Yuqian Lu

List of Publications by Year in descending order

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87 papers	5,463 citations	109137 35 h-index	85405 71 g-index
88 all docs	88 docs citations	88 times ranked	3081 citing authors

#	Article	IF	Citations
1	Semantic-aware event link reasoning over industrial knowledge graph embedding time series data. International Journal of Production Research, 2023, 61, 4117-4134.	4.9	22
2	An influence modelling and analysis method of reducing carbon emissions for mould forming processes in patternless sand casting. International Journal of Production Research, 2023, 61, 1624-1641.	4.9	4
3	3DSMDA-Net: An improved 3DCNN with separable structure and multi-dimensional attention for welding status recognition. Journal of Manufacturing Systems, 2022, 62, 811-822.	7.6	16
4	Service-oriented industrial internet of things gateway for cloud manufacturing. Robotics and Computer-Integrated Manufacturing, 2022, 73, 102217.	6.1	53
5	An automatic method for constructing machining process knowledge base from knowledge graph. Robotics and Computer-Integrated Manufacturing, 2022, 73, 102222.	6.1	45
6	Establishing a reliable mechanism model of the digital twin machining system: An adaptive evaluation network approach. Journal of Manufacturing Systems, 2022, 62, 390-401.	7.6	25
7	Dynamic inventory replenishment strategy for aerospace manufacturing supply chain: combining reinforcement learning and multi-agent simulation. International Journal of Production Research, 2022, 60, 4117-4136.	4.9	13
8	Special issue on computational intelligence-based modeling, control and estimation in modern mechatronic systems. Neural Computing and Applications, 2022, 34, 5011-5013.	3.2	0
9	Outlook on human-centric manufacturing towards Industry 5.0. Journal of Manufacturing Systems, 2022, 62, 612-627.	7.6	185
10	A Knowledge-enriched Framework for Life Cycle Assessment in Manufacturing. Procedia CIRP, 2022, 105, 55-60.	1.0	3
11	Energy-Saving Oriented Manufacturing Workshop Facility Layout: A Solution Approach Using Multi-Objective Particle Swarm Optimization. Sustainability, 2022, 14, 2788.	1.6	8
12	MES Dynamic interoperability for SMEs in the Factory of the Future perspective. Procedia CIRP, 2022, 107, 1329-1335.	1.0	3
13	Multi-Agent Reinforcement Learning for Real-Time Dynamic Production Scheduling in a Robot Assembly Cell. IEEE Robotics and Automation Letters, 2022, 7, 7684-7691.	3.3	19
14	Adaptive reconstruction of digital twins for machining systems: A transfer learning approach. Robotics and Computer-Integrated Manufacturing, 2022, 78, 102390.	6.1	40
15	Digital twin modeling method based on biomimicry for machining aerospace components. Journal of Manufacturing Systems, 2021, 58, 180-195.	7.6	151
16	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.	6.1	16
17	A big data-driven framework for sustainable and smart additive manufacturing. Robotics and Computer-Integrated Manufacturing, 2021, 67, 102026.	6.1	159
18	Digital Twin as a Service (DTaaS) in Industry 4.0: An Architecture Reference Model. Advanced Engineering Informatics, 2021, 47, 101225.	4.0	283

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19	A hybrid 3D feature recognition method based on rule and graph. International Journal of Computer Integrated Manufacturing, 2021, 34, 257-281.	2.9	16
20	Machining process-oriented monitoring method based on digital twin via augmented reality. International Journal of Advanced Manufacturing Technology, 2021, 113, 3491-3508.	1.5	39
21	Digital Twin-driven online anomaly detection for an automation system based on edge intelligence. Journal of Manufacturing Systems, 2021, 59, 138-150.	7.6	73
22	Framework of automated value stream mapping for lean production under the Industry 4.0 paradigm. Journal of Zhejiang University: Science A, 2021, 22, 382-395.	1.3	23
23	Industrial Internet of Things enabled supply-side energy modelling for refined energy management in aluminium extrusions manufacturing. Journal of Cleaner Production, 2021, 301, 126882.	4.6	17
24	Multi-Agent-Based Self-Organizing Manufacturing Network Towards Mass Personalization. , 2021, , .		1
25	Humans Are Not Machinesâ€"Anthropocentric Humanâ€"Machine Symbiosis for Ultra-Flexible Smart Manufacturing. Engineering, 2021, 7, 734-737.	3.2	35
26	A digital twin-driven human-robot collaborative assembly approach in the wake of COVID-19. Journal of Manufacturing Systems, 2021, 60, 837-851.	7.6	54
27	Self-organizing manufacturing network: A paradigm towards smart manufacturing in mass personalization. Journal of Manufacturing Systems, 2021, 60, 35-47.	7.6	54
28	An automatic machining process decision-making system based on knowledge graph. International Journal of Computer Integrated Manufacturing, 2021, 34, 1348-1369.	2.9	14
29	A novel knowledge graph-based optimization approach for resource allocation in discrete manufacturing workshops. Robotics and Computer-Integrated Manufacturing, 2021, 71, 102160.	6.1	62
30	Multi-scale evolution mechanism and knowledge construction of a digital twin mimic model. Robotics and Computer-Integrated Manufacturing, 2021, 71, 102123.	6.1	39
31	Isometric-Based Approach for Detecting Localized Muscular Fatigue during Complex Dynamic Manufacturing Operations. , 2021, , .		2
32	An adaptive evolutionary framework for the decision-making models of digital twin machining system. , 2021, , .		1
33	Industry 4.0 and Industry 5.0â€"Inception, conception and perception. Journal of Manufacturing Systems, 2021, 61, 530-535.	7.6	686
34	An end-to-end tabular information-oriented causality event evolutionary knowledge graph for manufacturing documents. Advanced Engineering Informatics, 2021, 50, 101441.	4.0	28
35	Digital Twin-driven smart manufacturing: Connotation, reference model, applications and research issues. Robotics and Computer-Integrated Manufacturing, 2020, 61, 101837.	6.1	712
36	Decentralized coordination of autonomous AGVs for flexible factory automation in the context of Industry 4.0. , 2020, , .		6

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37	Machine Learning to Empower a Cyber-Physical Machine Tool. , 2020, , .		1
38	Robotic technologies for on-site building construction: A systematic review. Journal of Building Engineering, 2020, 32, 101584.	1.6	73
39	A Reference Human-centric Architecture Model: a skill-based approach for education of future workforce. Procedia Manufacturing, 2020, 48, 1094-1101.	1.9	6
40	A Closed-Loop Context-Aware Framework for Sustainable Smart PSS Development. , 2020, , .		3
41	Human Capital 4.0: a workforce competence typology for Industry 4.0. Journal of Manufacturing Technology Management, 2020, 31, 687-703.	3.3	114
42	Human Cyber-Physical Systems: A skill-based correlation between humans and machines. , 2020, , .		7
43	A Smart User Authentication Approach using Sensing Seat. , 2020, , .		2
44	A CNN-Based Adaptive Surface Monitoring System for Fused Deposition Modeling. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2287-2296.	3.7	51
45	Smart manufacturing process and system automation â€“ A critical review of the standards and envisioned scenarios. Journal of Manufacturing Systems, 2020, 56, 312-325.	7.6	259
46	Experimental Investigation of the Surface Roughness of Finish-Machined High-Volume-Fraction SiCp/Al Composites. Arabian Journal for Science and Engineering, 2020, 45, 5399-5406.	1.7	12
47	IoT-enabled smart appliances under industry 4.0: A case study. Advanced Engineering Informatics, 2020, 43, 101043.	4.0	183
48	Multi-objective parameter optimization to support energy-efficient peck deep-hole drilling processes with twist drills. International Journal of Advanced Manufacturing Technology, 2020, 106, 4913-4932.	1.5	9
49	A state-of-the-art review on energy consumption and quality characteristics in metal additive manufacturing processes. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	23
50	Semantic communications between distributed cyber-physical systems towards collaborative automation for smart manufacturing. Journal of Manufacturing Systems, 2020, 55, 348-359.	7.6	52
51	Function block-based closed-loop adaptive machining for assembly interfaces of large-scale aircraft components. Robotics and Computer-Integrated Manufacturing, 2020, 66, 101994.	6.1	19
52	Industrial smart productâ€service system development for lifecycle sustainability concerns. IET Collaborative Intelligent Manufacturing, 2020, 2, 197-201.	1.9	9
53	Smart manufacturing based on Digital Twin technologies. , 2020, , 77-122.		4
54	Automatic Extraction of Engineering Rules From Unstructured Text: A Natural Language Processing Approach. Journal of Computing and Information Science in Engineering, 2020, 20, .	1.7	11

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55	Digital Thread Enabled Manufacturing Automation Towards Mass Personalization. , 2020, , .		5
56	A Reconfigurable Jig Assistant Assembly System Based on Wearable Devices. , 2020, , .		0
57	Standards for Smart Manufacturing: A review. , 2019, , .		8
58	A Cyber-Physical Machine Tools Platform using OPC UA and MTConnect. Journal of Manufacturing Systems, 2019, 51, 61-74.	7.6	157
59	Energy-efficient cyber-physical production network: Architecture and technologies. Computers and Industrial Engineering, 2019, 129, 56-66.	3.4	52
60	An Improved Scheduling Approach for Minimizing Total Energy Consumption and Makespan in a Flexible Job Shop Environment. Sustainability, 2019, 11, 179.	1.6	36
61	Cloud-based manufacturing equipment and big data analytics to enable on-demand manufacturing services. Robotics and Computer-Integrated Manufacturing, 2019, 57, 92-102.	6.1	202
62	Energy modeling and a method for reducing energy loss due to cutting load during machining operations. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2019, 233, 699-710.	1.5	22
63	ManuService ontology: a product data model for service-oriented business interactions in a cloud manufacturing environment. Journal of Intelligent Manufacturing, 2019, 30, 317-334.	4.4	72
64	Influence of energy density on energy demand and porosity of 316L stainless steel fabricated by selective laser melting. International Journal of Precision Engineering and Manufacturing - Green Technology, 2018, 5, 55-62.	2.7	92
65	Manufacturing service reliability assessment in cloud manufacturing. Procedia CIRP, 2018, 72, 940-946.	1.0	15
66	Minimising Non-Processing Energy Consumption and Tardiness Fines in a Mixed-Flow Shop. Energies, 2018, 11, 3382.	1.6	10
67	Resource virtualization: A core technology for developing cyber-physical production systems. Journal of Manufacturing Systems, 2018, 47, 128-140.	7.6	140
68	Design Method and Characteristics Study on Actuator of Giant Magnetostrictive Harmonic Motor. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2018, 54, 204.	0.7	3
69	A system framework for OKP product planning in a cloud-based design environment. Robotics and Computer-Integrated Manufacturing, 2017, 45, 73-85.	6.1	33
70	Minimising the machining energy consumption of a machine tool by sequencing the features of a part. Energy, 2017, 121, 292-305.	4.5	90
71	A semantic web-based framework for service composition in a cloud manufacturing environment. Journal of Manufacturing Systems, 2017, 42, 69-81.	7.6	114
72	Energy consumption monitoring for the order fulfilment in a ubiquitous manufacturing environment. International Journal of Advanced Manufacturing Technology, 2017, 89, 3087-3100.	1.5	15

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73	An interoperable energy consumption analysis system for CNC machining. Journal of Cleaner Production, 2017, 140, 1828-1841.	4.6	39
74	A method for minimizing the energy consumption of machining system: integration of process planning and scheduling. Journal of Cleaner Production, 2016, 137, 1647-1662.	4.6	95
75	Process and Production Planning in a Cloud Manufacturing Environment. , 2015, , .		8
76	Protecting Intellectual Property in a Cloud Manufacturing Environment: Requirements and Strategies. IFIP Advances in Information and Communication Technology, 2015, , 404-411.	0.5	2
77	Computer-Integrated Manufacturing, Cyber-Physical Systems and Cloud Manufacturing â€“ Concepts and relationships. Manufacturing Letters, 2015, 6, 5-9.	1.1	110
78	Resource Utilization in Cloud Manufacturing â€“ An Energy Perspective. IFIP Advances in Information and Communication Technology, 2015, , 379-387.	0.5	1
79	Energy consumption evaluation for sustainable manufacturing: A feature-based approach. , 2014, , .		4
80	Cloud manufacturing for a service-oriented paradigm shift. , 2014, , .		2
81	A novel energy demand modelling approach for CNC machining based on function blocks. Journal of Manufacturing Systems, 2014, 33, 196-208.	7.6	53
82	A holistic approach to achieving energy efficiency for interoperable machining systems. International Journal of Sustainable Engineering, 2014, 7, 111-129.	1.9	15
83	Energy-efficient machining systems: a critical review. International Journal of Advanced Manufacturing Technology, 2014, 72, 1389-1406.	1.5	124
84	Development of a Hybrid Manufacturing Cloud. Journal of Manufacturing Systems, 2014, 33, 551-566.	7.6	165
85	Ontology for manufacturing resources in a cloud environment. International Journal of Manufacturing Research, 2014, 9, 448.	0.1	22
86	Tool Selection: A Cloud-Based Approach. Lecture Notes in Electrical Engineering, 2014, , 237-245.	0.3	5
87	A New Paradigm Shift for Manufacturing Businesses. , 2013, , .		5