Tania Cerquitelli

List of Publications by Year in Descending Order

99 papers	777 citations	14 h-index	22 g-index
107 ext. papers	925 ext. citations	3.7 avg, IF	4.46 L-index

#	Paper	IF	Citations
99	Data-driven strategies for predictive maintenance: Lesson learned from an automotive use case. *Computers in Industry*, **2022**, 134, 103554	11.6	0
98	Cinematographic Shot Classification with Deep Ensemble Learning. *Electronics (Switzerland)*, **2022**, 11, 1570	2.6	1
97	Simplifying Text Mining Activities: Scalable and Self-Tuning Methodology for Topic Detection and Characterization. *Applied Sciences (Switzerland)*, **2022**, 12, 5125	2.6	0
96	Attention to Fires: Multi-Channel Deep Learning Models for Wildfire Severity Prediction. *Applied Sciences (Switzerland)*, **2021**, 11, 11060	2.6	3
95	. *Proceedings of the IEEE*, **2021**, 109, 399-422	14.3	14
94	K-MDTSC: K-Multi-Dimensional Time-Series Clustering Algorithm. *Electronics (Switzerland)*, **2021**, 10, 1166	2.6	2
93	Breakthroughs on Cross-Cutting Data Management, Data Analytics, and Applied Data Science. *Information Systems Frontiers*, **2021**, 23, 1-7	4	6
92	Predictive Maintenance in the Production of Steel Bars: A Data-Driven Approach. *Information Fusion and Data Science*, **2021**, 187-205	0.3	0
91	Industrial Digitisation and Maintenance: Present and Future. *Information Fusion and Data Science*, **2021**, 3-18	0.3	
90	A Hybrid Cloud-to-Edge Predictive Maintenance Platform. *Information Fusion and Data Science*, **2021**, 19-37	0.3	
89	Empowering Commercial Vehicles through Data-Driven Methodologies. *Electronics (Switzerland)*, **2021**, 10, 2381	2.6	
88	Dissecting a data-driven prognostic pipeline: A powertrain use case. *Expert Systems With Applications*, **2021**, 180, 115109	7.8	4
87	Enhancing manufacturing intelligence through an unsupervised data-driven methodology for cyclic industrial processes. *Expert Systems With Applications*, **2021**, 182, 115269	7.8	2
86	Data-Driven Predictive Maintenance: A Methodology Primer. *Information Fusion and Data Science*, **2021**, 39-73	0.3	
85	Services to Facilitate Predictive Maintenance in Industry4.0. *Information Fusion and Data Science*, **2021**, 75-95	0.3	
84	A Data-Driven Energy Platform: From Energy Performance Certificates to Human-Readable Knowledge through Dynamic High-Resolution Geospatial Maps. *Electronics (Switzerland)*, **2020**, 9, 2132	2.6	1
83	REDTag: A Predictive Maintenance Framework for Parcel Delivery Services. *IEEE Access*, **2020**, 8, 14953-14964	3.9	9

82	A Cloud-to-Edge Approach to Support Predictive Analytics in Robotics Industry. *Electronics (Switzerland)*, **2020**, 9, 492	2.6	18
81	Data-Driven Estimation of Heavy-Truck Residual Value at the Buy-Back. *IEEE Access*, **2020**, 8, 102409-102418	4.1	2
80	Proactive user engagement via friendly survey and data-driven methodologies **2020**,		1
79	Cinematographic Shot Classification through Deep Learning **2020**,		3
78	PREMISES, a Scalable Data-Driven Service to Predict Alarms in Slowly-Degrading Multi-Cycle Industrial Processes **2019**,		9
77	Towards a real-time unsupervised estimation of predictive model degradation **2019**,		6
76	Exploiting Scalable Machine-Learning Distributed Frameworks to Forecast Power Consumption of Buildings. *Energies*, **2019**, 12, 2933	3.1	6
75	Robot fault detection and remaining life estimation for predictive maintenance. *Procedia Computer Science*, **2019**, 151, 709-716	1.6	14
74	Forecasting Heating Consumption in Buildings: A Scalable Full-Stack Distributed Engine. *Electronics (Switzerland)*, **2019**, 8, 491	2.6	6
73	Towards an Automated, Fast and Interpretable Estimation Model of Heating Energy Demand: A Data-Driven Approach Exploiting Building Energy Certificates. *Energies*, **2019**, 12, 1273	3.1	17
72	Towards Automated Visualisation of Scientific Literature. *Communications in Computer and Information Science*, **2019**, 28-36	0.3	1
71	Visualising high-resolution energy maps through the exploratory analysis of energy performance certificates **2019**,		1
70	A New Unsupervised Predictive-Model Self-Assessment Approach That SCALEs **2019**,		7
69	Optimization of computer aided detection systems: An evolutionary approach. *Expert Systems With Applications*, **2018**, 100, 145-156	7.8	10
68	Data Mining in Databases: Languages and Indices. *Studies in Big Data*, **2018**, 341-351	0.9	
67	Characterizing unpredictable patterns in Wireless Sensor Network data. *Information Sciences*, **2018**, 467, 149-162	7.7	6
66	METATECH: METeorological Data Analysis for Thermal Energy CHaracterization by Means of Self-Learning Transparent Models. *Energies*, **2018**, 11, 1336	3.1	9
65	Characterizing Situations of Dock Overload in Bicycle Sharing Stations. *Applied Sciences (Switzerland)*, **2018**, 8, 2521	2.6	3

64	Mining Sensor Data for Predictive Maintenance in the Automotive Industry **2018**,		8
63	**2018**,		19
62	Useful ToPIC: Self-Tuning Strategies to Enhance Latent Dirichlet Allocation **2018**,		4
61	Predicting critical conditions in bicycle sharing systems. *Computing (Vienna/New York)*, **2017**, 99, 39-57	2.2	17
60	Discovering profitable stocks for intraday trading. *Information Sciences*, **2017**, 405, 91-106	7.7	9
59	Data minersXlittle helper **2017**,		3
58	A Parallel MapReduce Algorithm to Efficiently Support Itemset Mining on High Dimensional Data. *Big Data Research*, **2017**, 10, 53-69	3.7	12
57	Frequent Itemsets Mining for Big Data: A Comparative Analysis. *Big Data Research*, **2017**, 9, 67-83	3.7	27
56	Twitter data laid almost bare: An insightful exploratory analyser. *Expert Systems With Applications*, **2017**, 90, 501-517	7.8	7
55	Predicting Large Scale Fine Grain Energy Consumption. *Energy Procedia*, **2017**, 111, 1079-1088	2.3	7
54	Exploring Energy Certificates of Buildings through Unsupervised Data Mining Techniques **2017**,		4
53	All in a twitter: Self-tuning strategies for a deeper understanding of a crisis tweet collection **2017**,		2
52	Self-tuning techniques for large scale cluster analysis on textual data collections **2017**,		9
51	Modeling Correlations among Air Pollution-Related Data through Generalized Association Rules **2016**,		6
50	SeLINA: A Self-Learning Insightful Network Analyzer. *IEEE Transactions on Network and Service Management*, **2016**, 13, 696-710	4.8	18
49	Data mining for better healthcare: A path towards automated data analysis? **2016**,		6
48	Exploiting clustering algorithms in a multiple-level fashion: A comparative study in the medical care scenario. *Expert Systems With Applications*, **2016**, 55, 297-312	7.8	11
47	SaFe-NeC: A scalable and flexible system for network data characterization **2016**,		2

46	Discovering users with similar internet access performance through cluster analysis. *Expert Systems With Applications*, **2016**, 64, 536-548	7.8	4
45	Digging deep into weighted patient data through multiple-level patterns. *Information Sciences*, **2015**, 322, 51-71	7.7	3
44	Energy Signature Analysis: Knowledge at Your Fingertips **2015**,		11
43	MeTA. *ACM Transactions on Intelligent Systems and Technology*, **2015**, 6, 1-25	8	9
42	Scalable out-of-core itemset mining. *Information Sciences*, **2015**, 293, 146-162	7.7	5
41	PaMPa-HD: A Parallel MapReduce-Based Frequent Pattern Miner for High-Dimensional Data **2015**,		6
40	Reducing the search space in ontology alignment using clustering techniques and topic identification **2015**,		4
39	Misleading Generalized Itemset discovery. *Expert Systems With Applications*, **2014**, 41, 1400-1410	7.8	11
38	Twitter data analysis by means of Strong Flipping Generalized Itemsets. *Journal of Systems and Software*, **2014**, 94, 16-29	3.3	7
37	Expressive generalized itemsets. *Information Sciences*, **2014**, 278, 327-343	7.7	11
36	NEMICO: Mining Network Data through Cloud-Based Data Mining Techniques **2014**,		2
35	A Clustering-Based Approach to Analyse Examinations for Diabetic Patients **2014**,		7
34	Misleading Generalized Itemset Mining in the Cloud **2014**,		4
33	Early prediction of the highest workload in incremental cardiopulmonary tests. *ACM Transactions on Intelligent Systems and Technology*, **2013**, 4, 1-20	8	4
32	Fault Detection Analysis of Building Energy Consumption Using Data Mining Techniques. *Energy Procedia*, **2013**, 42, 557-566	2.3	52
31	NetCluster: A clustering-based framework to analyze internet passive measurements data. *Computer Networks*, **2013**, 57, 3300-3315	5.4	3
30	Analysis of diabetic patients through their examination history. *Expert Systems With Applications*, **2013**, 40, 4672-4678	7.8	30
29	SeaRum: A Cloud-Based Service for Association Rule Mining **2013**,		9

28	P-Mine: Parallel itemset mining on large datasets **2013**,		10
27	Frequent weighted itemset mining from gene expression data **2013**,		2
26	Analysis of Twitter Data Using a Multiple-level Clustering Strategy. *Lecture Notes in Computer Science*, **2013**, 13-24	0.9	13
25	Wireless Sensor Network Design for Energy-Efficient Monitoring. *Advances in Computational Intelligence and Robotics Book Series*, **2013**, 134-156	0.4	
24	Semi-Automatic Knowledge Extraction to Enrich Open Linked Data **2013**, 156-180		
23	Semi-Automatic Ontology Construction by Exploiting Functional Dependencies and Association Rules **2013**, 76-96		1
22	Generalized association rule mining with constraints. *Information Sciences*, **2012**, 194, 68-84	7.7	49
21	Semi-Automatic Ontology Construction by Exploiting Functional Dependencies and Association Rules. *International Journal on Semantic Web and Information Systems*, **2011**, 7, 1-22	1.4	2
20	Energy-saving models for wireless sensor networks. *Knowledge and Information Systems*, **2011**, 28, 615-644	2.4	17
19	CAS-Mine: providing personalized services in context-aware applications by means of generalized rules. *Knowledge and Information Systems*, **2011**, 28, 283-310	2.4	23
18	An Efficient Itemset Mining Approach for Data Streams. *Lecture Notes in Computer Science*, **2011**, 515-523	3.9	3
17	Support driven opportunistic aggregation for generalized itemset extraction **2010**,		22
16	A persistent HY-Tree to efficiently support itemset mining on large datasets **2010**,		4
15	Predicting the highest workload in cardiopulmonary test **2010**,		2
14	Array-Tree: A persistent data structure to compactly store frequent itemsets **2010**,		3
13	NEtwork Digest Analysis Driven by Association Rule Discoverers. *Studies in Computational Intelligence*, **2010**, 41-71	0.8	
12	Intelligent Acquisition Techniques for Sensor Network Data **2010**, 159-178		
11	IMine: Index Support for Item Set Mining. *IEEE Transactions on Knowledge and Data Engineering*, **2009**, 21, 493-506	4.2	11

List of Publications

10	Real-time analysis of physiological data to support medical applications. *IEEE Transactions on Information Technology in Biomedicine*, **2009**, 13, 313-21		51
9	Characterizing network traffic by means of the NetMine framework. *Computer Networks*, **2009**, 53, 774-789	5.4	21
8	Context-Aware User and Service Profiling by Means of Generalized Association Rules. *Lecture Notes in Computer Science*, **2009**, 50-57	0.9	11
7	Network Digest analysis by means of association rules **2008**,		2
6	Real-Time Individuation of Global Unsafe Anomalies and Alarm Activation. *Studies in Computational Intelligence*, **2008**, 219-236	0.8	
5	Indexing Evolving Databases for Itemset Mining. *Studies in Computational Intelligence*, **2008**, 305-323	0.8	
4	Modeling a Sensor Network by means of Clustering **2007**,		8
3	SAPhyRA: Stream Analysis for Physiological Risk Assessment. *Proceedings of the IEEE Symposium on Computer-Based Medical Systems*, **2007**,		2
2	IGUANA: Individuation of Global Unsafe ANomalies and Alarm activation **2006**,		3
1	Discovering Higher Level Correlations from XML Data. *Advances in Data Mining and Database Management Book Series*,288-315	0.6	