Rok VrabiÄ•

List of Publications by Year
in descending order

37 papers	656 citations	623734 14 h-index	610901 24 g-index
37 all docs	37 docs citations	37 times ranked	642 citing authors

#	ARTICLE	IF	CITATIONS
1	Digital twins: Understanding the added value of integrated models for through-life engineering services. Procedia Manufacturing, 2018, 16, 139-146.	1.9	73
2	A design framework for adaptive digital twins. CIRP Annals - Manufacturing Technology, 2020, 69, 145-148.	3.6	55
3	Distributed logistics platform based on Blockchain and IoT. Procedia CIRP, 2019, 81, 826-831.	1.9	53
4	Real-time order dispatching for a fleet of autonomous mobile robots using multi-agent reinforcement learning. CIRP Annals - Manufacturing Technology, 2020, 69, 397-400.	3.6	42
5	Discovering autonomous structures within complex networks of work systems. CIRP Annals - Manufacturing Technology, 2012, 61, 423-426.	3.6	35
6	Displaying Product Manufacturing Information in Augmented Reality for Inspection. Procedia CIRP, 2019, 81, 832-837.	1.9	35
7	Assessing operational complexity of manufacturing systems based on statistical complexity. International Journal of Production Research, 2012, 50, 3673-3685.	7.5	34
8	Advancing manufacturing systems with big-data analytics: A conceptual framework. International Journal of Computer Integrated Manufacturing, 2020, 33, 169-188.	4.6	30
9	Anomaly detection in shop floor material flow: A network theory approach. CIRP Annals - Manufacturing Technology, 2013, 62, 487-490.	3.6	22
10	An intelligent agent-based architecture for resilient digital twins in manufacturing. CIRP Annals - Manufacturing Technology, 2021, 70, 349-352.	3.6	22
11	Interpretative identification of the faulty conditions in a cyclic manufacturing process. Journal of Manufacturing Systems, 2017, 43, 214-224.	13.9	18
12	A Data-Driven Holistic Approach to Fault Prognostics in a Cyclic Manufacturing Process. Procedia CIRP, 2017, 63, 664-669.	1.9	18
13	Distributed control with rationally bounded agents in cyber-physical production systems. CIRP Annals - Manufacturing Technology, 2018, 67, 507-510.	3.6	17
14	Structured authoring for AR-based communication to enhance efficiency in remote diagnosis for complex equipment. Advanced Engineering Informatics, 2020, 45, 101096.	8.0	16
15	Big data analytics for operations management in engineer-to-order manufacturing. Procedia CIRP, 2018, 72, 209-214.	1.9	15
16	Decentralised network architecture for cloud manufacturing. International Journal of Computer Integrated Manufacturing, 0, , 1-14.	4.6	14
17	A foundational ontology for the modelling of manufacturing systems. Advanced Engineering Informatics, 2018, 38, 129-141.	8.0	14
18	A Wearable IMU System for Flexible Teleoperation of a Collaborative Industrial Robot. Sensors, 2021, 21, 5871.	3.8	14

#	Article	IF	Citations
19	Statistical Process Control as a Service: An Industrial Case Study. Procedia CIRP, 2013, 7, 401-406.	1.9	13
20	Data mining for fault diagnostics: A case for plastic injection molding. Procedia CIRP, 2019, 81, 809-814.	1.9	13
21	Augmented reality assisted calibration of digital twins of mobile robots. IFAC-PapersOnLine, 2020, 53, 203-208.	0.9	13
22	Knowledge elicitation for fault diagnostics in plastic injection moulding: A case for machine-to-machine communication. CIRP Annals - Manufacturing Technology, 2017, 66, 433-436.	3.6	12
23	Identifying the business and social networks in the domain of production by merging the data from heterogeneous internet sources. International Journal of Production Economics, 2018, 200, 181-191.	8.9	12
24	Online Monitoring, Analysis, and Remote Recording of Welding Parameters to the Welding Diary. Strojniski Vestnik/Journal of Mechanical Engineering, 2012, 58, 444-452.	1.1	11
25	Simulation study of large production network robustness in uncertain environment. CIRP Annals - Manufacturing Technology, 2015, 64, 439-442.	3.6	11
26	Experimental study of work system networking in production environment. CIRP Annals - Manufacturing Technology, 2014, 63, 401-404.	3.6	8
27	Multi-objective adjustment of remaining useful life predictions based on reinforcement learning. Procedia CIRP, 2020, 93, 425-430.	1.9	8
28	Energy efficient communication based on self-organisation of IoT devices for material flow tracking. CIRP Annals - Manufacturing Technology, 2019, 68, 495-498.	3.6	7
29	Virtual Manufacturing Work Systems. , 2008, , 129-132.		5
30	Reinforcement-Learning-Based Route Generation for Heavy-Traffic Autonomous Mobile Robot Systems. Sensors, 2021, 21, 4809.	3.8	4
31	Simulation of Workpiece Kinematics in Centreless Throughfeed Grinding. , 2008, , 455-458.		4
32	An architecture for sim-to-real and real-to-sim experimentation in robotic systems. Procedia CIRP, 2021, 104, 336-341.	1.9	4
33	Identification of the CIRP expertise network based on public data. Procedia CIRP, 2018, 72, 165-168.	1.9	2
34	Development of a Real-Time Motor-Imagery-Based EEG Brain-Machine Interface. Lecture Notes in Computer Science, 2018, , 610-622.	1.3	2
35	Robotics competitions as motivator for project oriented learning in mechatronics. , 2013, , .		0
36	Production Resource Search Using the Viral Phenomenon: Concept Introduction. Procedia CIRP, 2014, 25, 177-184.	1.9	0

#	Article	IF	Citations
37	Assessing Feasibility of Operations and Maintenance Automation â€" A Case of Small Hydropower Plants. Procedia CIRP, 2015, 37, 164-169.	1.9	0