

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	Mining GPS Traces for Map Refinement. <i>Data Mining and Knowledge Discovery</i> , 2004, 9, 59-87.	3.7	173
2	Measuring Constraint-Set Utility for Partitional Clustering Algorithms. <i>Lecture Notes in Computer Science</i> , 2006, , 115-126.	1.3	105
3	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
4	Machine learning for science and society. <i>Machine Learning</i> , 2014, 95, 1-9.	5.4	75
5	V-FASTR: THE VLBA FAST RADIO TRANSIENTS EXPERIMENT. <i>Astrophysical Journal</i> , 2011, 735, 97.	4.5	47
6	Forecasting space weather: Predicting interplanetary shocks using neural networks. <i>Advances in Space Research</i> , 2005, 36, 2323-2327.	2.6	45
7	Observations of the north polar water ice annulus on Mars using THEMIS and TES. <i>Planetary and Space Science</i> , 2008, 56, 256-265.	1.7	38
8	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
9	Robotic space exploration agents. <i>Science Robotics</i> , 2017, 2, .	17.6	38
10	A Machine Learning Classifier for Fast Radio Burst Detection at the VLBA. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 084503.	3.1	37
11	Toward Generalized Change Detection on Planetary Surfaces With Convolutional Autoencoders and Transfer Learning. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 3900-3918.	4.9	31
12	Onboard Autonomy on the Intelligent Payload Experiment CubeSat Mission. <i>Journal of Aerospace Information Systems</i> , 2017, 14, 307-315.	1.4	29
13	Novelty Detection for Multispectral Images with Application to Planetary Exploration. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019, 33, 9484-9491.	4.9	25
14	Value, Cost, and Sharing: Open Issues in Constrained Clustering. , 2006, , 1-10.		25
15	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
16	LIMITS ON FAST RADIO BURSTS FROM FOUR YEARS OF THE V-FASTR EXPERIMENT. <i>Astrophysical Journal</i> , 2016, 826, 223.	4.5	20
17	Multiple-Instance Regression with Structured Data. , 2008, , .		19
18	Machine learning in space: extending our reach. <i>Machine Learning</i> , 2011, 84, 335-340.	5.4	19

#	ARTICLE	IF	CITATIONS
19	Learning user preferences for sets of objects. , 2006, , .		17
20	Smart, texture-sensitive instrument classification for in situ rock and layer analysis. Geophysical Research Letters, 2013, 40, 4188-4193.	4.0	17
21	An Evaluation of Information-Theoretic Methods for Detecting Structural Microbial Biosignatures. Astrobiology, 2010, 10, 363-379.	3.0	16
22	LIMITS ON THE EVENT RATES OF FAST RADIO TRANSIENTS FROM THE V-FASTR EXPERIMENT. Astrophysical Journal Letters, 2012, 753, L36.	8.3	15
23	On-board analysis of uncalibrated data for a spacecraft at mars. , 2007, , .		13
24	Dynamic Landmarking for Surface Feature Identification and Change Detection. ACM Transactions on Intelligent Systems and Technology, 2012, 3, 1-22.	4.5	13
25	A FRAMEWORK FOR INTERPRETING FAST RADIO TRANSIENTS SEARCH EXPERIMENTS: APPLICATION TO THE V-FASTR EXPERIMENT. Astrophysical Journal, 2013, 767, 4.	4.5	12
26	Field Demonstration of an Instrument Performing Automatic Classification of Geologic Surfaces. Astrobiology, 2014, 14, 486-501.	3.0	11
27	Enabling Onboard Detection of Events of Scientific Interest for the Europa Clipper Spacecraft. , 2019, , .		11
28	Improving onboard analysis of Hyperion images by filtering mislabeled training data examples. , 2009, , .		9
29	AUTONOMOUS REAL-TIME DETECTION OF PLUMES AND JETS FROM MOONS AND COMETS. Astrophysical Journal, 2014, 794, 43.	4.5	9
30	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
31	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
32	Onboard detection of natural sulfur on a glacier via a SVM and Hyperion data. , 2009, , .		7
33	Modelling and learning user preferences over sets. Journal of Experimental and Theoretical Artificial Intelligence, 2010, 22, 237-268.	2.8	7
34	K-means in space. , 2009, , .		6
35	Confidence-Based Feature Acquisition to Minimize Training and Test Costs. , 2010, , .		6
36	Surface Sulfur Detection via Remote Sensing and Onboard Classification. ACM Transactions on Intelligent Systems and Technology, 2012, 3, 1-20.	4.5	6

#	ARTICLE	IF	CITATIONS
37	Onboard machine learning classification of images by a cubesat in Earth orbit. <i>AI Matters</i> , 2015, 1, 38-40.	0.4	6
38	Simulating and Detecting Radiation-Induced Errors for Onboard Machine Learning. , 2009, , .		5
39	Progressive refinement for support vector machines. <i>Data Mining and Knowledge Discovery</i> , 2010, 20, 53-69.	3.7	5
40	Active Learning with Irrelevant Examples. <i>Lecture Notes in Computer Science</i> , 2006, , 695-702.	1.3	5
41	Onboard SVM analysis of Hyperion data to detect sulfur deposits in Arctic regions. , 2009, , .		4
42	Classification of ASKAP VAST Radio Light Curves. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 397-399.	0.0	4
43	Real-Time Adaptive Event Detection in Astronomical Data Streams. <i>IEEE Intelligent Systems</i> , 2014, 29, 48-55.	4.0	3
44	Agile Science for Primitive Bodies and Deep Space Exploration. , 2014, , .		3
45	Unsupervised detection of Saturn magnetic field boundary crossings from plasma spectrometer data. <i>Computers and Geosciences</i> , 2022, 161, 105040.	4.2	3
46	Using machine learning to reduce observational biases when detecting new impacts on Mars. <i>Icarus</i> , 2022, 386, 115146.	2.5	3
47	Visualizing image content to explain novel image discovery. <i>Data Mining and Knowledge Discovery</i> , 2020, 34, 1777-1804.	3.7	2
48	Semi-supervised Eigenbasis novelty detection. <i>Statistical Analysis and Data Mining</i> , 2013, 6, 195-204.	2.8	1
49	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
50	Welcome to <i>AI Matters</i> Issue 2. <i>AI Matters</i> , 2014, 1, 3-3.	0.4	0
51	Welcome to <i>AI Matters</i> issue 4. <i>AI Matters</i> , 2015, 1, 3-3.	0.4	0
52	Welcome to <i>AI Matter</i> . <i>AI Matters</i> , 2015, 2, 3-3.	0.4	0