

Michelangelo Ceci

List of Publications by Year in descending order

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Version: 2024-02-01

138
papers

1,999
citations

186265

28
h-index

302126

39
g-index

146
all docs

146
docs citations

146
times ranked

1559
citing authors

#	ARTICLE	IF	CITATIONS
1	Top-down induction of model trees with regression and splitting nodes. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 612-625.	13.9	86
2	Classifying web documents in a hierarchy of categories: a comprehensive study. Journal of Intelligent Information Systems, 2007, 28, 37-78.	3.9	86
3	Discovery of spatial association rules in geo-referenced census data: A relational mining approach. Intelligent Data Analysis, 2003, 7, 541-566.	0.9	66
4	CloFAST: closed sequential pattern mining using sparse and vertical id-lists. Knowledge and Information Systems, 2016, 48, 429-463.	3.2	66
5	Predictive Modeling of PV Energy Production: How to Set Up the Learning Task for a Better Prediction?. IEEE Transactions on Industrial Informatics, 2017, 13, 956-966.	11.3	66
6	Completion Time and Next Activity Prediction of Processes Using Sequential Pattern Mining. Lecture Notes in Computer Science, 2014, , 49-61.	1.3	51
7	Multi-aspect renewable energy forecasting. Information Sciences, 2021, 546, 701-722.	6.9	49
8	Integrating microRNA target predictions for the discovery of gene regulatory networks: a semi-supervised ensemble learning approach. BMC Bioinformatics, 2014, 15, S4.	2.6	45
9	Exploiting transfer learning for the reconstruction of the human gene regulatory network. Bioinformatics, 2020, 36, 1553-1561.	4.1	44
10	Anomaly Detection and Repair for Accurate Predictions in Geo-distributed Big Data. Big Data Research, 2019, 16, 18-35.	4.2	44
11	Network regression with predictive clustering trees. Data Mining and Knowledge Discovery, 2012, 25, 378-413.	3.7	43
12	ComiRNet: a web-based system for the analysis of miRNA-gene regulatory networks. BMC Bioinformatics, 2015, 16, S7.	2.6	43
13	Using PPI network autocorrelation in hierarchical multi-label classification trees for gene function prediction. BMC Bioinformatics, 2013, 14, 285.	2.6	41
14	Self-training for multi-target regression with tree ensembles. Knowledge-Based Systems, 2017, 123, 41-60.	7.1	41
15	Spatial autocorrelation and entropy for renewable energy forecasting. Data Mining and Knowledge Discovery, 2019, 33, 698-729.	3.7	41
16	DENCAST: distributed density-based clustering for multi-target regression. Journal of Big Data, 2019, 6, .	11.0	40
17	A Novel Biclustering Algorithm for the Discovery of Meaningful Biological Correlations between microRNAs and their Target Genes. BMC Bioinformatics, 2013, 14, S8.	2.6	38
18	Spatial associative classification: propositional vs structural approach. Journal of Intelligent Information Systems, 2006, 27, 191-213.	3.9	37

#	ARTICLE	IF	CITATIONS
19	Effectively and efficiently supporting roll-up and drill-down OLAP operations over continuous dimensions via hierarchical clustering. <i>Journal of Intelligent Information Systems</i> , 2015, 44, 309-333.	3.9	37
20	Multi-type clustering and classification from heterogeneous networks. <i>Information Sciences</i> , 2018, 425, 107-126.	6.9	37
21	Scalable auto-encoders for gravitational waves detection from time series data. <i>Expert Systems With Applications</i> , 2020, 151, 113378.	7.6	37
22	Semi-supervised classification trees. <i>Journal of Intelligent Information Systems</i> , 2017, 49, 461-486.	3.9	36
23	ECHAD: Embedding-Based Change Detection From Multivariate Time Series in Smart Grids. <i>IEEE Access</i> , 2020, 8, 156053-156066.	4.2	36
24	Dealing with spatial autocorrelation when learning predictive clustering trees. <i>Ecological Informatics</i> , 2013, 13, 22-39.	5.2	34
25	Semi-Supervised Multi-View Learning for Gene Network Reconstruction. <i>PLoS ONE</i> , 2015, 10, e0144031.	2.5	32
26	Semi-supervised trees for multi-target regression. <i>Information Sciences</i> , 2018, 450, 109-127.	6.9	31
27	A parallel, distributed algorithm for relational frequent pattern discovery from very large data sets. <i>Intelligent Data Analysis</i> , 2011, 15, 69-88.	0.9	29
28	Spark-GHSOM: Growing Hierarchical Self-Organizing Map for large scale mixed attribute datasets. <i>Information Sciences</i> , 2019, 496, 572-591.	6.9	29
29	Mr-SBC: A Multi-relational Naïve Bayes Classifier. <i>Lecture Notes in Computer Science</i> , 2003, , 95-106.	1.3	29
30	Redundant feature elimination for multi-class problems. , 2004, , .		28
31	Ensemble Learning for Multi-Type Classification in Heterogeneous Networks. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2018, 30, 2326-2339.	5.7	26
32	Integrating genome-scale metabolic modelling and transfer learning for human gene regulatory network reconstruction. <i>Bioinformatics</i> , 2022, 38, 487-493.	4.1	26
33	Exploiting causality in gene network reconstruction based on graph embedding. <i>Machine Learning</i> , 2020, 109, 1231-1279.	5.4	25
34	Prediction of new associations between ncRNAs and diseases exploiting multi-type hierarchical clustering. <i>BMC Bioinformatics</i> , 2020, 21, 70.	2.6	25
35	Document-Centered Collaboration for Scholars in the Humanities “The COLLATE System. <i>Lecture Notes in Computer Science</i> , 2003, , 434-445.	1.3	23
36	Multi-task learning for the simultaneous reconstruction of the human and mouse gene regulatory networks. <i>Scientific Reports</i> , 2020, 10, 22295.	3.3	22

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37	Hierarchical Classification of HTML Documents with WebClassII. Lecture Notes in Computer Science, 2003, , 57-72.	1.3	22
38	RELATIONAL DATA MINING AND ILP FOR DOCUMENT IMAGE UNDERSTANDING. Applied Artificial Intelligence, 2007, 21, 317-342.	3.2	19
39	A relational approach to probabilistic classification in a transductive setting. Engineering Applications of Artificial Intelligence, 2009, 22, 109-116.	8.1	19
40	Big Data Research in Italy: A Perspective. Engineering, 2016, 2, 163-170.	6.7	18
41	Discovering Emerging Patterns in Spatial Databases: A Multi-relational Approach. Lecture Notes in Computer Science, 2007, , 390-397.	1.3	17
42	Relational mining for discovering changes in evolving networks. Neurocomputing, 2015, 150, 265-288.	5.9	16
43	Machine Learning for Reading Order Detection in Document Image Understanding. Studies in Computational Intelligence, 2008, , 45-69.	0.9	15
44	Mining Model Trees from Spatial Data. Lecture Notes in Computer Science, 2005, , 169-180.	1.3	14
45	Mining and Filtering Multi-level Spatial Association Rules with ARES. Lecture Notes in Computer Science, 2005, , 342-353.	1.3	13
46	Discovering Relational Emerging Patterns. Lecture Notes in Computer Science, 2007, , 206-217.	1.3	13
47	Global and Local Spatial Autocorrelation in Predictive Clustering Trees. Lecture Notes in Computer Science, 2011, , 307-322.	1.3	13
48	Semi-supervised regression trees with application to QSAR modelling. Expert Systems With Applications, 2020, 158, 113569.	7.6	13
49	Ensembles of extremely randomized predictive clustering trees for predicting structured outputs. Machine Learning, 2020, 109, 2213-2241.	5.4	12
50	Mining Model Trees: A Multi-relational Approach. Lecture Notes in Computer Science, 2003, , 4-21.	1.3	11
51	Big Data Techniques For Supporting Accurate Predictions of Energy Production From Renewable Sources. , 2014, , .		11
52	Discovering Evolution Chains in Dynamic Networks. Lecture Notes in Computer Science, 2013, , 185-199.	1.3	10
53	Ensembles of Extremely Randomized Trees for Multi-target Regression. Lecture Notes in Computer Science, 2015, , 86-100.	1.3	10
54	BROCCOLI: overlapping and outlier-robust biclustering through proximal stochastic gradient descent. Data Mining and Knowledge Discovery, 2021, 35, 2542-2576.	3.7	10

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55	PRILJ: an efficient two-step method based on embedding and clustering for the identification of regularities in legal case judgments. <i>Artificial Intelligence and Law</i> , 2022, 30, 359-390.	4.0	10
56	LP-ROBIN: Link prediction in dynamic networks exploiting incremental node embedding. <i>Information Sciences</i> , 2022, 606, 702-721.	6.9	10
57	Identifying lncRNA-Disease Relationships via Heterogeneous Clustering. <i>Lecture Notes in Computer Science</i> , 2018, , 35-48.	1.3	9
58	Mining microscopic and macroscopic changes in network data streams. <i>Knowledge-Based Systems</i> , 2018, 161, 294-312.	7.1	9
59	Emerging Pattern Based Classification in Relational Data Mining. <i>Lecture Notes in Computer Science</i> , 2008, , 283-296.	1.3	9
60	Novelty Detection from Evolving Complex Data Streams with Time Windows. <i>Lecture Notes in Computer Science</i> , 2009, , 563-572.	1.3	9
61	Network Regression with Predictive Clustering Trees. <i>Lecture Notes in Computer Science</i> , 2011, , 333-348.	1.3	9
62	Spatially-Aware Autoencoders for Detecting Contextual Anomalies in Geo-Distributed Data. <i>Lecture Notes in Computer Science</i> , 2021, , 461-471.	1.3	9
63	A Data Mining Approach to Reading Order Detection. <i>Proc Int Conf Doc Anal Recognit</i> , 2007, , .	0.0	8
64	Ranking Sentences for Keyphrase Extraction: A Relational Data Mining Approach. <i>Procedia Computer Science</i> , 2014, 38, 52-59.	2.0	8
65	Semi-supervised Learning for Multi-target Regression. <i>Lecture Notes in Computer Science</i> , 2015, , 3-18.	1.3	8
66	Spatial Associative Classification at Different Levels of Granularity: A Probabilistic Approach. <i>Lecture Notes in Computer Science</i> , 2004, , 99-111.	1.3	8
67	A Data Mining Query Language for Knowledge Discovery in a Geographical Information System. <i>Lecture Notes in Computer Science</i> , 2004, , 95-116.	1.3	7
68	Hierarchical Text Categorization in a Transductive Setting. , 2008, , .		7
69	Distributed Learning of Process Models for Next Activity Prediction. , 2018, , .		7
70	Condensed representations of changes in dynamic graphs through emerging subgraph mining. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 94, 103830.	8.1	7
71	Closed sequential pattern mining for sitemap generation. <i>World Wide Web</i> , 2021, 24, 175-203.	4.0	7
72	Innovative power operating center management exploiting big data techniques. , 2014, , .		6

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73	Discovering Emerging Patterns for Anomaly Detection in Network Connection Data. , 2008, , 179-188.		6
74	Efficient and Accurate Non-exhaustive Pattern-Based Change Detection in Dynamic Networks. Lecture Notes in Computer Science, 2019, , 396-411.	1.3	5
75	Automatic Extraction of Logical Web Lists. Lecture Notes in Computer Science, 2014, , 365-374.	1.3	5
76	Comparing Simplification Methods for Model Trees with Regression and Splitting Nodes. Lecture Notes in Computer Science, 2003, , 49-56.	1.3	5
77	An Iterative Learning Algorithm for Within-Network Regression in the Transductive Setting. Lecture Notes in Computer Science, 2009, , 36-50.	1.3	5
78	Discovering Temporal Bisociations for Linking Concepts over Time. Lecture Notes in Computer Science, 2011, , 358-373.	1.3	5
79	Transductive Relational Classification in the Co-training Paradigm. Lecture Notes in Computer Science, 2012, , 11-25.	1.3	5
80	Hierarchical Multidimensional Classification of Web Documents with MultiWebClass. Lecture Notes in Computer Science, 2015, , 236-250.	1.3	5
81	Simultaneous Process Drift Detection and Characterization with Pattern-Based Change Detectors. Lecture Notes in Computer Science, 2020, , 451-467.	1.3	5
82	Toward IoT-Friendly Learning Models. , 2018, , .		4
83	Learning and Transferring Geographically Weighted Regression Trees across Time. Lecture Notes in Computer Science, 2012, , 97-117.	1.3	4
84	Transductive Learning for Spatial Data Classification. Studies in Computational Intelligence, 2010, , 189-207.	0.9	4
85	Transductive learning for spatial regression with co-training. , 2010, , .		3
86	Big Data Analytics and Predictive Modeling Approaches for the Energy Sector. , 2019, , .		3
87	User-Emotion Detection Through Sentence-Based Classification Using Deep Learning: A Case-Study with Microblogs in Albanian. Lecture Notes in Computer Science, 2018, , 258-267.	1.3	3
88	A Temporal Data Mining Framework for Analyzing Longitudinal Data. Lecture Notes in Computer Science, 2011, , 97-106.	1.3	3
89	XML and Knowledge Technologies for Semantic-Based Indexing of Paper Documents. Lecture Notes in Computer Science, 2003, , 256-265.	1.3	2
90	Relational learning techniques for document image understanding: comparing statistical and logical approaches. , 2005, , .		2

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91	Using colour information to understand censorship cards of film archives. International Journal on Document Analysis and Recognition, 2007, 9, 281-297.	3.4	2
92	Complex objects ranking. , 2010, , .		2
93	Discovering Informative Syntactic Relationships between Named Entities in Biomedical Literature. , 2010, , .		2
94	Relational Data Mining in the Era of Big Data. Studies in Big Data, 2018, , 323-339.	1.1	2
95	Learning Hierarchical Multi-label Classification Trees from Network Data. Lecture Notes in Computer Science, 2013, , 233-248.	1.3	2
96	Estimating the Importance of Relational Features by Using Gradient Boosting. Lecture Notes in Computer Science, 2020, , 362-371.	1.3	2
97	A Grid-Based Multi-relational Approach to Process Mining. Lecture Notes in Computer Science, 2008, , 701-709.	1.3	2
98	Relational tree ensembles and feature rankings. Knowledge-Based Systems, 2022, 251, 109254.	7.1	2
99	A color-based layout analysis to process censorship cards of film archives. , 2005, , .		1
100	Multi-Relational Model Tree Induction Tightly-Coupled with a Relational Database. Fundamenta Informaticae, 2014, 129, 193-224.	0.4	1
101	Discovering Novelty Patterns from the Ancient Christian Inscriptions of Rome. Journal on Computing and Cultural Heritage, 2015, 7, 1-21.	2.1	1
102	Automatic Generation of Sitemaps Based on Navigation Systems. Lecture Notes in Computer Science, 2016, , 216-223.	1.3	1
103	Recent advances in mining patterns from complex data. Journal of Intelligent Information Systems, 2016, 47, 1-3.	3.9	1
104	Mining Spatio-Temporal Patterns of Periodic Changes in Climate Data. Lecture Notes in Computer Science, 2017, , 198-212.	1.3	1
105	LOCANDA: Exploiting Causality in the Reconstruction of Gene Regulatory Networks. Lecture Notes in Computer Science, 2017, , 283-297.	1.3	1
106	jKarma: A highly-modular framework for pattern-based change detection on evolving data. Knowledge-Based Systems, 2020, 192, 105303.	7.1	1
107	Mining emotion-aware sequential rules at user-level from micro-blogs. Journal of Intelligent Information Systems, 2021, 57, 369.	3.9	1
108	Mining Tolerance Regions with Model Trees. Lecture Notes in Computer Science, 2006, , 560-569.	1.3	1

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109	Stepwise Induction of Logistic Model Trees. , 2008, , 68-77.		1
110	Project D.A.M.A.: Document Acquisition, Management and Archiving. Communications in Computer and Information Science, 2011, , 115-118.	0.5	1
111	Network Reconstruction for the Identification of miRNA:mRNA Interaction Networks. Lecture Notes in Computer Science, 2014, , 508-511.	1.3	1
112	Relational Learning: Statistical Approach Versus Logical Approach in Document Image Understanding. Lecture Notes in Computer Science, 2005, , 418-429.	1.3	1
113	Relational Frequent Patterns Mining for Novelty Detection from Data Streams. Lecture Notes in Computer Science, 2009, , 427-439.	1.3	1
114	Transductive Learning of Logical Structures from Document Images. Studies in Computational Intelligence, 2011, , 121-142.	0.9	1
115	Mining Ranking Models from Dynamic Network Data. Lecture Notes in Computer Science, 2012, , 566-577.	1.3	1
116	The integration of microRNA target data by biclustering techniques opens new roads for signaling networks analysis. EMBnet Journal, 2012, 18, 142.	0.6	1
117	Mining Relational Association Rules for Propositional Classification. Lecture Notes in Computer Science, 2005, , 522-534.	1.3	0
118	Discovering process models through relational disjunctive patterns mining. , 2011, , .		0
119	Preface to the Workshop on Domain Driven Data Mining. , 2011, , .		0
120	Toward a Semantic Framework for the Querying, Mining and Visualization of Cancer Microenvironment Data. Lecture Notes in Computer Science, 2012, , 109-123.	1.3	0
121	Mining complex patterns. Journal of Intelligent Information Systems, 2014, 42, 179-180.	3.9	0
122	An Empirical Evaluation of Sequential Pattern Mining Algorithms. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 615-626.	0.7	0
123	Introduction to the special issue on discovery science. Machine Learning, 2018, 107, 1647-1649.	5.4	0
124	Big Data analytics for knowledge transfer among organisms while reconstructing Gene Regulatory Networks. EMBnet Journal, 2021, 26, e956.	0.6	0
125	LP-HCLUS: a novel tool for the prediction of relationships between ncRNAs and human diseases. EMBnet Journal, 2021, 26, e955.	0.6	0
126	Mining geospatial data in a transductive setting. WIT Transactions on Information and Communication Technologies, 2007, , .	0.0	0

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127	Discovering Spatio-Textual Association Rules in Document Images. , 2008, , 176-197.		0
128	A Knowledge-Based Framework for Information Extraction from Clinical Practice Guidelines. Lecture Notes in Computer Science, 2009, , 119-128.	1.3	0
129	A Relational Approach for Discovering Frequent Patterns with Disjunctions. Lecture Notes in Computer Science, 2010, , 263-274.	1.3	0
130	Relational Mining in Spatial Domains: Accomplishments and Challenges. Lecture Notes in Computer Science, 2011, , 16-24.	1.3	0
131	MBlab: Molecular Biodiversity Laboratory. Communications in Computer and Information Science, 2011, , 132-135.	0.5	0
132	Learning to Rank from Concept-Drifting Network Data Streams. Lecture Notes in Computer Science, 2012, , 384-396.	1.3	0
133	Dealing with Spatial Autocorrelation in Gene Flow Modeling. Developments in Environmental Modelling, 2012, , 35-49.	0.3	0
134	Document Image Understanding through Iterative Transductive Learning. Communications in Computer and Information Science, 2013, , 117-128.	0.5	0
135	Exploiting Web Sites Structural and Content Features for Web Pages Clustering. Lecture Notes in Computer Science, 2017, , 446-456.	1.3	0
136	Exploiting Pattern Set Dissimilarity for Detecting Changes in Communication Networks. Studies in Computational Intelligence, 2020, , 137-152.	0.9	0
137	Leveraging Multi-target Regression for Predicting the Next Parallel Activities in Event Logs. Communications in Computer and Information Science, 2020, , 237-248.	0.5	0
138	Top-Down Induction of Relational Model Trees in Multi-instance Learning. Lecture Notes in Computer Science, 2008, , 24-41.	1.3	0