Qiang Liu

List of Publications by Year in Descending Order

30 papers	1,489 citations	16 h-index	32 g-index
32 ext. papers	2,170 ext. citations	6.6 avg, IF	5.48 L-index

#	Paper	IF	Citations
30	Cloud-edge orchestration-based bi-level autonomous process control for mass individualization of rapid printed circuit boards prototyping services. *Journal of Manufacturing Systems*, **2022**, 63, 143-161	9.1	2
29	Digital twin enabled optimal reconfiguration of the semi-automatic electronic assembly line with frequent changeovers. *Robotics and Computer-Integrated Manufacturing*, **2022**, 77, 102343	9.2	0
28	A Digital Twin-Oriented Lightweight Approach for 3D Assemblies. *Machines*, **2021**, 9, 231	2.9	2
27	Digital Twin-Driven Rapid Customized Design of Board-Type Furniture Production Line. *Journal of Computing and Information Science in Engineering*, **2021**, 21,	2.4	4
26	Algorithms for the variable-sized bin packing problem with time windows. *Computers and Industrial Engineering*, **2021**, 155, 107175	6.4	4
25	A cyber-physical production monitoring service system for energy-aware collaborative production monitoring in a smart shop floor. *Journal of Cleaner Production*, **2021**, 297, 126599	10.3	5
24	A matrix analytic approach for Bayesian network modeling and inference of a manufacturing system. *Journal of Manufacturing Systems*, **2021**, 60, 202-213	9.1	1
23	Resilience dynamics modeling and control for a reconfigurable electronic assembly line under spatio-temporal disruptions. *Journal of Manufacturing Systems*, **2021**, 60, 852-863	9.1	5
22	Digital twin-based designing of the configuration, motion, control, and optimization model of a flow-type smart manufacturing system. *Journal of Manufacturing Systems*, **2021**, 58, 52-64	9.1	92
21	A loosely-coupled deep reinforcement learning approach for order acceptance decision of mass-individualized printed circuit board manufacturing in industry 4.0. *Journal of Cleaner Production*, **2021**, 280, 124405	10.3	19
20	Digital twins-based remote semi-physical commissioning of flow-type smart manufacturing systems.. *Journal of Cleaner Production*, **2021**, 306, 127278	10.3	23
19	Digital twins-based smart manufacturing system design in Industry 4.0: A review. *Journal of Manufacturing Systems*, **2021**, 60, 119-137	9.1	70
18	Blockchain-Secured Smart Manufacturing in Industry 4.0: A Survey. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 237-252	7.3	75
17	Digital twin-driven rapid reconfiguration of the automated manufacturing system via an open architecture model. *Robotics and Computer-Integrated Manufacturing*, **2020**, 63, 101895	9.2	108
16	Blockchain-empowered sustainable manufacturing and product lifecycle management in industry 4.0: A survey. *Renewable and Sustainable Energy Reviews*, **2020**, 132, 110112	16.2	125
15	Digital twin-driven joint optimisation of packing and storage assignment in large-scale automated high-rise warehouse product-service system. *International Journal of Computer Integrated Manufacturing*, **2019**, 1-18	4.3	52
14	Digital Twin-Driven Cyber-Physical System for Autonomously Controlling of Micro Punching System. *IEEE Access*, **2019**, 7, 9459-9469	3.5	32

List of Publications

13	Digital twin-driven manufacturing cyber-physical system for parallel controlling of smart workshop. *Journal of Ambient Intelligence and Humanized Computing*, **2019**, 10, 1155-1166	3.7	198
12	Digital twin-driven rapid individualised designing of automated flow-shop manufacturing system. *International Journal of Production Research*, **2019**, 57, 3903-3919	7.8	141
11	ManuChain: Combining Permissioned Blockchain With a Holistic Optimization Model as Bi-Level Intelligence for Smart Manufacturing. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2019**, 1-11	7.3	102
10	Makerchain: A blockchain with chemical signature for self-organizing process in social manufacturing. *Journal of Cleaner Production*, **2019**, 234, 767-778	10.3	90
9	A best-fit branch-and-bound heuristic for the unconstrained two-dimensional non-guillotine cutting problem. *European Journal of Operational Research*, **2018**, 270, 448-474	5.6	4
8	Fabrication of anti-reflective surfaces by 3-DOF fast tool servo diamond turning. *International Journal of Advanced Manufacturing Technology*, **2018**, 95, 2875-2883	3.2	3
7	An Access Control Model for Resource Sharing Based on the Role-Based Access Control Intended for Multi-Domain Manufacturing Internet of Things. *IEEE Access*, **2017**, 5, 7001-7011	3.5	40
6	A Lightweight Intelligent Manufacturing System Based on Cloud Computing for Plate Production. *Mobile Networks and Applications*, **2017**, 22, 1170-1181	2.9	11
5	A Digital Twin-Based Approach for Designing and Multi-Objective Optimization of Hollow Glass Production Line. *IEEE Access*, **2017**, 5, 26901-26911	3.5	201
4	Intelligent Manufacturing Based on Cloud-Integrated Manufacturing CPS **2016**, 177-186		1
3	A new tool path for optical freeform surface fast tool servo diamond turning. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2014**, 228, 1721-1726	2.4	15
2	Enabling cyber-physical systems with machine-to-machine technologies. *International Journal of Ad Hoc and Ubiquitous Computing*, **2013**, 13, 187	0.7	57
1	An exact approach for the constrained two-dimensional guillotine cutting problem with defects. *International Journal of Production Research*,1-18	7.8	0