

# Jiewu Leng

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107 papers	2,736 citations	27 h-index	50 g-index
118 ext. papers	3,696 ext. citations	4.2 avg, IF	6.25 L-index

#	Paper	IF	Citations
107	An iteratively doubling local search for the two-dimensional irregular bin packing problem with limited rotations. <i>Computers and Operations Research</i> , <b>2022</b> , 137, 105550	4.6	2
106	Bi-level artificial intelligence model for risk classification of acute respiratory diseases based on Chinese clinical data.. <i>Applied Intelligence</i> , <b>2022</b> , 1-18	4.9	1
105	Cloud-edge orchestration-based bi-level autonomous process control for mass individualization of rapid printed circuit boards prototyping services. <i>Journal of Manufacturing Systems</i> , <b>2022</b> , 63, 143-161	9.1	2
104	Combining the strength of centralized control and distributed autonomy for crowdsourcing design: An integrated model of Blackboard and Bayesian network. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2021</b> , 235, 1084-1097	2.4	3
103	A Digital Twin-Oriented Lightweight Approach for 3D Assemblies. <i>Machines</i> , <b>2021</b> , 9, 231	2.9	2
102	Deep learning and complex network theory based analysis on socialized manufacturing resources utilisations and an application case study. <i>Concurrent Engineering Research and Applications</i> , <b>2021</b> , 29, 236-248	1.7	3
101	Enhanced agents in shared factory: Enabling high-efficiency self-organization and sustainability of the shared manufacturing resources. <i>Journal of Cleaner Production</i> , <b>2021</b> , 292, 126020	10.3	9
100	Digital Twin-Driven Rapid Customized Design of Board-Type Furniture Production Line. <i>Journal of Computing and Information Science in Engineering</i> , <b>2021</b> , 21,	2.4	4
99	Algorithms for the variable-sized bin packing problem with time windows. <i>Computers and Industrial Engineering</i> , <b>2021</b> , 155, 107175	6.4	4
98	A cyber-physical production monitoring service system for energy-aware collaborative production monitoring in a smart shop floor. <i>Journal of Cleaner Production</i> , <b>2021</b> , 297, 126599	10.3	5
97	A matrix analytic approach for Bayesian network modeling and inference of a manufacturing system. <i>Journal of Manufacturing Systems</i> , <b>2021</b> , 60, 202-213	9.1	1
96	Resilience dynamics modeling and control for a reconfigurable electronic assembly line under spatio-temporal disruptions. <i>Journal of Manufacturing Systems</i> , <b>2021</b> , 60, 852-863	9.1	5
95	Digital twin-based designing of the configuration, motion, control, and optimization model of a flow-type smart manufacturing system. <i>Journal of Manufacturing Systems</i> , <b>2021</b> , 58, 52-64	9.1	92
94	A loosely-coupled deep reinforcement learning approach for order acceptance decision of mass-individualized printed circuit board manufacturing in industry 4.0. <i>Journal of Cleaner Production</i> , <b>2021</b> , 280, 124405	10.3	19
93	Blockchain Security: A Survey of Techniques and Research Directions. <i>IEEE Transactions on Services Computing</i> , <b>2021</b> , 1-1	4.8	17
92	Modeling of Machining Errors Accumulation Driven by RFID Graphical Deduction Computing in Multistage Machining Processes. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 3971-3981	11.9	
91	Digital twins-based remote semi-physical commissioning of flow-type smart manufacturing systems.. <i>Journal of Cleaner Production</i> , <b>2021</b> , 306, 127278	10.3	23

90	Digital twins-based smart manufacturing system design in Industry 4.0: A review. <i>Journal of Manufacturing Systems</i> , <b>2021</b> , 60, 119-137	9.1	70
89	Digital Twins-Based Smart Design and Control of Ultra-Precision Machining: A Review. <i>Symmetry</i> , <b>2021</b> , 13, 1717	2.7	2
88	Blockchain-Secured Smart Manufacturing in Industry 4.0: A Survey. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 237-252	7.3	75
87	Development of a micro punching machine tool for micro lens array on steel mold. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 106, 4307-4320	3.2	2
86	Web-based digital twin modeling and remote control of cyber-physical production systems. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2020</b> , 64, 101956	9.2	54
85	A blockchain-driven cyber-credit evaluation approach for establishing reliable cooperation among unauthentic MSMEs in social manufacturing. <i>Industrial Management and Data Systems</i> , <b>2020</b> , 121, 724-749	3.6	2
84	Social Manufacturing: What are its key fundamentals?. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 65-70	0.7	1
83	Digital twin-driven rapid reconfiguration of the automated manufacturing system via an open architecture model. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2020</b> , 63, 101895	9.2	108
82	Socialized and self-organized collaborative designer community-resilience modeling and assessment. <i>Research in Engineering Design - Theory, Applications, and Concurrent Engineering</i> , <b>2020</b> , 31, 3-24	3.5	8
81	A Manufacturing Network Modeling and Evolution Characterizing Approach for Self-Organization Among Distributed MSMEs Under Social Manufacturing Context. <i>IEEE Access</i> , <b>2020</b> , 8, 119236-119251	3.5	3
80	Direct salinization of trelagliptin from solid forms by mechanochemistry and its mechanism of salt formation. <i>CrystEngComm</i> , <b>2020</b> , 22, 8256-8265	3.3	0
79	Consortium blockchain-driven decentralized organization and operation for manufacturing community in social manufacturing <b>2020</b> ,		1
78	Blockchain-empowered sustainable manufacturing and product lifecycle management in industry 4.0: A survey. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 132, 110112	16.2	125
77	Investigation on industrial dataspace for advanced machining workshops: enabling machining operations control with domain knowledge and application case studies. <i>Journal of Intelligent Manufacturing</i> , <b>2020</b> , 1	6.7	6
76	Contextual self-organizing of manufacturing process for mass individualization: a cyber-physical-social system approach. <i>Enterprise Information Systems</i> , <b>2020</b> , 14, 1124-1149	3.5	23
75	Real-time machining data application and service based on IMT digital twin. <i>Journal of Intelligent Manufacturing</i> , <b>2020</b> , 31, 1113-1132	6.7	42
74	A survey of feature modeling methods: Historical evolution and new development. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2020</b> , 61, 101851	9.2	20
73	Digital twin-driven joint optimisation of packing and storage assignment in large-scale automated high-rise warehouse product-service system. <i>International Journal of Computer Integrated Manufacturing</i> , <b>2019</b> , 1-18	4.3	52

72	Digital Twin-Driven Cyber-Physical System for Autonomously Controlling of Micro Punching System. <i>IEEE Access</i> , <b>2019</b> , 7, 9459-9469	3.5	32
71	An Enhanced DMAIC Method for Feature-Driven Continuous Quality Improvement for Multi-Stage Machining Processes in One-of-a-Kind and Small-Batch Production. <i>IEEE Access</i> , <b>2019</b> , 7, 32492-32503	3.5	5
70	Social factory as a production node of social manufacturing. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2019</b> , 233, 5144-5160	1.3	4
69	Blockchain Models for Cyber-Credits of Social Manufacturing. <i>Springer Series in Advanced Manufacturing</i> , <b>2019</b> , 197-217	0.9	2
68	Digital twin-driven manufacturing cyber-physical system for parallel controlling of smart workshop. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2019</b> , 10, 1155-1166	3.7	198
67	Digital twin-driven rapid individualised designing of automated flow-shop manufacturing system. <i>International Journal of Production Research</i> , <b>2019</b> , 57, 3903-3919	7.8	141
66	ManuChain: Combining Permissioned Blockchain With a Holistic Optimization Model as Bi-Level Intelligence for Smart Manufacturing. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 1-11	7.3	102
65	Cloud manufacturing: key issues and future perspectives. <i>International Journal of Computer Integrated Manufacturing</i> , <b>2019</b> , 32, 858-874	4.3	36
64	Makerchain: A blockchain with chemical signature for self-organizing process in social manufacturing. <i>Journal of Cleaner Production</i> , <b>2019</b> , 234, 767-778	10.3	90
63	Mini-MES: A Microservices-Based Apps System for Data Interconnecting and Production Controlling in Decentralized Manufacturing. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 3675	2.6	5
62	Industrial Dataspace: A Broker to Run Cyber-Physical-Social Production System in Level of Machining Workshops <b>2019</b> ,		2
61	Social Factory and Interconnections. <i>Springer Series in Advanced Manufacturing</i> , <b>2019</b> , 147-169	0.9	
60	Social Business Relationship and Organizational Network. <i>Springer Series in Advanced Manufacturing</i> , <b>2019</b> , 67-92	0.9	
59	Execution of Social Manufacturing. <i>Springer Series in Advanced Manufacturing</i> , <b>2019</b> , 245-270	0.9	
58	Open Product Design for Social Manufacturing. <i>Springer Series in Advanced Manufacturing</i> , <b>2019</b> , 93-116	0.9	
57	Product Service Systems for Social Manufacturing. <i>Springer Series in Advanced Manufacturing</i> , <b>2019</b> , 171-196	0.9	0
56	Configuration of Social Manufacturing System. <i>Springer Series in Advanced Manufacturing</i> , <b>2019</b> , 219-243	0.9	
55	Industrial Cases Concerning Social Manufacturing. <i>Springer Series in Advanced Manufacturing</i> , <b>2019</b> , 271-299	0.9	2

54	Social Manufacturing Paradigm: Concepts, Architecture and Key Enabled Technologies. <i>Springer Series in Advanced Manufacturing</i> , <b>2019</b> , 13-50	0.9	2
53	Socialized Manufacturing Resources and Interconnections. <i>Springer Series in Advanced Manufacturing</i> , <b>2019</b> , 51-65	0.9	1
52	Product Service Systems for Social Manufacturing: A new service system with multi-provider. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 749-754	0.7	2
51	Manufacturing service order allocation in the context of social manufacturing based on Stackelberg game. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2019</b> , 233, 1890-1901	2.4	2
50	A new method to produce optical nano-needle. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 104, 27-32	3.2	1
49	Sensitivity analysis-based process stability evaluation for one-of-a-kind production. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2019</b> , 233, 63-77	1.3	5
48	Dynamic scheduling in RFID-driven discrete manufacturing system by using multi-layer network metrics as heuristic information. <i>Journal of Intelligent Manufacturing</i> , <b>2019</b> , 30, 979-994	6.7	44
47	Evaluation across and within collaborative manufacturing networks: a comparison of manufacturers' interactions and attributes. <i>International Journal of Production Research</i> , <b>2018</b> , 56, 5131-5146	7.8	25
46	Manifold learning based rescheduling decision mechanism for recessive disturbances in RFID-driven job shops. <i>Journal of Intelligent Manufacturing</i> , <b>2018</b> , 29, 1485-1500	6.7	33
45	Analysis of personalized production organizing and operating mechanism in a social manufacturing environment. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2018</b> , 232, 2670-2676	2.4	11
44	Incorporating social sensors, cyber-physical system nodes, and smart products for personalized production in a social manufacturing environment. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2018</b> , 232, 2323-2338	2.4	24
43	RFID-enabled social manufacturing system for inter-enterprise monitoring and dispatching of integrated production and transportation tasks. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2018</b> , 49, 120-133	9.2	74
42	Combining granular computing technique with deep learning for service planning under social manufacturing contexts. <i>Knowledge-Based Systems</i> , <b>2018</b> , 143, 295-306	7.3	67
41	A resource-oriented middleware in a prototype cyber-physical manufacturing system. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2018</b> , 232, 2339-2352	2.4	11
40	Feature-based intelligent system for steam simulation using computational fluid dynamics. <i>Advanced Engineering Informatics</i> , <b>2018</b> , 38, 357-369	7.4	9
39	Accurate experimental detection method for characterizing superoscillatory lenses made from multiannular metasurfaces. <i>Optical Engineering</i> , <b>2018</b> , 57, 1	1.1	1
38	An investigation on establishing small- and medium-sized enterprises communities under the environment of social manufacturing. <i>Concurrent Engineering Research and Applications</i> , <b>2018</b> , 26, 251-264	1.7	6
37	Demand-based manufacturing service capability estimation of a manufacturing system in a social manufacturing environment. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2017</b> , 231, 1275-1297	2.4	10

36	A hybrid-data-on-tag-enabled decentralized control system for flexible smart workpiece manufacturing shop floors. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2017</b> , 231, 764-782	1.3	22
35	Outsourcer-supplier coordination for parts machining outsourcing under social manufacturing. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2017</b> , 231, 1078-1090	2.4	25
34	Costing-based coordination between mt-iPSS customer and providers for job shop production using game theory. <i>International Journal of Production Research</i> , <b>2017</b> , 55, 430-446	7.8	9
33	RFID-Enabled Physical Object Tracking in Process Flow Based on an Enhanced Graphical Deduction Modeling Method. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 3006-3018	7.3	19
32	Granular computing-based development of service process reference models in social manufacturing contexts. <i>Concurrent Engineering Research and Applications</i> , <b>2017</b> , 25, 95-107	1.7	22
31	A distributed configuration scheme for warehouse product service system. <i>Advances in Mechanical Engineering</i> , <b>2017</b> , 9, 168781401770643	1.2	9
30	An extended machining error propagation network model for small-batch machining process control of aircraft landing gear parts. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2017</b> , 231, 1347-1365	0.9	5
29	Modelling and prediction of the effect of cutting strategy on surface generation in ultra-precision raster milling. <i>International Journal of Computer Integrated Manufacturing</i> , <b>2017</b> , 30, 895-909	4.3	1
28	A Digital Twin-Based Approach for Designing and Multi-Objective Optimization of Hollow Glass Production Line. <i>IEEE Access</i> , <b>2017</b> , 5, 26901-26911	3.5	201
27	A framework of credit assurance mechanism for manufacturing services under social manufacturing context <b>2017</b> ,		23
26	The configuration of social manufacturing: a social intelligence way toward service-oriented manufacturing. <i>International Journal of Manufacturing Research</i> , <b>2017</b> , 12, 4	0.4	12
25	Social manufacturing as a sustainable paradigm for mass individualization. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2016</b> , 230, 1961-1968	2.4	63
24	Mining and Matching Relationships From Interaction Contexts in a Social Manufacturing Paradigm. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2016</b> , 1-13	7.3	16
23	Social manufacturing: A survey of the state-of-the-art and future challenges <b>2016</b> ,		10
22	Modeling and analyzing of an enterprise relationship network in the context of social manufacturing. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2016</b> , 230, 752-769	2.4	38
21	Towards a cyber-physical-social-connected and service-oriented manufacturing paradigm: Social Manufacturing. <i>Manufacturing Letters</i> , <b>2016</b> , 7, 15-21	4.5	144
20	Incorporating Social Sensors and CPS Nodes for Personalized Production under Social Manufacturing Environment. <i>Procedia CIRP</i> , <b>2016</b> , 56, 366-371	1.8	12
19	A deep learning approach for relationship extraction from interaction context in social manufacturing paradigm. <i>Knowledge-Based Systems</i> , <b>2016</b> , 100, 188-199	7.3	90



18	The production instruction system for smart job shop <b>2016</b> ,		3
17	Implementing a WebAPP-based Software Framework for Manufacturing Execution Systems. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 388-393	0.7	8
16	Experiment Study of the Fast Tool Servo (FTS) by Laser Interferometer. <i>Key Engineering Materials</i> , <b>2014</b> , 625, 178-181	0.4	1
15	Mobi-POSP: A Web-Based Mobile Producing and Outsourcing Service Platform for Industrial Equipment Manufacturing. <i>Advanced Materials Research</i> , <b>2014</b> , 889-890, 1306-1309	0.5	2
14	Implementing of a three-phase integrated decision support model for parts machining outsourcing. <i>International Journal of Production Research</i> , <b>2014</b> , 52, 3614-3636	7.8	40
13	Real-time quality monitoring and predicting model based on error propagation networks for multistage machining processes. <i>Journal of Intelligent Manufacturing</i> , <b>2014</b> , 25, 521-538	6.7	32
12	Complexity analysis of distributed measuring and sensing network in multistage machining processes. <i>Journal of Intelligent Manufacturing</i> , <b>2013</b> , 24, 55-69	6.7	11
11	A performance evaluation method for radio frequency identificationBased tracking network of job-shop-type work-in-process material flows. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2013</b> , 227, 1541-1557	2.4	13
10	An RFID-Driven Graphical Formalized Deduction for Describing the Time-Sensitive State and Position Changes of Work-in-Progress Material Flows in a Job-Shop Floor. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2013</b> , 135,	3.3	20
9	Framework and Key Enabling Technologies for Social Manufacturing. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 312, 498-501	0.3	14
8	Quality Prediction of Multistage Machining Processes Based on Assigned Error Propagation Network. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , <b>2013</b> , 49, 160	1.3	5
7	RFID-enabled real-time manufacturing information tracking infrastructure for extended enterprises. <i>Journal of Intelligent Manufacturing</i> , <b>2012</b> , 23, 2357-2366	6.7	45
6	RFID Based e-quality tracking in service-oriented manufacturing execution system. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , <b>2012</b> , 25, 974-981	2.5	8
5	Modeling and analyzing of an enterprise collaboration network supported by service-oriented manufacturing. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2012</b> , 226, 1579-1593	2.4	33
4	Method of change management based on dynamic machining error propagation. <i>Science in China Series D: Earth Sciences</i> , <b>2009</b> , 52, 1811-1820		4
3	Modeling of Machining Error Propagation Network for Multistage Machining Processes. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 408-418	0.9	6
2	Using mobile agents to encapsulate manufacturing resources over the Internet. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2005</b> , 25, 189-197	3.2	10
1	TeleRP - an Internet web-based solution for remote rapid prototyping service and maintenance. <i>International Journal of Computer Integrated Manufacturing</i> , <b>2001</b> , 14, 83-94	4.3	25

