

# Stephen Van Duin

## List of Publications by Year in descending order

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27  
papers

1,265  
citations

687363

13  
h-index

713466

21  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1111  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integration of a multi-directional wire arc additive manufacturing system with an automated process planning algorithm. <i>Journal of Industrial Information Integration</i> , 2022, 26, 100265.	6.4	7
2	Robotic skeleton arc additive manufacturing of aluminium alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 2945-2959.	3.0	3
3	The effects of multiple repair welds on a quenched and tempered steel for naval vessels. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 1997-2012.	2.5	5
4	Application of Multidirectional Robotic Wire Arc Additive Manufacturing Process for the Fabrication of Complex Metallic Parts. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 454-464.	11.3	38
5	Investigation of humping phenomenon for the multi-directional robotic wire and arc additive manufacturing. <i>Robotics and Computer-Integrated Manufacturing</i> , 2020, 63, 101916.	9.9	39
6	Mode coupling chatter prediction and avoidance in robotic machining process. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 2103-2116.	3.0	15
7	Neutron diffraction residual stress determinations in Fe3Al based iron aluminide components fabricated using wire-arc additive manufacturing (WAAM). <i>Additive Manufacturing</i> , 2019, 29, 100774.	3.0	22
8	Precipitation Strengthening in Ni-Cu Alloys Fabricated Using Wire Arc Additive Manufacturing Technology. <i>Metals</i> , 2019, 9, 105.	2.3	19
9	Influences of postproduction heat treatment on Fe3Al-based iron aluminide fabricated using the wire-arc additive manufacturing process. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 335-344.	3.0	20
10	Task Space Motion Planning Decomposition. , 2018, , .		3
11	The influence of post-production heat treatment on the multi-directional properties of nickel-aluminum bronze alloy fabricated using wire-arc additive manufacturing process. <i>Additive Manufacturing</i> , 2018, 23, 411-421.	3.0	53
12	Automated Programming for Robotic Welding. <i>Transactions on Intelligent Welding Manufacturing</i> , 2018, , 48-59.	0.3	12
13	Adaptive Partial Shortcuts: Path Optimization for Industrial Robotics. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017, 86, 35-47.	3.4	9
14	Automatic Weld Path Generation for Mesh Objects. , 2017, , .		2
15	Fabricating Superior NiAl Bronze Components through Wire Arc Additive Manufacturing. <i>Materials</i> , 2016, 9, 652.	2.9	135
16	Automatic program generation for welding robots from CAD. , 2016, , .		13
17	Recent progress on sampling based dynamic motion planning algorithms. , 2016, , .		25
18	Towards an automated robotic arc-welding-based additive manufacturing system from CAD to finished part. <i>CAD Computer Aided Design</i> , 2016, 73, 66-75.	2.7	138

#	ARTICLE	IF	CITATIONS
19	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
20	Automatic multi-direction slicing algorithms for wire based additive manufacturing. Robotics and Computer-Integrated Manufacturing, 2016, 37, 139-150.	9.9	127
21	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
22	Path Planning with a Lazy Significant Edge Algorithm (LSEA). International Journal of Advanced Robotic Systems, 2013, 10, 198.	2.1	6
23	Bringing Path Planning and Lean Automation Together. Advanced Materials Research, 2012, 591-593, 1371-1375.	0.3	1
24	Recent progress on programming methods for industrial robots. Robotics and Computer-Integrated Manufacturing, 2012, 28, 87-94.	9.9	350
25	Automated Offline Programming for Robotic Welding System with High Degree of Freedoms. Lecture Notes in Electrical Engineering, 2011, , 685-692.	0.4	16
26	Automated Assembly of Ship Panels Using an Integrated Robotic Tool. Advanced Materials Research, 0, 338, 639-644.	0.3	1
27	Advanced Design for Additive Manufacturing: 3D Slicing and 2D Path Planning. , 0, , .		22