

Kiri L Wagstaff

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,149
citations

471509

17
h-index

414414

32
g-index

53
all docs

53
docs citations

53
times ranked

1319
citing authors

#	ARTICLE	IF	CITATIONS
1	Unsupervised detection of Saturn magnetic field boundary crossings from plasma spectrometer data. Computers and Geosciences, 2022, 161, 105040.	4.2	3
2	Using machine learning to reduce observational biases when detecting new impacts on Mars. Icarus, 2022, 386, 115146.	2.5	3
3	Visualizing image content to explain novel image discovery. Data Mining and Knowledge Discovery, 2020, 34, 1777-1804.	3.7	2
4	Enabling Onboard Detection of Events of Scientific Interest for the Europa Clipper Spacecraft. , 2019, , .		11
5	Novelty Detection for Multispectral Images with Application to Planetary Exploration. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 9484-9491.	4.9	25
6	Toward Generalized Change Detection on Planetary Surfaces With Convolutional Autoencoders and Transfer Learning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3900-3918.	4.9	31
7	Onboard Autonomy on the Intelligent Payload Experiment CubeSat Mission. Journal of Aerospace Information Systems, 2017, 14, 307-315.	1.4	29
8	Marginalia in the digital age: Are digital reading devices meeting the needs of today's readers?. Library and Information Science Research, 2017, 39, 16-22.	2.0	9
9	Robotic space exploration agents. Science Robotics, 2017, 2, .	17.6	38
10	LIMITS ON FAST RADIO BURSTS FROM FOUR YEARS OF THE V-FASTR EXPERIMENT. Astrophysical Journal, 2016, 826, 223.	4.5	20
11	A Machine Learning Classifier for Fast Radio Burst Detection at the VLBA. Publications of the Astronomical Society of the Pacific, 2016, 128, 084503.	3.1	37
12	Welcome to AI Matters issue 4. AI Matters, 2015, 1, 3-3.	0.4	0
13	Welcome to AI Matter. AI Matters, 2015, 2, 3-3.	0.4	0
14	Enhanced flyby science with onboard computer vision: Tracking and surface feature detection at small bodies. Earth and Space Science, 2015, 2, 417-434.	2.6	9
15	Onboard machine learning classification of images by a cubesat in Earth orbit. AI Matters, 2015, 1, 38-40.	0.4	6
16	AUTONOMOUS REAL-TIME DETECTION OF PLUMES AND JETS FROM MOONS AND COMETS. Astrophysical Journal, 2014, 794, 43.	4.5	9
17	Machine learning for science and society. Machine Learning, 2014, 95, 1-9.	5.4	75
18	Real-Time Adaptive Event Detection in Astronomical Data Streams. IEEE Intelligent Systems, 2014, 29, 48-55.	4.0	3

#	ARTICLE	IF	CITATIONS
19	Field Demonstration of an Instrument Performing Automatic Classification of Geologic Surfaces. <i>Astrobiology</i> , 2014, 14, 486-501.	3.0	11
20	Welcome to AI Matters Issue 2. <i>AI Matters</i> , 2014, 1, 3-3.	0.4	0
21	Agile Science for Primitive Bodies and Deep Space Exploration. , 2014, , .		3
22	Semi-supervised Eigenbasis novelty detection. <i>Statistical Analysis and Data Mining</i> , 2013, 6, 195-204.	2.8	1
23	Smart, texture-sensitive instrument classification for in situ rock and layer analysis. <i>Geophysical Research Letters</i> , 2013, 40, 4188-4193.	4.0	17
24	A FRAMEWORK FOR INTERPRETING FAST RADIO TRANSIENTS SEARCH EXPERIMENTS: APPLICATION TO THE V-FASTR EXPERIMENT. <i>Astrophysical Journal</i> , 2013, 767, 4.	4.5	12
25	Dynamic Landmarking for Surface Feature Identification and Change Detection. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2012, 3, 1-22.	4.5	13
26	Surface Sulfur Detection via Remote Sensing and Onboard Classification. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2012, 3, 1-20.	4.5	6
27	LIMITS ON THE EVENT RATES OF FAST RADIO TRANSIENTS FROM THE V-FASTR EXPERIMENT. <i>Astrophysical Journal Letters</i> , 2012, 753, L36.	8.3	15
28	The VLBA Fast Radio Transient Experiment: Progress and Early Results. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 423-424.	0.0	0
29	Classification of ASKAP VAST Radio Light Curves. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 397-399.	0.0	4
30	DETECTION OF FAST RADIO TRANSIENTS WITH MULTIPLE STATIONS: A CASE STUDY USING THE VERY LONG BASELINE ARRAY. <i>Astrophysical Journal</i> , 2011, 735, 98.	4.5	21
31	V-FASTR: THE VLBA FAST RADIO TRANSIENTS EXPERIMENT. <i>Astrophysical Journal</i> , 2011, 735, 97.	4.5	47
32	Machine learning in space: extending our reach. <i>Machine Learning</i> , 2011, 84, 335-340.	5.4	19
33	The Commensal Real-Time ASKAP Fast-Transients (CRAFT) Survey. <i>Publications of the Astronomical Society of Australia</i> , 2010, 27, 272-282.	3.4	93
34	Progressive refinement for support vector machines. <i>Data Mining and Knowledge Discovery</i> , 2010, 20, 53-69.	3.7	5
35	Characterization of a sulfur-rich Arctic spring site and field analog to Europa using hyperspectral data. <i>Remote Sensing of Environment</i> , 2010, 114, 1297-1311.	11.0	38
36	Confidence-Based Feature Acquisition to Minimize Training and Test Costs. , 2010, , .		6

#	ARTICLE	IF	CITATIONS
37	Modelling and learning user preferences over sets. Journal of Experimental and Theoretical Artificial Intelligence, 2010, 22, 237-268.	2.8	7
38	An Evaluation of Information-Theoretic Methods for Detecting Structural Microbial Biosignatures. Astrobiology, 2010, 10, 363-379.	3.0	16
39	Simulating and Detecting Radiation-Induced Errors for Onboard Machine Learning. , 2009, , .		5
40	Improving onboard analysis of Hyperion images by filtering mislabeled training data examples. , 2009, , .		9
41	Onboard SVM analysis of Hyperion data to detect sulfur deposits in Arctic regions. , 2009, , .		4
42	K-means in space. , 2009, , .		6
43	Onboard detection of natural sulfur on a glacier via a SVM and Hyperion data. , 2009, , .		7
44	Observations of the north polar water ice annulus on Mars using THEMIS and TES. Planetary and Space Science, 2008, 56, 256-265.	1.7	38
45	Multiple-Instance Regression with Structured Data. , 2008, , .		19
46	On-board analysis of uncalibrated data for a spacecraft at mars. , 2007, , .		13
47	Learning user preferences for sets of objects. , 2006, , .		17
48	Measuring Constraint-Set Utility for Partitional Clustering Algorithms. Lecture Notes in Computer Science, 2006, , 115-126.	1.3	105
49	Value, Cost, and Sharing: Open Issues in Constrained Clustering. , 2006, , 1-10.		25
50	Active Learning with Irrelevant Examples. Lecture Notes in Computer Science, 2006, , 695-702.	1.3	5
51	Forecasting space weather: Predicting interplanetary shocks using neural networks. Advances in Space Research, 2005, 36, 2323-2327.	2.6	45
52	Mining GPS Traces for Map Refinement. Data Mining and Knowledge Discovery, 2004, 9, 59-87.	3.7	173