

Joe Cecil

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,222
citations

430874

18
h-index

414414

32
g-index

74
all docs

74
docs citations

74
times ranked

1015
citing authors

#	ARTICLE	IF	CITATIONS
1	Information systems for enterprise integration, interoperability and networking: theory and applications. <i>Enterprise Information Systems</i> , 2013, 7, 1-6.	4.7	104
2	New perspectives for the future interoperable enterprise systems. <i>Computers in Industry</i> , 2016, 79, 47-63.	9.9	103
3	Assembly and manipulation of micro devices – A state of the art survey. <i>Robotics and Computer-Integrated Manufacturing</i> , 2007, 23, 580-588.	9.9	93
4	Virtual engineering approaches in product and process design. <i>International Journal of Advanced Manufacturing Technology</i> , 2007, 31, 846-856.	3.0	80
5	A review of gripping and manipulation techniques for micro-assembly applications. <i>International Journal of Production Research</i> , 2005, 43, 819-828.	7.5	73
6	Computer-Aided Fixture Design - A Review and Future Trends. <i>International Journal of Advanced Manufacturing Technology</i> , 2001, 18, 790-793.	3.0	59
7	An advanced simulator for orthopedic surgical training. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 305-319.	2.8	57
8	An Internet of Things (IoT)-based collaborative framework for advanced manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 84, 1141.	3.0	52
9	A review of micro-devices assembly techniques and technology. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 83, 1569-1581.	3.0	45
10	An IoMT based cyber training framework for orthopedic surgery using Next Generation Internet technologies. <i>Informatics in Medicine Unlocked</i> , 2018, 12, 128-137.	3.4	44
11	Computer aided fixture design: Using information intensive function models in the development of automated fixture design systems. <i>Journal of Manufacturing Systems</i> , 2002, 21, 58-71.	13.9	32
12	VREM: An advanced virtual environment for micro assembly. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 72, 47-56.	3.0	28
13	A Clamping Design Approach for Automated Fixture Design. <i>International Journal of Advanced Manufacturing Technology</i> , 2001, 18, 784-789.	3.0	27
14	Collaborative virtual environments for orthopedic surgery. , 2013, , .		26
15	Development of a virtual and physical work cell to assemble micro-devices. <i>Robotics and Computer-Integrated Manufacturing</i> , 2005, 21, 431-441.	9.9	23
16	An Internet-of-Things (IoT) based cyber manufacturing framework for the assembly of microdevices. <i>International Journal of Computer Integrated Manufacturing</i> , 2019, 32, 430-440.	4.6	23
17	A Virtual Reality Enhanced Cyber-Human Framework for Orthopedic Surgical Training. <i>IEEE Systems Journal</i> , 2019, 13, 3501-3512.	4.6	23
18	A next-generation IoT-based collaborative framework for electronics assembly. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 39-52.	3.0	22

#	ARTICLE	IF	CITATIONS
19	Virtual Learning Environments in engineering and STEM education. , 2013, , .		21
20	An Advanced Cyber Physical Framework for Micro Devices Assembly. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 92-106.	9.3	18
21	Critical assessment of Shape Retrieval Tools (SRTs). International Journal of Advanced Manufacturing Technology, 2021, 116, 3431-3446.	3.0	18
22	TAMIL: an integrated fixture design system for prismatic parts. International Journal of Computer Integrated Manufacturing, 2004, 17, 421-434.	4.6	15
23	A Virtual Environment for Satellite Assembly. Computer-Aided Design and Applications, 2008, 5, 526-538.	0.6	14
24	A Network-Based Virtual Reality Simulation Training Approach for Orthopedic Surgery. ACM Transactions on Multimedia Computing, Communications and Applications, 2018, 14, 1-21.	4.3	12
25	Micro devices assembly using virtual environments. Journal of Intelligent Manufacturing, 2007, 18, 361-369.	7.3	11
26	A distributed internet-based framework for manufacturing planning. International Journal of Advanced Manufacturing Technology, 2006, 27, 619-624.	3.0	10
27	Design of a Human Centered Computing (HCC) based Virtual Reality Simulator to train First Responders Involved in the COVID-19 Pandemic. , 2021, , .		10
28	Design and Assessment of Virtual Learning Environments to Support STEM Learning for Autistic Students. , 2020, , .		10
29	A virtual prototyping test bed for electronics assembly. , 0, , .		9
30	A distributed collaborative simulation environment for orthopedic surgical training. , 2017, , .		9
31	A cyber training framework for orthopedic surgery. Cogent Medicine, 2017, 4, 1419792.	0.7	9
32	Foundational elements of next generation cyber physical and IoT frameworks for distributed collaboration. , 2017, , .		8
33	A Cyber-Human based Integrated Assessment approach for Orthopedic Surgical Training. , 2020, , .		8
34	A conceptual framework for supporting UAV based cyber physical weather monitoring activities. , 2018, , .		7
35	A next generation collaborative framework for advanced manufacturing. , 2013, , .		6
36	An Internet of Things (IoT) Based Cyber Physical Framework for Advanced Manufacturing. Lecture Notes in Computer Science, 2015, , 66-74.	1.3	6

#	ARTICLE	IF	CITATIONS
37	Design of an Immersive Simulator for Orthopedic Surgical Training. , 2018, , .		6
38	An Information Model for Designing Virtual Environments for Orthopedic Surgery. Lecture Notes in Computer Science, 2013, , 218-227.	1.3	6
39	Information Centric Engineering (ICE) Frameworks for Advanced Manufacturing Enterprises. Lecture Notes in Computer Science, 2013, , 47-56.	1.3	6
40	A Virtual Factory Environment to support Process Design in Micro Assembly Domains. Computer-Aided Design and Applications, 2011, 8, 119-127.	0.6	5
41	A Virtual Reality enhanced Cyber Physical Framework to support Simulation based Training of Orthopedic Surgical Procedures. , 2018, , .		5
42	Simulation Based Design Approaches to Study Transportation and Habitat Alternatives for Deep Space Missions. , 2018, , .		5
43	Design of VR based orthopedic simulation environments using emerging technologies. , 2018, , .		5
44	Exploring Immersive Simulation based Design Frameworks in Support of the Moon Mission. , 2019, , .		5
45	An Advanced Collaborative Framework for Micro Assembly. , 2007, , .		4
46	A Cyber Physical Test Bed for collaborative Micro Assembly engineering. , 2010, , .		4
47	A Collaborative Manufacturing Approach supporting adoption of IoT Principles in Micro Devices Assembly. Procedia Manufacturing, 2018, 26, 1265-1277.	1.9	4
48	Collaborative Remote Laboratories for Serving Sciences and Engineering Education in Iraq: Rexnet Project. , 2018, , .		4
49	A shape modification app and cyber-physical framework for collaborative manufacturing. Procedia Manufacturing, 2019, 34, 932-939.	1.9	4
50	Design of Cyber-Human Frameworks for Immersive Learning. , 2019, , .		4
51	Development of a Virtual Reality Based Simulation Environment for Orthopedic Surgical Training. Lecture Notes in Computer Science, 2017, , 206-214.	1.3	4
52	Next generation cyber physical frameworks for electronics manufacturing. , 2018, , .		3
53	An information centric framework for creating virtual environments to support micro surgery. The International Journal of Virtual Reality, 2019, 15, 3-17.	2.2	3
54	The Creation of an Information Based Manufacturing Framework for micro devices assembly: A discussion of the path planning and virtual assembly modules. , 2006, , .		2

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55	A next generation collaborative system for micro devices assembly. , 2017, , .		2
56	A virtual reality based internet-of-things (IoT) framework for micro devices assembly. , 2017, , .		2
57	Exploring the role of Simulation-Based Design principles in support of transportation and material handling activities for the Lunar Mission. , 2019, , .		2
58	VIRAM: A Virtual Reality Environment for the Assembly of Micro Devices. , 2004, , .		2
59	Immersive Virtual Reality based Training and Assessment of an Orthopedic Surgical Process. , 2020, , .		2
60	Modeling of van der Waals Forces during the Assembly of Micro Devices. , 2006, , .		1
61	The Creation of Collaborative Cyber Physical Environments for Micro Assembly. , 2015, , .		1
62	Design of Augmented Reality based training frameworks for Gateway contexts in support of the Moon Mission. , 2020, , .		1
63	Role of Immersive Simulation and Cyber Technology based Approaches in Supporting Learning and Curriculum Innovation. , 2020, , .		1
64	The Design of a HCC Based Mixed Reality User Interface to support training of Astronauts for NASA's Moon Mission. , 2022, , .		1
65	A Simulation Framework for Cell Manipulation. , 2006, , .		0
66	An Internet-of-Things Based Cyber-Physical Test Bed for Collaborative Manufacturing. , 2016, , .		0
67	An Internet-of-Things Based Framework for Collaborative Cyber Physical Tasks in Micro Assembly. , 2018, , .		0
68	The Role of Information Centric Frameworks in supporting Cyber-Physical Collaboration for Emerging Process Domains. , 2019, , .		0
69	Role of Affordance, Visual Density and Other HCC Criteria in Designing Virtual Learning Environments to Support STEM Learning for Autistic Students. , 2021, , .		0
70	An Experiential Approach to Support Learning of Cyber Physical Systems Concepts involving Mixed Reality Platforms. , 2021, , .		0