Jeremy Straub

List of Publications by Year in Descending Order

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	Evaluation of a Reputation Management Technique for Autonomous Vehicles. *Future Internet*, **2022**, 14, 31	3.3	2
151	Analysis of the likelihood of quantum computing proliferation. *Technology in Society*, **2022**, 68, 101880	6.3	2
150	Americans' Perspectives on Online Media Warning Labels.. *Behavioral Sciences (Basel, Switzerland)*, **2022**, 12,	2.3	2
149	Distributed Attack Deployment Capability for Modern Automated Penetration Testing. *Computers*, **2022**, 11, 33	1.9	
148	Assessment of Factors Impacting the Perception of Online Content Trustworthiness by Age, Education and Gender. *Societies*, **2022**, 12, 61	1.1	1
147	Deceptive Content Labeling Survey Data from Two U.S. Midwestern Universities. *Data*, **2022**, 7, 26	2.3	
146	Assessment of Consumer Perception of Online Content Label Efficacy by Income Level, Party Affiliation and Online Use Levels. *Information (Switzerland)*, **2022**, 13, 252	2.6	0
145	A modern Blackboard Architecture implementation with external command execution capability. *Software Impacts*, **2021**, 100183	1.8	1
144	University Community Members Perceptions of Labels for Online Media. *Future Internet*, **2021**, 13, 281	3.3	4
143	Analysis of the changing demographics of computing doctoral degree recipients at U.S. universities and the implications of change. *ACM Inroads*, **2021**, 12, 26-36	0.5	
142	Defining, evaluating, preparing for and responding to a cyber Pearl Harbor. *Technology in Society*, **2021**, 65, 101599	6.3	1
141	Protection from Fake News The Need for Descriptive Factual Labeling for Online Content. *Future Internet*, **2021**, 13, 142	3.3	12
140	Simulation and Analysis of Self-Replicating Robot Decision-Making Systems. *Computers*, **2021**, 10, 9	1.9	0
139	Body Area Networks: A Data Sharing and Use Model Based on the Blackboard Architecture and Boundary Node Discovery. *Advances in Intelligent Systems and Computing*, **2021**, 1-14	0.4	
138	Assessment of Gradient Descent Trained Rule-Fact Network Expert System Multi-Path Training Technique Performance. *Computers*, **2021**, 10, 103	1.9	1
137	Expert system gradient descent style training: Development of a defensible artificial intelligence technique. *Knowledge-Based Systems*, **2021**, 228, 107275	7.3	7
136	Gradient descent training expert system. *Software Impacts*, **2021**, 10, 100121	1.8	1

135	Lightweight Network Steganography for Distributed Electronic Warfare System Communications. *Transactions on Computational Science and Computational Intelligence*, **2021**, 437-447	0.9	
134	Machine learning performance validation and training using a 'perfect' expert system. *MethodsX*, **2021**, 8, 101477	1.9	1
133	Implementation of Hardware-Based Expert Systems and Comparison of Their Performance to Software-Based Expert Systems. *Machines*, **2021**, 9, 361	2.9	0
132	Modeling Attack, Defense and Threat Trees and the Cyber Kill Chain, ATT&CK and STRIDE Frameworks as Blackboard Architecture Networks **2020**,		5
131	Evaluation of Elements of a Prospective System to Alert Users to Intentionally Deceptive Content **2020**,		1
130	Introducing & Evaluating Nutrition Facts for Online Content **2020**,		1
129	Autonomous Distributed Electronic Warfare System of Systems **2019**,		2
128	CubeSats and Small Satellites. *International Journal of Aerospace Engineering*, **2019**, 2019, 1-3	0.9	0
127	Engineering Methodology for Student-Driven CubeSats. *Aerospace*, **2019**, 6, 54	2.5	4
126	Human face images from multiple perspectives with lighting from multiple directions with no occlusion, glasses and hat. *Data in Brief*, **2019**, 22, 522-529	1.2	3
125	Classifying Fake News Articles Using Natural Language Processing to Identify In-Article Attribution as a Supervised Learning Estimator **2019**,		14
124	Human Male Body Images from Multiple Perspectives with Multiple Lighting Settings. *Data*, **2019**, 4, 3	2.3	
123	A Dataset for Comparing Mirrored and Non-Mirrored Male Bust Images for Facial Recognition. *Data* , **2019**, 4, 26	2.3	1
122	Mutual assured destruction in information, influence and cyber warfare: Comparing, contrasting and combining relevant scenarios. *Technology in Society*, **2019**, 59, 101177	6.3	5
121	Anti-Drone and Anti-Autonomy: Achieving Drone Control via System Logic Analysis **2019**,		1
120	Self-Reconfiguring Modular Robot Learning for Lower-Cost Space Applications **2019**,		3
119	Fake news identification: a comparison of parts-of-speech and N-grams with neural networks **2019**,		2
118	Assessment of correlations between computer science department performance and college type. *ACM Inroads*, **2019**, 10, 60-65	0.5	

117	Video Recordings of Male Face and Neck Movements for Facial Recognition and Other Purposes. *Data*, **2019**, 4, 130	2.3	
116	Manually Classified Real and Fake News Articles **2019**,		2
115	Use of Intelligent Water Drops (IWD) for Intelligent Autonomous Force Deployment. *Advances in Intelligent Systems and Computing*, **2018**, 791-801	0.4	
114	Correlated lip motion and voice audio data. *Data in Brief*, **2018**, 21, 856-860	1.2	2
113	Summative Assessment **2017**, 151-173		
112	To Build, Buy, or in Between? **2017**, 37-52		0
111	Using deep learning to detect network intrusions and malware in autonomous robots **2017**,		2
110	Genetic algorithm for flood detection and evacuation route planning **2017**,		3
109	Analysis of a space debris laser removal system **2017**,		1
108	Toward model-based requirement engineering tool support **2017**,		2
107	An update on the OpenOrbiter I mission **2017**,		1
106	Physical security and cyber security issues and human error prevention for 3D printed objects: detecting the use of an incorrect printing material **2017**,		6
105	A combined system for 3D printing cybersecurity **2017**,		1
104	Identifying positioning-based attacks against 3D printed objects and the 3D printing process **2017**,		6
103	An approach to detecting deliberately introduced defects and micro-defects in 3D printed objects **2017**,		6
102	3D printing cybersecurity: detecting and preventing attacks that seek to weaken a printed object by changing fill level **2017**,		4
101	Characterization of command software for an autonomous attitude determination and control system for spacecraft. *International Journal of Computers and Applications*, **2017**, 39, 198-209	0.8	1
100	Zone based hybrid approach for clustering and data collection in wireless sensor networks **2017**,		2

99	An incremental and approximate local outlier probability algorithm for intrusion detection and its evaluation. *Journal of Cyber Security Technology*, **2017**, 1, 75-87	1.3	6
98	Testing automation for an intrusion detection system **2017**,		3
97	An expert system for the prediction of student performance in an initial computer science course **2017**,		7
96	An internetworked self-driving car system-of-systems **2017**,		4
95	CyberSecurity considerations for an interconnected self-driving car system of systems **2017**,		2
94	An Interconnected Architecture for an Emergency Medical Response Unmanned Aerial System **2017**,		11
93	Teaching software project management using project based learning (PBL) and group projects **2017**,		3
92	Automated testing of a self-driving vehicle system **2017**,		1
91	Concepts for 3D Printing-Based Self-Replicating Robot Command and Coordination Techniques. *Machines*, **2017**, 5, 12	2.9	7
90	Towards Operating Standards for Cube Satellites and Small Spacecraft. *Astropolitics*, **2017**, 15, 77-95	0.2	1
89	Why Start a Small Spacecraft Program **2017**, 21-35		0
88	Starting a Small Spacecraft Program: Types of Programs and Their Benefits and Drawbacks **2017**, 53-63		
87	Setting Educational Goals and Formative Assessment **2017**, 129-150		
86	Student Involvement and Risk **2017**, 101-128		
85	Forming a Program: Funding and Organizational Issues **2017**, 65-75		
84	Results of Prior Assessment Work and Its Utility **2017**, 175-222		
83	Forming a Program: Technical and Logistical Issues **2017**, 77-99		
82	Automated testing and quality assurance of 3D printing/3D printed hardware: Assessment for quality assurance and cybersecurity purposes **2016**,		7

81	Evaluation of the use of laser scanning to create key models for 3D printing separate from and augmenting visible light sensing **2016**,		1
80	Powering an in-space 3D printer using solar light energy **2016**,		1
79	Characterization of internal geometry / covered surface defects with a visible light sensing system **2016**,		2
78	Consideration of the use of autonomous, non-recallable unmanned vehicles and programs as a deterrent or threat by state actors and others. *Technology in Society*, **2016**, 44, 39-47	6.3	7
77	A Distributed Blackboard Approach Based Upon a Boundary Node Concept. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2016**, 82, 467-478	2.9	3
76	An Expert System for the Prediction of Student Performance in an Initial Computer Science Course (Abstract Only) **2016**,		3
75	A Pathway to Small Satellite Market Growth. *Advances in Aerospace Science and Technology*, **2016**, 01, 14-20	0.5	6
74	Effects of international trafficking in arms regulations changes. *Communications of the ACM*, **2016**, 60, 39-41	2.5	0
73	Automating maintenance for a one-way transmitting blackboard system used for autonomous multi-tier control. *Expert Systems*, **2016**, 33, 518-530	2.1	2
72	Accelerated stress & reliability testing for software and cyber-physical systems **2016**,		1
71	Design for an in-space 3D printer **2016**,		2
70	Evaluation of the use of 3D printing and imaging to create working replica keys **2016**,		1
69	Development of origami-style solar panels for use in support of a Mars mission **2016**,		1
68	Consideration of the use of origami-style solar panels for use on a terrestrial/orbital wireless power generation and transmission spacecraft **2016**,		1
67	Alignment issues, correlation techniques and their assessment for a visible light imaging-based 3D printer quality control system **2016**,		2
66	Autonomous navigation and control of unmanned aerial systems in the national airspace **2016**,		3
65	Toward requirements engineering of cyber-physical systems: Modeling CubeSat **2016**,		3
64	Consideration of the versatility of the Open Prototype for Educational NanoSats CubeSat design **2016**,		1

63	In search of technology readiness level (TRL) 10. *Aerospace Science and Technology*, **2015**, 46, 312-320	4.9	42
62	Analysis of the acceptance of autonomous planetary science data collection by field of inquiry. *Advances in Space Research*, **2015**, 55, 2708-2718	2.4	1
61	Characterization of a Large, Low-Cost 3D Scanner. *Technologies*, **2015**, 3, 19-36	2.4	23
60	Impact of lighting and attire on 3D scanner performance **2015**,		2
59	The use of 3D scanning for sporting applications **2015**,		3
58	Characterization of 3D printing output using an optical sensing system **2015**,		1
57	An Intelligent Attitude Determination and Control System for a CubeSat Class Spacecraft **2015**,		2
56	A Blackboard-style decision-making system for multi-tier craft control and its evaluation. *Journal of Experimental and Theoretical Artificial Intelligence*, **2015**, 27, 763-777	2	9
55	OpenOrbiter Mechanical Design: a New Approach to the Design of a 1-U CubeSat **2015**,		2
54	Results from the First National Survey of Student Outcomes from Small Satellite Program Participation **2015**,		2
53	Utilizing in-situ resources and 3D printing structures for a manned Mars mission. *Acta Astronautica*, **2015**, 107, 317-326	2.9	59
52	Does the use of space solar power for in-space activities really make sense: An updated economic assessment. *Space Policy*, **2015**, 31, 21-26	1.4	3
51	Evaluation of high-altitude balloons as a learning technology. *International Journal of Learning Technology*, **2015**, 10, 94	0.5	1
50	In Search of Standards for the Operation of Small Satellites **2015**,		2
49	Initial Work on the Characterization of Additive Manufacturing (3D Printing) Using Software Image Analysis. *Machines*, **2015**, 3, 55-71	2.9	83
48	A very low-cost 3D scanning system for whole-body imaging **2015**,		1
47	Comparing the effect of pruning on a best path and a naïve-approach blackboard solver. *International Journal of Automation and Computing*, **2015**, 12, 503-510	3.5	4
46	Application of a Maritime Framework to Space: Deep Space Conflict and Warfare Scenario. *Astropolitics*, **2015**, 13, 65-77	0.2	2

45	An overview of the OpenOrbiter autonomous operating software **2015**,		1
44	The OpenOrbiter CubeSat as a system-of-systems (SoS) and how SoS engineering (SoSE) Aids CubeSat design **2015**,		2
43	The Use of the Blackboard Architecture for a Decision Making System for the Control of Craft with Various Actuator and Movement Capabilities **2014**,		5
42	A space-to-space microwave wireless power transmission experiential mission using small satellites. *Acta Astronautica*, **2014**, 103, 193-203	2.9	11
41	Command of a multi-tier robotic network with local decision-making capabilities. *International Journal of Space Science and Engineering*, **2014**, 2, 225	0.3	2
40	Intelligent water drops for aerospace and defense applications **2014**,		1
39	Assessing the Value of the OpenOrbiter Program's Research Experience for Undergraduates. *SAGE Open*, **2014**, 4, 215824401455171	1.5	4
38	Extending the Student Qualitative Undertaking Involvement Risk Model. *Journal of Aerospace Technology and Management*, **2014**, 6, 333-352	0.7	6
37	Development of a Large, Low-Cost, Instant 3D Scanner. *Technologies*, **2014**, 2, 76-95	2.4	47
36	Student Expectations from Participating in a Small Spacecraft Development Program. *Aerospace*, **2014**, 1, 18-30	2.5	8
35	Evaluation of the Educational Impact of Participation Time in a Small Spacecraft Development Program. *Education Sciences*, **2014**, 4, 141-154	2.2	15
34	Assessment of examinations in computer science doctoral education. *Computer Science Education*, **2014**, 24, 25-70	1.8	5
33	A Novel Deployable Array Architecture for Micro to Full Sized Satellites **2014**,		1
32	A Comparison of Learning Technologies for Teaching Spacecraft Software Development. *Journal of Educational Technology Systems*, **2014**, 42, 417-446	8.2	
31	Extending the orbital services model beyond computing, communications and sensing **2014**,		3
30	Unmanned aerial systems: Consideration of the use of force for law enforcement applications. *Technology in Society*, **2014**, 39, 100-109	6.3	22
29	Evaluation of a Multi-Goal Solver for Use in a Blackboard Architecture. *International Journal of Decision Support System Technology*, **2014**, 6, 1-13	0.7	4
28	Fusion of data from multiple sensors with model-based data analysis **2013**,		4

27	The open prototype for educational NanoSats: Fixing the other side of the small satellite cost equation **2013**,		14
26	Sensor and computing resource management for a small satellite **2013**,		1
25	Above the cloud computing: applying cloud computing principles to create an orbital services model **2013**,		3
24	Validating a UAV artificial intelligence control system using an autonomous test case generator **2013**,		3
23	A Human Proximity Operations System test case validation approach **2013**,		1
22	Validating an artificial intelligence human proximity operations system with test cases **2013**,		1
21	Orbit-to-ground Wireless Power Transfer test mission **2013**,		7
20	Small satellites with micro-propulsion for communications with the Lunar South Pole Aitkens Basin **2013**,		1
19	Space Solar Power as an Enabler for a Human Mission to Mars **2013**,		3
18	Integrating Model-Based Transmission Reduction into a Multi-Tier Architecture **2013**,		3
17	Characterization of Extended and Simplified Intelligent Water Drop (SIWD) Approaches and Their Comparison to the Intelligent Water Drop (IWD) Approach **2013**,		3
16	An Assessment of Educational Benefits from the OpenOrbiter Space Program. *Education Sciences*, **2013**, 3, 259-278	2.2	22
15	An open-source scheduler for small satellites **2013**,		3
14	Fast relocalization for visual odometry using binary features **2013**,		20
13	Space Solar Power Satellite Systems as a Service Provider of Electrical Power for Lunar Industries **2013**,		5
12	A data collection decision-making framework for a multi-tier collaboration of heterogeneous orbital, aerial, and ground craft **2013**,		5
11	INCREASING NATIONAL SPACE ENGINEERING PRODUCTIVITY AND EDUCATIONAL OPPORTUNITIES VIA INTREPRENEURSHIP, ENTREPRENEURSHIP, AND INNOVATION. *Technology and Innovation*, **2013**, 15, 211-226	0.7	4
10	A Characterization of the Utility of Using Artificial Intelligence to Test Two Artificial Intelligence Systems. *Computers*, **2013**, 2, 67-87	1.9	17

9	Attitudes towards Autonomous Data Collection and Analysis in the Planetary Science Community. *Galaxies*, **2013**, 1, 44-64	2	4
8	OpenOrbiter: A Low-Cost, Educational Prototype CubeSat Mission Architecture. *Machines*, **2013**, 1, 1-32	2.9	27
7	Application of Model-Based Data Transmission Techniques to Gravitational Model Data. *Journal of Data Analysis and Information Processing*, **2013**, 01, 46-57	0.5	2
6	A Design for Inspiring Students with Near-Space Exploration. *Journal of Aviation/Aerospace Education & Research*, **2013**,		2
5	Multi-Tier Exploration: An Architecture for Dramatically Increasing Mission ROI **2012**,		6
4	Multi-Tier Planetary Exploration: A New Autonomous Control Paradigm **2012**,		4
3	Model Based Data Transmission: Analysis of Link Budget Requirement Reduction. *Communications and Network*, **2012**, 04, 278-287	0.6	7
2	Assessment of the comparative efficiency of software-based Boolean, electronic, software-based fractional value and simplified quantum principal expert systems. *Expert Systems*,	2.1	1
1	Impact of techniques to reduce error in high error rule-based expert system gradient descent networks. *Journal of Intelligent Information Systems*,1	2.1	0