Jumyung Um

List of Publications by Year
in descending order

28 papers	538 citations	11 h-index (840776)
30 all docs	30 docs citations	30 times ranked

23 g-index (642732)

603 citing authors

#	Article	IF	Citations
1	Augmented Reality in Warehouse Operations: Opportunities and Barriers. IFAC-PapersOnLine, 2017, 50, 12979-12984.	0.9	89
2	UbiDM: A new paradigm for product design and manufacturing via ubiquitous computing technology. International Journal of Computer Integrated Manufacturing, 2008, 21, 540-549.	4.6	71
3	Plug-and-Simulate within Modular Assembly Line enabled by Digital Twins and the use of AutomationML. IFAC-PapersOnLine, 2017, 50, 15904-15909.	0.9	54
4	The architecture development of Industry 4.0 compliant smart machine tool system (SMTS). Journal of Intelligent Manufacturing, 2020, 31, 1837-1859.	7.3	50
5	STEP-NC compliant process planning of additive manufacturing: remanufacturing. International Journal of Advanced Manufacturing Technology, 2017, 88, 1215-1230.	3.0	40
6	An architecture design for smart manufacturing execution system. Computer-Aided Design and Applications, 2017, 14, 472-485.	0.6	38
7	Smart Factory Information Service Bus (SIBUS) for manufacturing application: requirement, architecture and implementation. Journal of Intelligent Manufacturing, 2019, 30, 363-382.	7.3	32
8	An architecture design with data model for product recovery management systems. Resources, Conservation and Recycling, 2008, 52, 1175-1184.	10.8	27
9	An overview of information technology standardization activities related to additive manufacturing. Progress in Additive Manufacturing, 2019, 4, 345-354.	4.8	16
10	Modular augmented reality platform for smart operator in production environment. , 2018, , .		15
11	Total Energy Estimation Model for Remote Laser Welding Process. Procedia CIRP, 2013, 7, 658-663.	1.9	14
12	STEP-NC machine tool data model and its applications. International Journal of Computer Integrated Manufacturing, 2016, 29, 1058-1074.	4.6	13
13	Development a Modular Factory with Modular Software Components. Procedia Manufacturing, 2017, 11, 922-930.	1.9	12
14	Factory Planning System Considering Energy-efficient Process under Cloud Manufacturing. Procedia CIRP, 2014, 17, 553-558.	1.9	11
15	Deep Learning Approach of Energy Estimation Model of Remote Laser Welding. Energies, 2019, 12, 1799.	3.1	9
16	Design method for developing a product recovery management system based on life cycle information. International Journal of Precision Engineering and Manufacturing - Green Technology, 2015, 2, 173-187.	4.9	7
17	Edge Computing in Smart Production. Advances in Intelligent Systems and Computing, 2020, , 144-152.	0.6	7
18	Developing Energy Estimation Model Based on Sustainability KPI of Machine Tools. Procedia CIRP, 2015, 26, 217-222.	1.9	6

#	Article	IF	Citations
19	Development and evaluation of customisation process for ubiquitous product recovery management system. International Journal of Computer Integrated Manufacturing, 2015, 28, 903-919.	4.6	6
20	Design guidelines for remote laser welding in automotive assembly lines. International Journal of Advanced Manufacturing Technology, 2017, 89, 1039-1051.	3.0	5
21	Squashed-Slice Algorithm Based on STEP-NC for Multi-Material and Multi-Directional Additive Processes. Applied Sciences (Switzerland), 2021, 11, 8292.	2.5	4
22	Developing ISO 14649-based conversational programming system for multi-channel complex machine tools. International Journal of Computer Integrated Manufacturing, 2009, 22, 562-575.	4.6	3
23	GadgetArmâ€"Automatic Grasp Generation and Manipulation of 4-DOF Robot Arm for Arbitrary Objects Through Reinforcement Learning. Sensors, 2020, 20, 6183.	3.8	3
24	A One-Stage Ensemble Framework Based on Convolutional Autoencoder for Remaining Useful Life Estimation. Sensors, 2022, 22, 2817.	3.8	2
25	Smart tracking to enable disturbance tolerant manufacturing through enhanced product intelligence. , 2015, , .		1
26	Developing a Production Scheduling System for Modular Factory Using Constraint Programming. Advances in Intelligent Systems and Computing, 2020, , 126-133.	0.6	1
27	Integration of Design Intent during the Product Lifecycle Management. IFIP Advances in Information and Communication Technology, 2014, , 101-110.	0.7	1
28	Operation-Driven Power Analysis of Discrete Process in a Cyber-Physical System Based on a Modularized Factory. Sustainability, 2022, 14, 3816.	3.2	1