

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	The Design of a HCC Based Mixed Reality User Interface to support training of Astronauts for NASA's Moon Mission. , 2022, , .		1
2	Design of a Human Centered Computing (HCC) based Virtual Reality Simulator to train First Responders Involved in the COVID-19 Pandemic. , 2021, , .		10
3	Critical assessment of Shape Retrieval Tools (SRTs). International Journal of Advanced Manufacturing Technology, 2021, 116, 3431-3446.	3.0	18
4	Role of Affordance, Visual Density and Other HCC Criteria in Designing Virtual Learning Environments to Support STEM Learning for Autistic Students. , 2021, , .		0
5	An Experiential Approach to Support Learning of Cyber Physical Systems Concepts involving Mixed Reality Platforms. , 2021, , .		0
6	A Cyber-Human based Integrated Assessment approach for Orthopedic Surgical Training. , 2020, , .		8
7	Design of Augmented Reality based training frameworks for Gateway contexts in support of the Moon Mission. , 2020, , .		1
8	Role of Immersive Simulation and Cyber Technology based Approaches in Supporting Learning and Curriculum Innovation. , 2020, , .		1
9	Immersive Virtual Reality based Training and Assessment of an Orthopedic Surgical Process. , 2020, , .		2
10	Design and Assessment of Virtual Learning Environments to Support STEM Learning for Autistic Students. , 2020, , .		10
11	The Role of Information Centric Frameworks in supporting Cyber-Physical Collaboration for Emerging Process Domains. , 2019, , .		0
12	A shape modification app and cyber-physical framework for collaborative manufacturing. Procedia Manufacturing, 2019, 34, 932-939.	1.9	4
13	An Internet-of-Things (IoT) based cyber manufacturing framework for the assembly of microdevices. International Journal of Computer Integrated Manufacturing, 2019, 32, 430-440.	4.6	23
14	A Virtual Reality Enhanced Cyber-Human Framework for Orthopedic Surgical Training. IEEE Systems Journal, 2019, 13, 3501-3512.	4.6	23
15	Exploring Immersive Simulation based Design Frameworks in Support of the Moon Mission. , 2019, , .		5
16	Design of Cyber-Human Frameworks for Immersive Learning. , 2019, , .		4
17	Exploring the role of Simulation-Based Design principles in support of transportation and material handling activities for the Lunar Mission. , 2019, , .		2
18	An Advanced Cyber Physical Framework for Micro Devices Assembly. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 92-106.	9.3	18

#	ARTICLE	IF	CITATIONS
19	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
20	A next-generation IoT-based collaborative framework for electronics assembly. International Journal of Advanced Manufacturing Technology, 2018, 96, 39-52.	3.0	22
21	An advanced simulator for orthopedic surgical training. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 305-319.	2.8	57
22	Design of an Immersive Simulator for Orthopedic Surgical Training. , 2018, , .		6
23	An Internet-of-Things Based Framework for Collaborative Cyber Physical Tasks in Micro Assembly. , 2018, , .		0
24	A Virtual Reality enhanced Cyber Physical Framework to support Simulation based Training of Orthopedic Surgical Procedures. , 2018, , .		5
25	A Collaborative Manufacturing Approach supporting adoption of IoT Principles in Micro Devices Assembly. Procedia Manufacturing, 2018, 26, 1265-1277.	1.9	4
26	Simulation Based Design Approaches to Study Transportation and Habitat Alternatives for Deep Space Missions. , 2018, , .		5
27	Collaborative Remote Laboratories for Serving Sciences and Engineering Education in Iraq: Rexnet Project. , 2018, , .		4
28	An IoMT based cyber training framework for orthopedic surgery using Next Generation Internet technologies. Informatics in Medicine Unlocked, 2018, 12, 128-137.	3.4	44
29	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
30	Design of VR based orthopedic simulation environments using emerging technologies. , 2018, , .		5
31	A conceptual framework for supporting UAV based cyber physical weather monitoring activities. , 2018, , .		7
32	Next generation cyber physical frameworks for electronics manufacturing. , 2018, , .		3
33	A distributed collaborative simulation environment for orthopedic surgical training. , 2017, , .		9
34	A next generation collaborative system for micro devices assembly. , 2017, , .		2
35	A cyber training framework for orthopedic surgery. Cogent Medicine, 2017, 4, 1419792.	0.7	9
36	Foundational elements of next generation cyber physical and IoT frameworks for distributed collaboration. , 2017, , .		8

#	ARTICLE	IF	CITATIONS
37	A virtual reality based internet-of-things (IoT) framework for micro devices assembly. , 2017, , .		2
38	Development of a Virtual Reality Based Simulation Environment for Orthopedic Surgical Training. Lecture Notes in Computer Science, 2017, , 206-214.	1.3	4
39	An Internet of Things (IoT)-based collaborative framework for advanced manufacturing. International Journal of Advanced Manufacturing Technology, 2016, 84, 1141.	3.0	52
40	An Internet-of-Things Based Cyber-Physical Test Bed for Collaborative Manufacturing. , 2016, , .		0
41	New perspectives for the future interoperable enterprise systems. Computers in Industry, 2016, 79, 47-63.	9.9	103
42	A review of micro-devices assembly techniques and technology. International Journal of Advanced Manufacturing Technology, 2016, 83, 1569-1581.	3.0	45
43	The Creation of Collaborative Cyber Physical Environments for Micro Assembly. , 2015, , .		1
44	An Internet of Things (IoT) Based Cyber Physical Framework for Advanced Manufacturing. Lecture Notes in Computer Science, 2015, , 66-74.	1.3	6
45	VREM: An advanced virtual environment for micro assembly. International Journal of Advanced Manufacturing Technology, 2014, 72, 47-56.	3.0	28
46	Virtual Learning Environments in engineering and STEM education. , 2013, , .		21
47	Information systems for enterprise integration, interoperability and networking: theory and applications. Enterprise Information Systems, 2013, 7, 1-6.	4.7	104
48	Collaborative virtual environments for orthopedic surgery. , 2013, , .		26
49	A next generation collaborative framework for advanced manufacturing. , 2013, , .		6
50	An Information Model for Designing Virtual Environments for Orthopedic Surgery. Lecture Notes in Computer Science, 2013, , 218-227.	1.3	6
51	Information Centric Engineering (ICE) Frameworks for Advanced Manufacturing Enterprises. Lecture Notes in Computer Science, 2013, , 47-56.	1.3	6
52	A Virtual Factory Environment to support Process Design in Micro Assembly Domains. Computer-Aided Design and Applications, 2011, 8, 119-127.	0.6	5
53	A Cyber Physical Test Bed for collaborative Micro Assembly engineering. , 2010, , .		4
54	A Virtual Environment for Satellite Assembly. Computer-Aided Design and Applications, 2008, 5, 526-538.	0.6	14

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55	An Advanced Collaborative Framework for Micro Assembly. , 2007, , .		4
56	Assembly and manipulation of micro devicesâ€”A state of the art survey. Robotics and Computer-Integrated Manufacturing, 2007, 23, 580-588.	9.9	93
57	Virtual engineering approaches in product and process design. International Journal of Advanced Manufacturing Technology, 2007, 31, 846-856.	3.0	80
58	Micro devices assembly using virtual environments. Journal of Intelligent Manufacturing, 2007, 18, 361-369.	7.3	11
59	A distributed internet-based framework for manufacturing planning. International Journal of Advanced Manufacturing Technology, 2006, 27, 619-624.	3.0	10
60	The Creation of an Information Based Manufacturing Framework for micro devices assembly: A discussion of the path planning and virtual assembly modules. , 2006, , .		2
61	Modeling of van der Waals Forces during the Assembly of Micro Devices. , 2006, , .		1
62	A Simulation Framework for Cell Manipulation. , 2006, , .		0
63	Development of a virtual and physical work cell to assemble micro-devices. Robotics and Computer-Integrated Manufacturing, 2005, 21, 431-441.	9.9	23
64	A review of gripping and manipulation techniques for micro-assembly applications. International Journal of Production Research, 2005, 43, 819-828.	7.5	73
65	TAMIL: an integrated fixture design system for prismatic parts. International Journal of Computer Integrated Manufacturing, 2004, 17, 421-434.	4.6	15
66	VIRAM: A Virtual Reality Environment for the Assembly of Micro Devices. , 2004, , .		2
67	Computer aided fixture design: Using information intensive function models in the development of automated fixture design systems. Journal of Manufacturing Systems, 2002, 21, 58-71.	13.9	32
68	A Clamping Design Approach for Automated Fixture Design. International Journal of Advanced Manufacturing Technology, 2001, 18, 784-789.	3.0	27
69	Computer-Aided Fixture Design - A Review and Future Trends. International Journal of Advanced Manufacturing Technology, 2001, 18, 790-793.	3.0	59
70	A virtual prototyping test bed for electronics assembly. , 0, , .		9