

Manuel Roveri

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

1,776
citations

19
h-index

40
g-index

93
ext. papers

2,152
ext. citations

3.4
avg, IF

5.23
L-index

#	Paper	IF	Citations
84	Learning in Nonstationary Environments: A Survey. <i>IEEE Computational Intelligence Magazine</i> , 2015 , 10, 12-25	5.6	354
83	A Robust, Adaptive, Solar-Powered WSN Framework for Aquatic Environmental Monitoring. <i>IEEE Sensors Journal</i> , 2011 , 11, 45-55	4	176
82	Energy management in wireless sensor networks with energy-hungry sensors. <i>IEEE Instrumentation and Measurement Magazine</i> , 2009 , 12, 16-23	1.4	126
81	Just-in-Time Adaptive Classifiers Part I: Detecting Nonstationary Changes. <i>IEEE Transactions on Neural Networks</i> , 2008 , 19, 1145-1153		94
80	An Adaptive Sampling Algorithm for Effective Energy Management in Wireless Sensor Networks With Energy-Hungry Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 335-344	5.2	93
79	Just-in-time classifiers for recurrent concepts. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2013 , 24, 620-34	10.3	91
78	Just-in-time adaptive classifiers-part II: designing the classifier. <i>IEEE Transactions on Neural Networks</i> , 2008 , 19, 2053-64		58
77	A cognitive fault diagnosis system for distributed sensor networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2013 , 24, 1213-26	10.3	44
76	A just-in-time adaptive classification system based on the intersection of confidence intervals rule. <i>Neural Networks</i> , 2011 , 24, 791-800	9.1	44
75	Moving Convolutional Neural Networks to Embedded Systems: The AlexNet and VGG-16 Case 2018 ,		44
74	Adaptive Sampling for Energy Conservation in Wireless Sensor Networks for Snow Monitoring Applications 2007 ,		43
73	Hierarchical Change-Detection Tests. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 246-258	10.3	42
72	. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2017 , 1, 61-71	4.1	40
71	A Cloud to the Ground: The New Frontier of Intelligent and Autonomous Networks of Things 2016 , 54, 14-20		32
70	RTI Goes Wild: Radio Tomographic Imaging for Outdoor People Detection and Localization. <i>IEEE Transactions on Mobile Computing</i> , 2016 , 15, 2585-2598	4.6	29
69	Change detection tests using the ICI rule 2010 ,		29
68	2011 ,		25

67	A Self-Building and Cluster-Based Cognitive Fault Diagnosis System for Sensor Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 1021-1032	10.3	19
66	A high-frequency sampling monitoring system for environmental and structural applications. <i>ACM Transactions on Sensor Networks</i> , 2013 , 9, 1-32	2.9	19
65	Database Challenges for Exploratory Computing. <i>SIGMOD Record</i> , 2015 , 44, 17-22	1.1	19
64	An hybrid wireless-wired monitoring system for real-time rock collapse forecasting 2010 ,		18
63	The (Not) Far-Away Path to Smart Cyber-Physical Systems: An Information-Centric Framework. <i>Computer</i> , 2017 , 50, 38-47	1.6	16
62	An Adaptive LLC-Based and Hierarchical Power-Aware Routing Algorithm. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2009 , 58, 3347-3357	5.2	15
61	An HMM-based change detection method for intelligent embedded sensors 2012 ,		14
60	An effective just-in-time adaptive classifier for gradual concept drifts 2011 ,		14
59	Exploiting self-similarity for change detection 2014 ,		13
58	Virtual k-fold cross validation: An effective method for accuracy assessment 2010 ,		13
57	Ensembles of change-point methods to estimate the change point in residual sequences. <i>Soft Computing</i> , 2013 , 17, 1971-1981	3.5	10
56	2012 ,		10
55	Detecting External Disturbances on the Camera Lens in Wireless Multimedia Sensor Networks. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 2982-2990	5.2	10
54	2008 ,		10
53	Incremental On-Device Tiny Machine Learning 2020 ,		10
52	A cognitive monitoring system for contaminant detection in intelligent buildings 2014 ,		8
51	Just-in-time ensemble of classifiers 2012 ,		8
50	Model ensemble for an effective on-line reconstruction of missing data in sensor networks 2013 ,		8

49	Model- vs. data-based approaches applied to fault diagnosis in potable water supply networks. <i>Journal of Hydroinformatics</i> , 2016 , 18, 831-850	2.6	8
48	Intelligent Cyber-Physical Systems for Industry 4.0 2018 ,		8
47	False Data Detection for Fog and Internet of Things Networks. <i>Sensors</i> , 2019 , 19,	3.8	7
46	A Cognitive Monitoring System for Detecting and Isolating Contaminants and Faults in Intelligent Buildings. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 433-447	7.3	7
45	Just-in-Time Adaptive Algorithm for Optimal Parameter Setting in 802.15.4 WSNs. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , 2016 , 10, 1-26	1.2	7
44	An energy harvesting solution for computation offloading in Fog Computing networks. <i>Computer Communications</i> , 2020 , 160, 577-587	5.1	7
43	Learning Discrete-Time Markov Chains Under Concept Drift. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 2570-2582	10.3	6
42	An Ensemble Approach for Cognitive Fault Detection and Isolation in Sensor Networks. <i>International Journal of Neural Systems</i> , 2017 , 27, 1650047	6.2	6
41	Learning in Nonstationary Environments: A Hybrid Approach. <i>Lecture Notes in Computer Science</i> , 2017 , 703-714	0.9	6
40	Adaptive Classifiers with ICI-Based Adaptive Knowledge Base Management. <i>Lecture Notes in Computer Science</i> , 2010 , 458-467	0.9	6
39	Wireless Sensor Networks for Monitoring Vineyards. <i>Lecture Notes in Computer Science</i> , 2012 , 295-310	0.9	6
38	An incremental learning mechanism for human activity recognition 2016 ,		6
37	Learning Convolutional Neural Networks in presence of Concept Drift 2019 ,		6
36	. <i>IEEE Transactions on Computers</i> , 2021 , 70, 1239-1252	2.5	6
35	. <i>IEEE Systems Journal</i> , 2016 , 10, 733-744	4.3	5
34	2017 ,		5
33	2012 ,		5
32	A Learning from Models Cognitive Fault Diagnosis System. <i>Lecture Notes in Computer Science</i> , 2012 , 305-313	0.9	5

31	A reconfigurable and element-wise ICI-based change-detection test for streaming data 2014 ,		4
30	An ensemble approach to estimate the fault-time instant 2013 ,		4
29	Towards a credible WSNs deployment: a monitoring framework based on an adaptive communication protocol and energy-harvesting availability 2008 ,		4
28	A Real-Time Monitoring Framework for Landslide and Rock-Collapse Forecasting. <i>Lecture Notes in Electrical Engineering</i> , 2012 , 285-302	0.2	4
27	A Hierarchy of Change-Point Methods for Estimating the Time Instant of Leakages in Water Distribution Networks. <i>IFIP Advances in Information and Communication Technology</i> , 2013 , 615-624	0.5	4
26	INDIANA: An interactive system for assisting database exploration. <i>Information Systems</i> , 2019 , 83, 40-56	2.7	4
25	Reducing the Computation Load of Convolutional Neural Networks through Gate Classification 2018 ,		4
24	A learning-based algorithm for optimal mac parameters setting in IEEE 802.15.4 wireless sensor networks 2013 ,		3
23	Birdsong Detection at the Edge with Deep Learning 2021 ,		3
22	A lightweight and energy-efficient Internet-of-birds tracking system 2017 ,		2
21	Adaptive Classifiers for Nonstationary Environments 2015 , 265-288		2
20	Learning causal dependencies to detect and diagnose faults in sensor networks 2014 ,		2
19	A step towards the prediction of a rock collapse: analysis of micro-acoustic bursts 2011 ,		2
18	Genetic Techniques for Pattern Extraction in Particle Boards Images 2006 ,		2
17	Reducing Computational Complexity in k-NN based Adaptive Classifiers 2007 ,		2
16	Sensors and Wireless Sensor Networks as Data Sources: Models and Languages. <i>Data-centric Systems and Applications</i> , 2015 , 69-92	0	2
15	An Ensemble of HMMs for Cognitive Fault Detection in Distributed Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2014 , 90-100	0.9	2
14	A Distributed Self-adaptive Nonparametric Change-Detection Test for Sensor/Actuator Networks. <i>Lecture Notes in Computer Science</i> , 2011 , 173-180	0.9	2

13	Online model-free sensor fault identification and dictionary learning in Cyber-Physical Systems 2016 ,		2
12	Corrosion Prediction in Oil and Gas Pipelines: a Machine Learning Approach 2020 ,		1
11	A spectrum-based adaptive sampling algorithm for smart sensing 2017 ,		1
10	An Improved Hilbert-Huang Transform for Non-linear and Time-Variant Signals. <i>Smart Innovation, Systems and Technologies</i> , 2018 , 109-117	0.5	1
9	Making Intelligent the Embedded Systems Through Cognitive Outlier and Fault Detection. <i>Smart Innovation, Systems and Technologies</i> , 2016 , 381-390	0.5	1
8	Designing HMMs in the Age of Big Data. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 120-130	0.4	1
7	Computational intelligence techniques to detect toxic gas presence 2006 ,		1
6	Capacity Planning of Fog Computing Infrastructures for Smart Monitoring. <i>Communications in Computer and Information Science</i> , 2018 , 72-81	0.3	1
5	Leak detection and localization in water distribution networks by combining expert knowledge and data-driven models. <i>Neural Computing and Applications</i> ,1	4.8	0
4	A transfer-learning approach for corrosion prediction in pipeline infrastructures. <i>Applied Intelligence</i> ,1	4.9	0
3	Guest Editorial Special Issue on Recent Advances in Theory, Methodology, and Applications of Imbalanced Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 2688-2690	10.3	0
2	Algorithms and Tools for Intelligent Monitoring of Critical Infrastructure Systems. <i>Studies in Computational Intelligence</i> , 2015 , 167-184	0.8	
1	A CPM-Based Change Detection Test for Big Data. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 100-110	0.4	