

Jeremy Straub

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

152
papers

773
citations

13
h-index

22
g-index

284
ext. papers

1,248
ext. citations

2.3
avg, IF

5.43
L-index

#	Paper	IF	Citations
152	Initial Work on the Characterization of Additive Manufacturing (3D Printing) Using Software Image Analysis. <i>Machines</i> , 2015 , 3, 55-71	2.9	83
151	Utilizing in-situ resources and 3D printing structures for a manned Mars mission. <i>Acta Astronautica</i> , 2015 , 107, 317-326	2.9	59
150	Development of a Large, Low-Cost, Instant 3D Scanner. <i>Technologies</i> , 2014 , 2, 76-95	2.4	47
149	In search of technology readiness level (TRL) 10. <i>Aerospace Science and Technology</i> , 2015 , 46, 312-320	4.9	42
148	OpenOrbiter: A Low-Cost, Educational Prototype CubeSat Mission Architecture. <i>Machines</i> , 2013 , 1, 1-32	2.9	27
147	Characterization of a Large, Low-Cost 3D Scanner. <i>Technologies</i> , 2015 , 3, 19-36	2.4	23
146	An Assessment of Educational Benefits from the OpenOrbiter Space Program. <i>Education Sciences</i> , 2013 , 3, 259-278	2.2	22
145	Unmanned aerial systems: Consideration of the use of force for law enforcement applications. <i>Technology in Society</i> , 2014 , 39, 100-109	6.3	22
144	Fast relocalization for visual odometry using binary features 2013 ,		20
143	A Characterization of the Utility of Using Artificial Intelligence to Test Two Artificial Intelligence Systems. <i>Computers</i> , 2013 , 2, 67-87	1.9	17
142	Evaluation of the Educational Impact of Participation Time in a Small Spacecraft Development Program. <i>Education Sciences</i> , 2014 , 4, 141-154	2.2	15
141	Classifying Fake News Articles Using Natural Language Processing to Identify In-Article Attribution as a Supervised Learning Estimator 2019 ,		14
140	The open prototype for educational NanoSats: Fixing the other side of the small satellite cost equation 2013 ,		14
139	Protection from Fake News—The Need for Descriptive Factual Labeling for Online Content. <i>Future Internet</i> , 2021 , 13, 142	3.3	12
138	A space-to-space microwave wireless power transmission experiential mission using small satellites. <i>Acta Astronautica</i> , 2014 , 103, 193-203	2.9	11
137	An Interconnected Architecture for an Emergency Medical Response Unmanned Aerial System 2017 ,		11
136	A Blackboard-style decision-making system for multi-tier craft control and its evaluation. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2015 , 27, 763-777	2	9

135	Student Expectations from Participating in a Small Spacecraft Development Program. <i>Aerospace</i> , 2014 , 1, 18-30	2.5	8
134	An expert system for the prediction of student performance in an initial computer science course 2017 ,		7
133	Automated testing and quality assurance of 3D printing/3D printed hardware: Assessment for quality assurance and cybersecurity purposes 2016 ,		7
132	Consideration of the use of autonomous, non-recallable unmanned vehicles and programs as a deterrent or threat by state actors and others. <i>Technology in Society</i> , 2016 , 44, 39-47	6.3	7
131	Orbit-to-ground Wireless Power Transfer test mission 2013 ,		7
130	Concepts for 3D Printing-Based Self-Replicating Robot Command and Coordination Techniques. <i>Machines</i> , 2017 , 5, 12	2.9	7
129	Model Based Data Transmission: Analysis of Link Budget Requirement Reduction. <i>Communications and Network</i> , 2012 , 04, 278-287	0.6	7
128	Expert system gradient descent style training: Development of a defensible artificial intelligence technique. <i>Knowledge-Based Systems</i> , 2021 , 228, 107275	7.3	7
127	Physical security and cyber security issues and human error prevention for 3D printed objects: detecting the use of an incorrect printing material 2017 ,		6
126	Identifying positioning-based attacks against 3D printed objects and the 3D printing process 2017 ,		6
125	An approach to detecting deliberately introduced defects and micro-defects in 3D printed objects 2017 ,		6
124	An incremental and approximate local outlier probability algorithm for intrusion detection and its evaluation. <i>Journal of Cyber Security Technology</i> , 2017 , 1, 75-87	1.3	6
123	Extending the Student Qualitative Undertaking Involvement Risk Model. <i>Journal of Aerospace Technology and Management</i> , 2014 , 6, 333-352	0.7	6
122	Multi-Tier Exploration: An Architecture for Dramatically Increasing Mission ROI 2012 ,		6
121	A Pathway to Small Satellite Market Growth. <i>Advances in Aerospace Science and Technology</i> , 2016 , 01, 14-20	0.5	6
120	Mutual assured destruction in information, influence and cyber warfare: Comparing, contrasting and combining relevant scenarios. <i>Technology in Society</i> , 2019 , 59, 101177	6.3	5
119	The Use of the Blackboard Architecture for a Decision Making System for the Control of Craft with Various Actuator and Movement Capabilities 2014 ,		5
118	Assessment of examinations in computer science doctoral education. <i>Computer Science Education</i> , 2014 , 24, 25-70	1.8	5

117	Space Solar Power Satellite Systems as a Service Provider of Electrical Power for Lunar Industries 2013,		5
116	A data collection decision-making framework for a multi-tier collaboration of heterogeneous orbital, aerial, and ground craft 2013,		5
115	Modeling Attack, Defense and Threat Trees and the Cyber Kill Chain, ATT&CK and STRIDE Frameworks as Blackboard Architecture Networks 2020,		5
114	3D printing cybersecurity: detecting and preventing attacks that seek to weaken a printed object by changing fill level 2017,		4
113	Engineering Methodology for Student-Driven CubeSats. <i>Aerospace</i> , 2019 , 6, 54	2.5	4
112	Assessing the Value of the OpenOrbiter Program Research Experience for Undergraduates. <i>SAGE Open</i> , 2014 , 4, 215824401455171	1.5	4
111	Fusion of data from multiple sensors with model-based data analysis 2013,		4
110	An internetworked self-driving car system-of-systems 2017,		4
109	Comparing the effect of pruning on a best path and a naïve-approach blackboard solver. <i>International Journal of Automation and Computing</i> , 2015 , 12, 503-510	3.5	4
108	Multi-Tier Planetary Exploration: A New Autonomous Control Paradigm 2012,		4
107	INCREASING NATIONAL SPACE ENGINEERING PRODUCTIVITY AND EDUCATIONAL OPPORTUNITIES VIA INTREPRENEURSHIP, ENTREPRENEURSHIP, AND INNOVATION. <i>Technology and Innovation</i> , 2013 , 15, 211-226	0.7	4
106	Attitudes towards Autonomous Data Collection and Analysis in the Planetary Science Community. <i>Galaxies</i> , 2013 , 1, 44-64	2	4
105	Evaluation of a Multi-Goal Solver for Use in a Blackboard Architecture. <i>International Journal of Decision Support System Technology</i> , 2014 , 6, 1-13	0.7	4
104	University Community Members Perceptions of Labels for Online Media. <i>Future Internet</i> , 2021 , 13, 281	3.3	4
103	Genetic algorithm for flood detection and evacuation route planning 2017,		3
102	Testing automation for an intrusion detection system 2017,		3
101	Human face images from multiple perspectives with lighting from multiple directions with no occlusion, glasses and hat. <i>Data in Brief</i> , 2019 , 22, 522-529	1.2	3
100	The use of 3D scanning for sporting applications 2015,		3

99	Does the use of space solar power for in-space activities really make sense: An updated economic assessment. <i>Space Policy</i> , 2015 , 31, 21-26	1.4	3
98	A Distributed Blackboard Approach Based Upon a Boundary Node Concept. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2016 , 82, 467-478	2.9	3
97	Self-Reconfiguring Modular Robot Learning for Lower-Cost Space Applications 2019 ,		3
96	Above the cloud computing: applying cloud computing principles to create an orbital services model 2013 ,		3
95	Validating a UAV artificial intelligence control system using an autonomous test case generator 2013 ,		3
94	Space Solar Power as an Enabler for a Human Mission to Mars 2013 ,		3
93	Integrating Model-Based Transmission Reduction into a Multi-Tier Architecture 2013 ,		3
92	Characterization of Extended and Simplified Intelligent Water Drop (SIWD) Approaches and Their Comparison to the Intelligent Water Drop (IWD) Approach 2013 ,		3
91	Teaching software project management using project based learning (PBL) and group projects 2017 ,		3
90	Extending the orbital services model beyond computing, communications and sensing 2014 ,		3
89	An open-source scheduler for small satellites 2013 ,		3
88	An Expert System for the Prediction of Student Performance in an Initial Computer Science Course (Abstract Only) 2016 ,		3
87	Autonomous navigation and control of unmanned aerial systems in the national airspace 2016 ,		3
86	Toward requirements engineering of cyber-physical systems: Modeling CubeSat 2016 ,		3
85	Using deep learning to detect network intrusions and malware in autonomous robots 2017 ,		2
84	Toward model-based requirement engineering tool support 2017 ,		2
83	Zone based hybrid approach for clustering and data collection in wireless sensor networks 2017 ,		2
82	Autonomous Distributed Electronic Warfare System of Systems 2019 ,		2

81	Impact of lighting and attire on 3D scanner performance 2015 ,		2
80	An Intelligent Attitude Determination and Control System for a CubeSat Class Spacecraft 2015 ,		2
79	OpenOrbiter Mechanical Design: a New Approach to the Design of a 1-U CubeSat 2015 ,		2
78	Results from the First National Survey of Student Outcomes from Small Satellite Program Participation 2015 ,		2
77	Characterization of internal geometry / covered surface defects with a visible light sensing system 2016 ,		2
76	Command of a multi-tier robotic network with local decision-making capabilities. <i>International Journal of Space Science and Engineering</i> , 2014 , 2, 225	0.3	2
75	CyberSecurity considerations for an interconnected self-driving car system of systems 2017 ,		2
74	In Search of Standards for the Operation of Small Satellites 2015 ,		2
73	Application of a Maritime Framework to Space: Deep Space Conflict and Warfare Scenario. <i>Astropolitics</i> , 2015 , 13, 65-77	0.2	2
72	The OpenOrbiter CubeSat as a system-of-systems (SoS) and how SoS engineering (SoSE) Aids CubeSat design 2015 ,		2
71	Evaluation of a Reputation Management Technique for Autonomous Vehicles. <i>Future Internet</i> , 2022 , 14, 31	3.3	2
70	Fake news identification: a comparison of parts-of-speech and N-grams with neural networks 2019 ,		2
69	Analysis of the likelihood of quantum computing proliferation. <i>Technology in Society</i> , 2022 , 68, 101880	6.3	2
68	Application of Model-Based Data Transmission Techniques to Gravitational Model Data. <i>Journal of Data Analysis and Information Processing</i> , 2013 , 01, 46-57	0.5	2
67	A Design for Inspiring Students with Near-Space Exploration. <i>Journal of Aviation/Aerospace Education & Research</i> , 2013 ,		2
66	Automating maintenance for a one-way transmitting blackboard system used for autonomous multi-tier control. <i>Expert Systems</i> , 2016 , 33, 518-530	2.1	2
65	Design for an in-space 3D printer 2016 ,		2
64	Alignment issues, correlation techniques and their assessment for a visible light imaging-based 3D printer quality control system 2016 ,		2

63	Manually Classified Real and Fake News Articles 2019 ,		2
62	Correlated lip motion and voice audio data. <i>Data in Brief</i> , 2018 , 21, 856-860	1.2	2
61	Americans' Perspectives on Online Media Warning Labels.. <i>Behavioral Sciences (Basel, Switzerland)</i> , 2022 , 12,	2.3	2
60	Analysis of a space debris laser removal system 2017 ,		1
59	An update on the OpenOrbiter I mission 2017 ,		1
58	A combined system for 3D printing cybersecurity 2017 ,		1
57	Characterization of command software for an autonomous attitude determination and control system for spacecraft. <i>International Journal of Computers and Applications</i> , 2017 , 39, 198-209	0.8	1
56	A Dataset for Comparing Mirrored and Non-Mirrored Male Bust Images for Facial Recognition. <i>Data</i> , 2019 , 4, 26	2.3	1
55	Analysis of the acceptance of autonomous planetary science data collection by field of inquiry. <i>Advances in Space Research</i> , 2015 , 55, 2708-2718	2.4	1
54	Characterization of 3D printing output using an optical sensing system 2015 ,		1
53	Evaluation of the use of laser scanning to create key models for 3D printing separate from and augmenting visible light sensing 2016 ,		1
52	Powering an in-space 3D printer using solar light energy 2016 ,		1
51	Anti-Drone and Anti-Autonomy: Achieving Drone Control via System Logic Analysis 2019 ,		1
50	Intelligent water drops for aerospace and defense applications 2014 ,		1
49	Sensor and computing resource management for a small satellite 2013 ,		1
48	A Human Proximity Operations System test case validation approach 2013 ,		1
47	Validating an artificial intelligence human proximity operations system with test cases 2013 ,		1
46	Small satellites with micro-propulsion for communications with the Lunar South Pole Aitkens Basin 2013 ,		1

45	Automated testing of a self-driving vehicle system 2017 ,		1
44	Evaluation of high-altitude balloons as a learning technology. <i>International Journal of Learning Technology</i> , 2015 , 10, 94	0.5	1
43	A very low-cost 3D scanning system for whole-body imaging 2015 ,		1
42	An overview of the OpenOrbiter autonomous operating software 2015 ,		1
41	A Novel Deployable Array Architecture for Micro to Full Sized Satellites 2014 ,		1
40	Assessment of the comparative efficiency of software-based Boolean, electronic, software-based fractional value and simplified quantum principal expert systems. <i>Expert Systems</i> ,	2.1	1
39	A modern Blackboard Architecture implementation with external command execution capability. <i>Software Impacts</i> , 2021 , 100183	1.8	1
38	Evaluation of Elements of a Prospective System to Alert Users to Intentionally Deceptive Content 2020 ,		1
37	Towards Operating Standards for Cube Satellites and Small Spacecraft. <i>Astropolitics</i> , 2017 , 15, 77-95	0.2	1
36	Introducing & Evaluating Nutrition Facts For Online Content 2020 ,		1
35	Defining, evaluating, preparing for and responding to a cyber Pearl Harbor. <i>Technology in Society</i> , 2021 , 65, 101599	6.3	1
34	Accelerated stress & reliability testing for software and cyber-physical systems 2016 ,		1
33	Evaluation of the use of 3D printing and imaging to create working replica keys 2016 ,		1
32	Development of origami-style solar panels for use in support of a Mars mission 2016 ,		1
31	Consideration of the use of origami-style solar panels for use on a terrestrial/orbital wireless power generation and transmission spacecraft 2016 ,		1
30	Consideration of the versatility of the Open Prototype for Educational NanoSats CubeSat design 2016 ,		1
29	Assessment of Gradient Descent Trained Rule-Fact Network Expert System Multi-Path Training Technique Performance. <i>Computers</i> , 2021 , 10, 103	1.9	1
28	Gradient descent training expert system. <i>Software Impacts</i> , 2021 , 10, 100121	1.8	1

27	Machine learning performance validation and training using a 'perfect' expert system. <i>MethodsX</i> , 2021 , 8, 101477	1.9	1
26	Assessment of Factors Impacting the Perception of Online Content Trustworthiness by Age, Education and Gender. <i>Societies</i> , 2022 , 12, 61	1.1	1
25	To Build, Buy, or in Between? 2017 , 37-52		0
24	CubeSats and Small Satellites. <i>International Journal of Aerospace Engineering</i> , 2019 , 2019, 1-3	0.9	0
23	Effects of international trafficking in arms regulations changes. <i>Communications of the ACM</i> , 2016 , 60, 39-41	2.5	0
22	Why Start a Small Spacecraft Program 2017 , 21-35		0
21	Simulation and Analysis of Self-Replicating Robot Decision-Making Systems. <i>Computers</i> , 2021 , 10, 9	1.9	0
20	Impact of techniques to reduce error in high error rule-based expert system gradient descent networks. <i>Journal of Intelligent Information Systems</i> , 1	2.1	0
19	Implementation of Hardware-Based Expert Systems and Comparison of Their Performance to Software-Based Expert Systems. <i>Machines</i> , 2021 , 9, 361	2.9	0
18	Assessment of Consumer Perception of Online Content Label Efficacy by Income Level, Party Affiliation and Online Use Levels. <i>Information (Switzerland)</i> , 2022 , 13, 252	2.6	0
17	Summative Assessment 2017 , 151-173		
16	Human Male Body Images from Multiple Perspectives with Multiple Lighting Settings. <i>Data</i> , 2019 , 4, 3	2.3	
15	A Comparison of Learning Technologies for Teaching Spacecraft Software Development. <i>Journal of Educational Technology Systems</i> , 2014 , 42, 417-446	8.2	
14	Assessment of correlations between computer science department performance and college type. <i>ACM Inroads</i> , 2019 , 10, 60-65	0.5	
13	Starting a Small Spacecraft Program: Types of Programs and Their Benefits and Drawbacks 2017 , 53-63		
12	Setting Educational Goals and Formative Assessment 2017 , 129-150		
11	Student Involvement and Risk 2017 , 101-128		
10	Forming a Program: Funding and Organizational Issues 2017 , 65-75		

9	Results of Prior Assessment Work and Its Utility 2017 , 175-222	
8	Forming a Program: Technical and Logistical Issues 2017 , 77-99	
7	Use of Intelligent Water Drops (IWD) for Intelligent Autonomous Force Deployment. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 791-801	0.4
6	Analysis of the changing demographics of computing doctoral degree recipients at U.S. universities and the implications of change. <i>ACM Inroads</i> , 2021 , 12, 26-36	0.5
5	Video Recordings of Male Face and Neck Movements for Facial Recognition and Other Purposes. <i>Data</i> , 2019 , 4, 130	2.3
4	Body Area Networks: A Data Sharing and Use Model Based on the Blackboard Architecture and Boundary Node Discovery. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 1-14	0.4
3	Lightweight Network Steganography for Distributed Electronic Warfare System Communications. <i>Transactions on Computational Science and Computational Intelligence</i> , 2021 , 437-447	0.9
2	Distributed Attack Deployment Capability for Modern Automated Penetration Testing. <i>Computers</i> , 2022 , 11, 33	1.9
1	Deceptive Content Labeling Survey Data from Two U.S. Midwestern Universities. <i>Data</i> , 2022 , 7, 26	2.3