Ultra-Flexible Smart Manufacturing. Engineering, 2021, 7, 734-737.	6.7	35
128	A visual reasoning-based approach for mutual-cognitive human-robot collaboration. CIRP Annals - Manufacturing Technology, 2022, 71, 377-380.	3.6	35
129	ASP: An Adaptive Setup Planning Approach for Dynamic Machine Assignments. IEEE Transactions on Automation Science and Engineering, 2010, 7, 2-14.	5.2	34
130	Integrated design-to-control approach for holonic manufacturing systems. Robotics and Computer-Integrated Manufacturing, 2001, 17, 159-167.	9.9	33
131	Designing function blocks for distributed process planning and adaptive control. Engineering Applications of Artificial Intelligence, 2009, 22, 1127-1138.	8.1	33
132	Reward breaks through center–surround inhibition via anterior insula. Human Brain Mapping, 2015, 36, 5233-5251.	3.6	33
133	Assessing Instructions in Augmented Reality for Human-robot Collaborative Assembly by Using Demonstrators. Procedia CIRP, 2017, 63, 89-94.	1.9	33
134	Design of adaptive function blocks for dynamic assembly planning and control. Journal of Manufacturing Systems, 2008, 27, 45-51.	13.9	32
135	Adaptive setup planning of prismatic parts for machine tools with varying configurations. International Journal of Production Research, 2008, 46, 571-594.	7.5	32
136	Dynamic feature based adaptive process planning for energy-efficient NC machining. CIRP Annals - Manufacturing Technology, 2017, 66, 441-444.	3.6	32
137	A machine learning based energy efficient trajectory planning approach for industrial robots. Procedia CIRP, 2019, 81, 429-434.	1.9	32
138	A multi-agent architecture for scheduling in platform-based smart manufacturing systems. Frontiers of Information Technology and Electronic Engineering, 2019, 20, 1465-1492.	2.6	32
139	Sensorless haptic control for human-robot collaborative assembly. CIRP Journal of Manufacturing Science and Technology, 2021, 32, 132-144.	4.5	32
140	Realizing holonic control with function blocks. Integrated Computer-Aided Engineering, 2001, 8, 81-93.	4.6	31
141	An improved low-optical-power variable focus lens with a large aperture. Optics Express, 2014, 22, 19448.	3.4	31
142	Vibration fault features of planetary gear train with cracks under time-varying flexible transfer functions. Mechanism and Machine Theory, 2021, 158, 104237.	4.5	31
143	Digital twin-enabled advance execution for human-robot collaborative assembly. CIRP Annals - Manufacturing Technology, 2022, 71, 25-28.	3.6	31
144	Manufacturing System on the Cloud: A Case Study on Cloud-based Process Planning. Procedia CIRP, 2017, 63, 39-45.	1.9	30

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145	Towards IoT-enabled dynamic service optimal selection in multiple manufacturing clouds. Journal of Manufacturing Systems, 2020, 56, 213-226.	13.9	30
146	Cloud-Based Cyber-Physical Systems in Manufacturing. , 2018, , .		30
147	An Integrated Cyber-Physical System for Cloud Manufacturing. , 2014, , .		29
148	A Semantic Information Services Framework for Sustainable WEEE Management Toward Cloud-Based Remanufacturing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	2.2	29
149	Feature extraction of milling chatter based on optimized variational mode decomposition and multi-scale permutation entropy. International Journal of Advanced Manufacturing Technology, 2021, 114, 2849-2862.	3.0	29
150	A data-driven approach for tool wear recognition and quantitative prediction based on radar map feature fusion. Measurement: Journal of the International Measurement Confederation, 2021, 185, 110072.	5.0	28
151	Integrating Java 3D model and sensor data for remote monitoring and control. Robotics and Computer-Integrated Manufacturing, 2003, 19, 13-19.	9.9	27
152	A sensor-driven 3D model-based approach to remote real-time monitoring. CIRP Annals - Manufacturing Technology, 2011, 60, 493-496.	3.6	27
153	Adaptive instructions to novice shop-floor operators using Augmented Reality. Journal of Industrial and Production Engineering, 2017, 34, 362-374.	3.1	27
154	Operators perspective on augmented reality as a support tool in engine assembly. Procedia CIRP, 2018, 72, 45-50.	1.9	27
155	An enriched machining feature based approach to cutting tool selection. International Journal of Computer Integrated Manufacturing, 2018, 31, 1-10.	4.6	26
156	Human-robot collaboration â€" towards new metrics for selection of communication technologies. Procedia CIRP, 2018, 72, 123-128.	1.9	26
157	Conceptual development of an enhanced tripod mechanism for machine tool. Robotics and Computer-Integrated Manufacturing, 2005, 21, 318-327.	9.9	25
158	Robotic assembly planning and control with enhanced adaptability through function blocks. International Journal of Advanced Manufacturing Technology, 2015, 77, 705-715.	3.0	25
159	A passive RFID tag-based locating and navigating approach for automated guided vehicle. Computers and Industrial Engineering, 2018, 125, 628-636.	6.3	25
160	Towards online reinforced learning of assembly sequence planning with interactive guidance systems for industry 4.0 adaptive manufacturing. Journal of Manufacturing Systems, 2021, 60, 22-34.	13.9	25
161	Embedding machining features in function blocks for distributed process planning. International Journal of Computer Integrated Manufacturing, 2006, 19, 443-452.	4.6	24
162	Integrating cross-sectional imaging based reverse engineering with rapid prototyping. Computers in Industry, 2006, 57, 131-140.	9.9	24

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163	Experimental evaluation of polycrystalline diamond (PCD) tool geometries at high feed rate in milling of titanium alloy TC11. International Journal of Advanced Manufacturing Technology, 2015, 77, 1549-1555.	3.0	24
164	Cloud-edge-device collaboration mechanisms of deep learning models for smart robots in mass personalization. Robotics and Computer-Integrated Manufacturing, 2022, 77, 102351.	9.9	24
165	Machine-vision-based surface finish inspection for cutting tool replacement in production. International Journal of Production Research, 2004, 42, 2279-2287.	7.5	23
166	A function block based approach for increasing adaptability of assembly planning and control. International Journal of Production Research, 2011, 49, 4903-4924.	7.5	23
167	Closed-loop augmented reality towards accurate human-robot collaboration. CIRP Annals - Manufacturing Technology, 2020, 69, 425-428.	3.6	23
168	Intelligent Manufacturing Systems: A Review. International Journal of Mechanical Engineering and Robotics Research, 2016, 7, 324-330.	1.0	23
169	Contact-less and Programming-less Human-Robot Collaboration. Procedia CIRP, 2013, 7, 545-550.	1.9	22
170	Research on coordinated development between metropolitan economy and logistics using big data and Haken model. International Journal of Production Research, 2019, 57, 1176-1189.	7.5	22
171	Logistics-involved service composition in a dynamic cloud manufacturing environment: A DDPG-based approach. Robotics and Computer-Integrated Manufacturing, 2022, 76, 102323.	9.9	22
172	PKM capabilities and applications exploration in a collaborative virtual environment. Robotics and Computer-Integrated Manufacturing, 2006, 22, 384-395.	9.9	21
173	A novel function block based integration approach to process planning and scheduling with execution control. International Journal of Manufacturing Technology and Management, 2007, 11, 228.	0.1	21
174	Dynamic control model of a cobot with three omni-wheels. Robotics and Computer-Integrated Manufacturing, 2010, 26, 558-563.	9.9	21
175	Energy-efficient robot applications towards sustainable manufacturing. International Journal of Computer Integrated Manufacturing, 2018, 31, 692-700.	4.6	21
176	Symbiotic human-robot collaboration: multimodal control using function blocks. Procedia CIRP, 2020, 93, 1188-1193.	1.9	21
177	Reward breaks through the inhibitory region around attentional focus. Journal of Vision, 2014, 14, 2-2.	0.3	20
178	Service-oriented disassembly sequence planning for electrical and electronic equipment waste. Electronic Commerce Research and Applications, 2016, 20, 59-68.	5.0	20
179	Combining Dynamic Machining Feature With Function Blocks for Adaptive Machining. IEEE Transactions on Automation Science and Engineering, 2016, 13, 828-841.	5.2	20
180	A Jointed Signal Analysis and Convolutional Neural Network Method for Fault Diagnosis. Procedia CIRP, 2018, 72, 1084-1087.	1.9	20

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181	Iteration based calculation of position and orientation of grinding wheel for solid cutting tool flute grinding. Journal of Manufacturing Processes, 2018, 36, 209-215.	5.9	20
182	Cloud-DPP for distributed process planning of mill-turn machining operations. Robotics and Computer-Integrated Manufacturing, 2017, 47, 76-84.	9.9	19
183	Energy-Efficient Robot Configuration for Assembly. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, .	2.2	19
184	Dielectric-elastomer-based fabrication method for varifocal microlens array. Optics Express, 2017, 25, 31708.	3.4	19
185	Interoperability in cloud manufacturing: a case study on private cloud structure for SMEs. International Journal of Computer Integrated Manufacturing, 2018, 31, 653-663.	4.6	19
186	Energy-efficient trajectory planning for an industrial robot using a multi-objective optimisation approach. Procedia Manufacturing, 2018, 25, 517-525.	1.9	19
187	Function block-based closed-loop adaptive machining for assembly interfaces of large-scale aircraft components. Robotics and Computer-Integrated Manufacturing, 2020, 66, 101994.	9.9	19
188	Transfer Learning-enabled Action Recognition for Human-robot Collaborative Assembly. Procedia CIRP, 2021, 104, 1795-1800.	1.9	19
189	A reachability based approach for machining feature sequencing. Journal of Manufacturing Systems, 2016, 40, 96-104.	13.9	18
190	Reward enhances cross‐modal conflict control in object categorization: Electrophysiological evidence. Psychophysiology, 2018, 55, e13214.	2.4	18
191	Eddy Current-Based Vibration Suppression for Finish Machining of Assembly Interfaces of Large Aircraft Vertical Tail. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	2.2	18
192	Function block-based human-robot collaborative assembly driven by brainwaves. CIRP Annals - Manufacturing Technology, 2021, 70, 5-8.	3.6	18
193	Digital twin data: methods and key technologies. Digital Twin, 0, 1, 2.	0.0	18
194	Improved control and simulation models of a tricycle collaborative robot. Journal of Intelligent Manufacturing, 2008, 19, 715-722.	7.3	17
195	Automatic work objects calibration via a global‐local camera system. Robotics and Computer-Integrated Manufacturing, 2014, 30, 678-683.	9.9	17
196	Optimal shape morphing control of 4D printed shape memory polymer based on reinforcement learning. Robotics and Computer-Integrated Manufacturing, 2022, 73, 102209.	9.9	17
197	A machining accuracy informed adaptive positioning method for finish machining of assembly interfaces of large-scale aircraft components. Robotics and Computer-Integrated Manufacturing, 2021, 67, 102021.	9.9	16
198	Auction-based cloud service allocation and sharing for logistics product service system. Journal of Cleaner Production, 2021, 278, 123881.	9.3	16

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