Stephen Van Duin

List of Publications by Year
in descending order

27	1,265	687363 13	713466 21
papers	citations	h-index	g-index

27	27	27	1111
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent progress on programming methods for industrial robots. Robotics and Computer-Integrated Manufacturing, 2012, 28, 87-94.	9.9	350
2	Bead modelling and implementation of adaptive MAT path in wire and arc additive manufacturing. Robotics and Computer-Integrated Manufacturing, 2016, 39, 32-42.	9.9	174
3	Towards an automated robotic arc-welding-based additive manufacturing system from CAD to finished part. CAD Computer Aided Design, 2016, 73, 66-75.	2.7	138
4	Fabricating Superior NiAl Bronze Components through Wire Arc Additive Manufacturing. Materials, 2016, 9, 652.	2.9	135
5	Automatic multi-direction slicing algorithms for wire based additive manufacturing. Robotics and Computer-Integrated Manufacturing, 2016, 37, 139-150.	9.9	127
6	The influence of post-production heat treatment on the multi-directional properties of nickel-aluminum bronze alloy fabricated using wire-arc additive manufacturing process. Additive Manufacturing, 2018, 23, 411-421.	3.0	53
7	Investigation of humping phenomenon for the multi-directional robotic wire and arc additive manufacturing. Robotics and Computer-Integrated Manufacturing, 2020, 63, 101916.	9.9	39
8	Application of Multidirectional Robotic Wire Arc Additive Manufacturing Process for the Fabrication of Complex Metallic Parts. IEEE Transactions on Industrial Informatics, 2020, 16, 454-464.	11.3	38
9	Recent progress on sampling based dynamic motion planning algorithms. , 2016, , .		25
10	Advanced Design for Additive Manufacturing: 3D Slicing and 2D Path Planning. , 0, , .		22
11	Neutron diffraction residual stress determinations in Fe3Al based iron aluminide components fabricated using wire-arc additive manufacturing (WAAM). Additive Manufacturing, 2019, 29, 100774.	3.0	22
12	Influences of postproduction heat treatment on Fe3Al-based iron aluminide fabricated using the wire-arc additive manufacturing process. International Journal of Advanced Manufacturing Technology, 2018, 97, 335-344.	3.0	20
13	Precipitation Strengthening in Niâ€“Cu Alloys Fabricated Using Wire Arc Additive Manufacturing Technology. Metals, 2019, 9, 105.	2.3	19
14	Automated Offline Programming for Robotic Welding System with High Degree of Freedoms. Lecture Notes in Electrical Engineering, 2011, , 685-692.	0.4	16
15	Mode coupling chatter prediction and avoidance in robotic machining process. International Journal of Advanced Manufacturing Technology, 2019, 104, 2103-2116.	3.0	15
16	Automatic program generation for welding robots from CAD. , 2016, , .		13
17	Automated Programming for Robotic Welding. Transactions on Intelligent Welding Manufacturing, 2018, , 48-59.	0.3	12
18	Feasibility Study of Low Force Robotic Friction Stir Process and its Effect On Cavitation Erosion and Electrochemical Corrosion for Ni Al Bronze Alloys. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 2291-2298.	2.1	10

#	Article	IF	Citations
19	Adaptive Partial Shortcuts: Path Optimization for Industrial Robotics. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 86, 35-47.	3.4	9
20	Integration of a multi-directional wire arc additive manufacturing system with an automated process planning algorithm. Journal of Industrial Information Integration, 2022, 26, 100265.	6.4	7
21	Path Planning with a Lazy Significant Edge Algorithm (LSEA). International Journal of Advanced Robotic Systems, 2013, 10, 198.	2.1	6
22	The effects of multiple repair welds on a quenched and tempered steel for naval vessels. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 1997-2012.	2.5	5
23	Task Space Motion Planning Decomposition. , 2018, , .		3
24	Robotic skeleton arc additive manufacturing of aluminium alloy. International Journal of Advanced Manufacturing Technology, 2021, 114, 2945-2959.	3.0	3
25	Automatic Weld Path Generation for Mesh Objects. , 2017, , .		2
26	Automated Assembly of Ship Panels Using an Integrated Robotic Tool. Advanced Materials Research, 0, 338, 639-644.	0.3	1
27	Bringing Path Planning and Lean Automation Together. Advanced Materials Research, 2012, 591-593, 1371-1375.	0.3	1