

Jesse Davis

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

4,513
citations

687363

13
h-index

580821

25
g-index

78
all docs

78
docs citations

78
times ranked

5168
citing authors

#	ARTICLE	IF	CITATIONS
1	The relationship between Precision-Recall and ROC curves. , 2006, , .		3,279
2	Learning from positive and unlabeled data: a survey. Machine Learning, 2020, 109, 719-760.	5.4	238
3	Deep transfer via second-order Markov logic. , 2009, , .		145
4	Actions Speak Louder than Goals. , 2019, , .		85
5	Probabilistic Computer Model Developed from Clinical Data in National Mammography Database Format to Classify Mammographic Findings. Radiology, 2009, 251, 663-672.	7.3	82
6	Automatic Discovery of Tactics in Spatio-Temporal Soccer Match Data. , 2018, , .		48
7	Semi-Supervised Anomaly Detection with an Application to Water Analytics. , 2018, , .		39
8	A general anomaly detection framework for fleet-based condition monitoring of machines. Mechanical Systems and Signal Processing, 2020, 139, 106585.	8.0	34
9	Learning Markov Network Structure with Decision Trees. , 2010, , .		30
10	<i>Beegle</i> : from literature mining to disease-gene discovery. Nucleic Acids Research, 2016, 44, e18-e18.	14.5	30
11	A Machine Learning Approach to Estimate Hip and Knee Joint Loading Using a Mobile Phone-Embedded IMU. Frontiers in Bioengineering and Biotechnology, 2020, 8, 320.	4.1	29
12	Fatigue Prediction in Outdoor Runners Via Machine Learning and Sensor Fusion. , 2018, , .		27
13	An Integrated Approach to Learning Bayesian Networks of Rules. Lecture Notes in Computer Science, 2005, , 84-95.	1.3	27
14	The Open International Soccer Database for machine learning. Machine Learning, 2019, 108, 9-28.	5.4	26
15	Data fusion of body-worn accelerometers and heart rate to predict VO2max during submaximal running. PLoS ONE, 2018, 13, e0199509.	2.5	21
16	Tibial Acceleration-Based Prediction of Maximal Vertical Loading Rate During Overground Running: A Machine Learning Approach. Frontiers in Bioengineering and Biotechnology, 2020, 8, 33.	4.1	20
17	Fast Distance-Based Anomaly Detection in Images Using an Inception-Like Autoencoder. Lecture Notes in Computer Science, 2019, , 493-508.	1.3	20
18	Estimating Rule Quality for Knowledge Base Completion with the Relationship between Coverage Assumption. , 2018, , .		18

#	ARTICLE	IF	CITATIONS
19	Beyond the Selected Completely at Random Assumption for Learning from Positive and Unlabeled Data. Lecture Notes in Computer Science, 2020, , 71-85.	1.3	17
20	Lifted generative learning of Markov logic networks. Machine Learning, 2016, 103, 27-55.	5.4	16
21	Automatically Discovering Offensive Patterns in Soccer Match Data. Lecture Notes in Computer Science, 2015, , 286-297.	1.3	16
22	Guest editorial: special issue on machine learning for soccer. Machine Learning, 2019, 108, 1-7.	5.4	15
23	Learning relational dependency networks in hybrid domains. Machine Learning, 2015, 100, 217-254.	5.4	14
24	VAEP: An Objective Approach to Valuing On-the-Ball Actions in Soccer (Extended Abstract). , 2020, , .		14
25	Analyzing Volleyball Match Data from the 2014 World Championships Using Machine Learning Techniques. , 2016, , .		13
26	Player Vectors: Characterizing Soccer Playersâ€™ Playing Style from Match Event Streams. Lecture Notes in Computer Science, 2020, , 569-584.	1.3	13
27	Solving Probability Problems in Natural Language. , 2017, , .		12
28	An integrated approach to feature invention and model construction for drug activity prediction. , 2007, , .		11
29	How Data Availability Affects the Ability to Learn Good xG Models. Communications in Computer and Information Science, 2020, , 17-27.	0.5	11
30	Accelerometer Based Data Can Provide a Better Estimate of Cumulative Load During Running Compared to GPS Based Parameters. Frontiers in Sports and Active Living, 2020, 2, 575596.	1.8	10
31	Predicting gait events from tibial acceleration in rearfoot running: A structured machine learning approach. Gait and Posture, 2021, 84, 87-92.	1.4	10
32	Transfer Learning for Anomaly Detection through Localized and Unsupervised Instance Selection. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 6054-6061.	4.9	9
33	Towards the Monitoring of Functional Status in a Free-Living Environment for People with Hip or Knee Osteoarthritis: Design and Evaluation of the JOLO Blended Care App. Sensors, 2020, 20, 6967.	3.8	9
34	AMIE: Automatic Monitoring of Indoor Exercises. Lecture Notes in Computer Science, 2019, , 424-439.	1.3	9
35	Deep Transfer: A Markov Logic Approach. AI Magazine, 2011, 32, 51-53.	1.6	7
36	Quantifying the Confidence of Anomaly Detectors in Their Example-Wise Predictions. Lecture Notes in Computer Science, 2021, , 227-243.	1.3	6

#	ARTICLE	IF	CITATIONS
37	Class Prior Estimation in Active Positive and Unlabeled Learning. , 2020, , .		6
38	Problems with the nested granularity of feature domains in bioinformatics: the eXtasy case. BMC Bioinformatics, 2015, 16, S2.	2.6	5
39	SoccerMix: Representing Soccer Actions with Mixture Models. Lecture Notes in Computer Science, 2021, , 459-474.	1.3	5
40	A Bayesian Approach to In-Game Win Probability in Soccer. , 2021, , .		5
41	Query Log Analysis: Detecting Anomalies in DNS Traffic at a TLD Resolver. Communications in Computer and Information Science, 2019, , 55-67.	0.5	5
42	Fast Gradient Boosting Decision Trees with Bit-Level Data Structures. Lecture Notes in Computer Science, 2020, , 590-606.	1.3	5
43	Evaluation of Automated Hypnogram Analysis on Multi-Scored Polysomnographies. Frontiers in Digital Health, 2021, 3, 707589.	2.8	4
44	Mining Hierarchical Pathology Data Using Inductive Logic Programming. Lecture Notes in Computer Science, 2015, , 76-85.	1.3	4
45	MCMC Estimation of Conditional Probabilities in Probabilistic Programming Languages. Lecture Notes in Computer Science, 2013, , 436-448.	1.3	4
46	Generalized Counting for Lifted Variable Elimination. Lecture Notes in Computer Science, 2014, , 107-122.	1.3	4
47	“Now you see it, now you don't!” Detecting Suspicious Pattern Absences in Continuous Time Series. , 2020, , 127-135.		4
48	Joint kinematics alone can distinguish hip or knee osteoarthritis patients from asymptomatic controls with high accuracy. Journal of Orthopaedic Research, 2022, 40, 2229-2239.	2.3	4
49	Can the Output of a Learned Classification Model Monitor a Person’s Functional Recovery Status Post-Total Knee Arthroplasty?. Sensors, 2022, 22, 3698.	3.8	4
50	TSFuse: automated feature construction for multiple time series data. Machine Learning, 0, , .	5.4	4
51	Topic modeling of biomedical text. , 2016, , .		3
52	Graph sampling with applications to estimating the number of pattern embeddings and the parameters of a statistical relational model. Data Mining and Knowledge Discovery, 2018, 32, 913-948.	3.7	3
53	Motion Sensor-Based Detection of Outlier Days Supporting Continuous Health Assessment for Single Older Adults. Sensors, 2021, 21, 6080.	3.8	3
54	Positive and Unlabeled Relational Classification Through Label Frequency Estimation. Lecture Notes in Computer Science, 2018, , 16-30.	1.3	3

#	ARTICLE	IF	CITATIONS
55	Induction of Interpretable Possibilistic Logic Theories from Relational Data. , 2017, , .		3
56	Repairing Inconsistent Taxonomies Using MAP Inference and Rules of Thumb. , 2014, , .		2
57	A Comprehensive Comparison of Two MEDLINE Annotators for Disease and Gene Linkage: Sometimes Less is More. Lecture Notes in Computer Science, 2016, , 765-778.	1.3	2
58	Forecasting the FIFA World Cup “ Combining Result- and Goal-Based Team Ability Parameters. Lecture Notes in Computer Science, 2019, , 16-30.	1.3	2
59	A Fleet-Wide Approach for Condition Monitoring of Similar Machines Using Time-Series Clustering. Applied Condition Monitoring, 2019, , 101-110.	0.4	2
60	Verifying Tree Ensembles by Reasoning about Potential Instances. , 2021, , 450-458.		2
61	Constructing Markov Logic Networks from First-Order Default Rules. Lecture Notes in Computer Science, 2016, , 91-105.	1.3	2
62	Assessing the Performances of Soccer Players. Advances in Intelligent Systems and Computing, 2020, , 3-10.	0.6	2
63	Pairwise Markov Logic. Lecture Notes in Computer Science, 2013, , 58-73.	1.3	1
64	Relational Symbol Grounding through Affordance Learning: An Overview of the ReGround Project. , 0, , .		1
65	LazyBum: Decision Tree Learning Using Lazy Propositionalization. Lecture Notes in Computer Science, 2020, , 98-113.	1.3	1
66	Multi-directional Rule Set Learning. Lecture Notes in Computer Science, 2020, , 517-532.	1.3	1
67	Similarity-based anomaly score for fleet-based condition monitoring. Proceedings of the Annual Conference of the Prognostics and Health Management Society Prognostics and Health Management Society Conference, 2020, 12, 9.	0.3	1
68	Impact of Gender and Feature Set on Machine-Learning-Based Prediction of Lower-Limb Overuse Injuries Using a Single Trunk-Mounted Accelerometer. Sensors, 2022, 22, 2860.	3.8	1
69	A Note on the Evaluation of Mutation Prioritization Algorithms. , 2015, , .		0
70	Guest editors introduction: special issue on inductive logic programming. Machine Learning, 2016, 103, 307-308.	5.4	0
71	Introduction to the special issue for the ECML PKDD 2018 journal track. Data Mining and Knowledge Discovery, 2018, 32, 1177-1178.	3.7	0
72	Guest editors introduction to the special issue for the ECML PKDD 2018 journal track. Machine Learning, 2018, 107, 1207-1208.	5.4	0

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73	Predicting Adverse Drug Events from Electronic Medical Records. Lecture Notes in Computer Science, 2015, , 243-257.	1.3	0
74	Analyzing Soccer Players's Skill Ratings Over Time Using Tensor-Based Methods. Communications in Computer and Information Science, 2020, , 225-234.	0.5	0
75	Know Your Limits: Machine Learning with Rejection for Vehicle Engineering. Lecture Notes in Computer Science, 2022, , 273-288.	1.3	0