

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 | Joint kinematics alone can distinguish hip or knee osteoarthritis patients from asymptomatic controls with high accuracy. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2229-2239. | 2.3 | 4 |
| 2 | Know Your Limits: Machine Learning with Rejection for Vehicle Engineering. <i>Lecture Notes in Computer Science</i> , 2022, , 273-288. | 1.3 | 0 |
| 3 | Impact of Gender and Feature Set on Machine-Learning-Based Prediction of Lower-Limb Overuse Injuries Using a Single Trunk-Mounted Accelerometer. <i>Sensors</i> , 2022, 22, 2860. | 3.8 | 1 |
| 4 | Can the Output of a Learned Classification Model Monitor a Person's Functional Recovery Status Post-Total Knee Arthroplasty?. <i>Sensors</i> , 2022, 22, 3698. | 3.8 | 4 |
| 5 | Predicting gait events from tibial acceleration in rearfoot running: A structured machine learning approach. <i>Gait and Posture</i> , 2021, 84, 87-92. | 1.4 | 10 |
| 6 | SoccerMix: Representing Soccer Actions with Mixture Models. <i>Lecture Notes in Computer Science</i> , 2021, , 459-474. | 1.3 | 5 |
| 7 | Verifying Tree Ensembles by Reasoning about Potential Instances. , 2021, , 450-458. | | 2 |
| 8 | Quantifying the Confidence of Anomaly Detectors in Their Example-Wise Predictions. <i>Lecture Notes in Computer Science</i> , 2021, , 227-243. | 1.3 | 6 |
| 9 | Evaluation of Automated Hypnogram Analysis on Multi-Scored Polysomnographies. <i>Frontiers in Digital Health</i> , 2021, 3, 707589. | 2.8 | 4 |
| 10 | A Bayesian Approach to In-Game Win Probability in Soccer. , 2021, , . | | 5 |
| 11 | Motion Sensor-Based Detection of Outlier Days Supporting Continuous Health Assessment for Single Older Adults. <i>Sensors</i> , 2021, 21, 6080. | 3.8 | 3 |
| 12 | Transfer Learning for Anomaly Detection through Localized and Unsupervised Instance Selection. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2020, 34, 6054-6061. | 4.9 | 9 |
| 13 | 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. <i>Sensors</i> , 2020, 20, 6967. | 3.8 | 9 |
| 14 | Accelerometer Based Data Can Provide a Better Estimate of Cumulative Load During Running Compared to GPS Based Parameters. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 575596. | 1.8 | 10 |
| 15 | A Machine Learning Approach to Estimate Hip and Knee Joint Loading Using a Mobile Phone-Embedded IMU. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 320. | 4.1 | 29 |
| 16 | Learning from positive and unlabeled data: a survey. <i>Machine Learning</i> , 2020, 109, 719-760. | 5.4 | 238 |
| 17 | Tibial Acceleration-Based Prediction of Maximal Vertical Loading Rate During Overground Running: A Machine Learning Approach. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 33. | 4.1 | 20 |
| 18 | A general anomaly detection framework for fleet-based condition monitoring of machines. <i>Mechanical Systems and Signal Processing</i> , 2020, 139, 106585. | 8.0 | 34 |

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|----|---|-----|-----------|
| 19 | Player Vectors: Characterizing Soccer Players'™ Playing Style from Match Event Streams. Lecture Notes in Computer Science, 2020, , 569-584. | 1.3 | 13 |
| 20 | 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 |
| 21 | “Now you see it, now you don't!” Detecting Suspicious Pattern Absences in Continuous Time Series. , 2020, , 127-135. | | 4 |
| 22 | Class Prior Estimation in Active Positive and Unlabeled Learning. , 2020, , . | | 6 |
| 23 | VAEP: An Objective Approach to Valuing On-the-Ball Actions in Soccer (Extended Abstract). , 2020, , . | | 14 |
| 24 | Assessing the Performances of Soccer Players. Advances in Intelligent Systems and Computing, 2020, , 3-10. | 0.6 | 2 |
| 25 | LazyBum: Decision Tree Learning Using Lazy Propositionalization. Lecture Notes in Computer Science, 2020, , 98-113. | 1.3 | 1 |
| 26 | Fast Gradient Boosting Decision Trees with Bit-Level Data Structures. Lecture Notes in Computer Science, 2020, , 590-606. | 1.3 | 5 |
| 27 | How Data Availability Affects the Ability to Learn Good xG Models. Communications in Computer and Information Science, 2020, , 17-27. | 0.5 | 11 |
| 28 | Multi-directional Rule Set Learning. Lecture Notes in Computer Science, 2020, , 517-532. | 1.3 | 1 |
| 29 | Analyzing Soccer Players'™ Skill Ratings Over Time Using Tensor-Based Methods. Communications in Computer and Information Science, 2020, , 225-234. | 0.5 | 0 |
| 30 | 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 |
| 31 | The Open International Soccer Database for machine learning. Machine Learning, 2019, 108, 9-28. | 5.4 | 26 |
| 32 | Actions Speak Louder than Goals. , 2019, , . | | 85 |
| 33 | Forecasting the FIFA World Cup “ Combining Result- and Goal-Based Team Ability Parameters. Lecture Notes in Computer Science, 2019, , 16-30. | 1.3 | 2 |
| 34 | A Fleet-Wide Approach for Condition Monitoring of Similar Machines Using Time-Series Clustering. Applied Condition Monitoring, 2019, , 101-110. | 0.4 | 2 |
| 35 | Guest editorial: special issue on machine learning for soccer. Machine Learning, 2019, 108, 1-7. | 5.4 | 15 |
| 36 | Query Log Analysis: Detecting Anomalies in DNS Traffic at a TLD Resolver. Communications in Computer and Information Science, 2019, , 55-67. | 0.5 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Fast Distance-Based Anomaly Detection in Images Using an Inception-Like Autoencoder. Lecture Notes in Computer Science, 2019, , 493-508. | 1.3 | 20 |
| 38 | AMIE: Automatic Monitoring of Indoor Exercises. Lecture Notes in Computer Science, 2019, , 424-439. | 1.3 | 9 |
| 39 | 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 |
| 40 | Semi-Supervised Anomaly Detection with an Application to Water Analytics. , 2018, , . | | 39 |
| 41 | Data fusion of body-worn accelerometers and heart rate to predict VO2max during submaximal running. PLoS ONE, 2018, 13, e0199509. | 2.5 | 21 |
| 42 | Estimating Rule Quality for Knowledge Base Completion with the Relationship between Coverage Assumption. , 2018, , . | | 18 |
| 43 | Fatigue Prediction in Outdoor Runners Via Machine Learning and Sensor Fusion. , 2018, , . | | 27 |
| 44 | Automatic Discovery of Tactics in Spatio-Temporal Soccer Match Data. , 2018, , . | | 48 |
| 45 | Introduction to the special issue for the ECML PKDD 2018 journal track. Data Mining and Knowledge Discovery, 2018, 32, 1177-1178. | 3.7 | 0 |
| 46 | Guest editors introduction to the special issue for the ECML PKDD 2018 journal track. Machine Learning, 2018, 107, 1207-1208. | 5.4 | 0 |
| 47 | Positive and Unlabeled Relational Classification Through Label Frequency Estimation. Lecture Notes in Computer Science, 2018, , 16-30. | 1.3 | 3 |
| 48 | Induction of Interpretable Possibilistic Logic Theories from Relational Data. , 2017, , . | | 3 |
| 49 | Solving Probability Problems in Natural Language. , 2017, , . | | 12 |
| 50 | Analyzing Volleyball Match Data from the 2014 World Championships Using Machine Learning Techniques. , 2016, , . | | 13 |
| 51 | Topic modeling of biomedical text. , 2016, , . | | 3 |
| 52 | 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 |
| 53 | Guest editors introduction: special issue on inductive logic programming. Machine Learning, 2016, 103, 307-308. | 5.4 | 0 |
| 54 | Lifted generative learning of Markov logic networks. Machine Learning, 2016, 103, 27-55. | 5.4 | 16 |

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|----|---|------|-----------|
| 55 | <i>Beagle</i> : from literature mining to disease-gene discovery. <i>Nucleic Acids Research</i> , 2016, 44, e18-e18. | 14.5 | 30 |
| 56 | Constructing Markov Logic Networks from First-Order Default Rules. <i>Lecture Notes in Computer Science</i> , 2016, , 91-105. | 1.3 | 2 |
| 57 | Problems with the nested granularity of feature domains in bioinformatics: the eXtasy case. <i>BMC Bioinformatics</i> , 2015, 16, S2. | 2.6 | 5 |
| 58 | Learning relational dependency networks in hybrid domains. <i>Machine Learning</i> , 2015, 100, 217-254. | 5.4 | 14 |
| 59 | A Note on the Evaluation of Mutation Prioritization Algorithms. , 2015, , . | | 0 |
| 60 | Mining Hierarchical Pathology Data Using Inductive Logic Programming. <i>Lecture Notes in Computer Science</i> , 2015, , 76-85. | 1.3 | 4 |
| 61 | Automatically Discovering Offensive Patterns in Soccer Match Data. <i>Lecture Notes in Computer Science</i> , 2015, , 286-297. | 1.3 | 16 |
| 62 | Predicting Adverse Drug Events from Electronic Medical Records. <i>Lecture Notes in Computer Science</i> , 2015, , 243-257. | 1.3 | 0 |
| 63 | Repairing Inconsistent Taxonomies Using MAP Inference and Rules of Thumb. , 2014, , . | | 2 |
| 64 | Generalized Counting for Lifted Variable Elimination. <i>Lecture Notes in Computer Science</i> , 2014, , 107-122. | 1.3 | 4 |
| 65 | MCMC Estimation of Conditional Probabilities in Probabilistic Programming Languages. <i>Lecture Notes in Computer Science</i> , 2013, , 436-448. | 1.3 | 4 |
| 66 | Pairwise Markov Logic. <i>Lecture Notes in Computer Science</i> , 2013, , 58-73. | 1.3 | 1 |
| 67 | Deep Transfer: A Markov Logic Approach. <i>AI Magazine</i> , 2011, 32, 51-53. | 1.6 | 7 |
| 68 | Learning Markov Network Structure with Decision Trees. , 2010, , . | | 30 |
| 69 | Probabilistic Computer Model Developed from Clinical Data in National Mammography Database Format to Classify Mammographic Findings. <i>Radiology</i> , 2009, 251, 663-672. | 7.3 | 82 |
| 70 | Deep transfer via second-order Markov logic. , 2009, , . | | 145 |
| 71 | An integrated approach to feature invention and model construction for drug activity prediction. , 2007, , . | | 11 |
| 72 | The relationship between Precision-Recall and ROC curves. , 2006, , . | | 3,279 |

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|----|--|-----|-----------|
| 73 | An Integrated Approach to Learning Bayesian Networks of Rules. Lecture Notes in Computer Science, 2005, , 84-95. | 1.3 | 27 |
| 74 | Relational Symbol Grounding through Affordance Learning: An Overview of the ReGround Project. , 0, , . | | 1 |
| 75 | TSFuse: automated feature construction for multiple time series data. Machine Learning, 0, , . | 5.4 | 4 |