

# Sutharshan Rajasegarar

## List of Publications by Year in descending order

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Version: 2024-02-01

101  
papers

4,298  
citations

293460

24  
h-index

175968

55  
g-index

105  
all docs

105  
docs citations

105  
times ranked

4294  
citing authors

#	ARTICLE	IF	CITATIONS
1	EmoSeC: Emotion recognition from scene context. <i>Neurocomputing</i> , 2022, 492, 174-187.	3.5	7
2	Multi-attention graph neural networks for city-wide bus travel time estimation using limited data. <i>Expert Systems With Applications</i> , 2022, 202, 117057.	4.4	16
3	Visual Structural Assessment and Anomaly Detection for High-Velocity Data Streams. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 5979-5992.	6.2	6
4	LGAttNet: Automatic micro-expression detection using dual-stream local and global attentions. <i>Knowledge-Based Systems</i> , 2021, 212, 106566.	4.0	29
5	Effect of Stress on Cardiorespiratory Synchronization of Ironman Athletes. <i>Frontiers in Physiology</i> , 2021, 12, 612245.	1.3	9
6	Boosting Emotion Recognition in Context using Non-target Subject Information. , 2021, , .		3
7	Deep learning algorithms for cyber security applications: A survey. <i>Journal of Computer Security</i> , 2021, 29, 447-471.	0.5	9
8	A Novel Insider Attack and Machine Learning Based Detection for the Internet of Things. <i>ACM Transactions on Internet of Things</i> , 2021, 2, 1-23.	3.4	9
9	The Role of Visual Assessment of Clusters for Big Data Analysis: From Real-World Internet of Things. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , 2020, 6, 45-53.	1.2	12
10	Deep Metric Learning Based Citrus Disease Classification With Sparse Data. <i>IEEE Access</i> , 2020, 8, 162588-162600.	2.6	36
11	Complex Emotion Profiling: An Incremental Active Learning Based Approach With Sparse Annotations. <i>IEEE Access</i> , 2020, 8, 147711-147727.	2.6	12
12	Gathering Intelligence on Student Information Behavior Using Data Mining. <i>Library Trends</i> , 2020, 68, 636-658.	0.2	1
13	VoterChoice: A ransomware detection honeypot with multiple voting framework. <i>Concurrency Computation Practice and Experience</i> , 2020, 32, e5726.	1.4	13
14	Graph Deep Learning Based Anomaly Detection in Ethereum Blockchain Network. <i>Lecture Notes in Computer Science</i> , 2020, , 132-148.	1.0	18
15	Robust Patient Information Embedding and Retrieval Mechanism for ECG Signals. <i>IEEE Access</i> , 2020, 8, 181233-181245.	2.6	9
16	Multimodal Deep Learning Framework for Sentiment Analysis from Text-Image Web Data. , 2020, , .		4
17	IoT Insider Attack - Survey. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2020, , 28-41.	0.2	2
18	Multi-attention 3D Residual Neural Network for Origin-Destination Crowd Flow Prediction. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
19	A Rapid Hybrid Clustering Algorithm for Large Volumes of High Dimensional Data. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 641-654.	4.0	52
20	Bus travel time prediction with real-time traffic information. Transportation Research Part C: Emerging Technologies, 2019, 105, 536-549.	3.9	68
21	Investigation of Complexity and Regulatory Role of Physiological Activities During a Pacing Exercise. IEEE Access, 2019, 7, 152334-152346.	2.6	1
22	Deep Learning and One-class SVM based Anomalous Crowd Detection. , 2019, , .		12
23	A Scalable Framework for Trajectory Prediction. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3860-3874.	4.7	44
24	Detecting Micro-expression Intensity Changes from Videos Based on Hybrid Deep CNN. Lecture Notes in Computer Science, 2019, , 387-399.	1.0	10
25	Detection of Smoking Events from Confounding Activities of Daily Living. , 2019, , .		13
26	Emotion Intensity Estimation from Video Frames using Deep Hybrid Convolutional Neural Networks. , 2019, , .		8
27	Insider Attacks on Zigbee Based IoT Networks by Exploiting AT Commands. Communications in Computer and Information Science, 2019, , 77-91.	0.4	1
28	Breast Cancer Recurrence Prediction Using Random Forest Model. Advances in Intelligent Systems and Computing, 2018, , 318-329.	0.5	13
29	Efficient Unsupervised Parameter Estimation for One-Class Support Vector Machines. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5057-5070.	7.2	48
30	Real-Time Urban Microclimate Analysis Using Internet of Things. IEEE Internet of Things Journal, 2018, 5, 500-511.	5.5	50
31	Ensemble Fuzzy Clustering Using Cumulative Aggregation on Random Projections. IEEE Transactions on Fuzzy Systems, 2018, 26, 1510-1524.	6.5	56
32	Crowd Activity Change Point Detection in Videos via Graph Stream Mining. , 2018, , .		5
33	Cluster-Based Crowd Movement Behavior Detection. , 2018, , .		8
34	Approximate Cluster Heat Maps of Large High-Dimensional Data. , 2018, , .		4
35	Scalable Bottom-up Subspace Clustering using FP-Trees for High Dimensional Data. , 2018, , .		3
36	Bayesian maximum entropy and interacting multiple model based automatic sensor drift detection and correction in an IoT environment. , 2018, , .		2

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37	User Activity Pattern Analysis in Telecare Data. IEEE Access, 2018, 6, 33306-33317.	2.6	1
38	Fast and Scalable Big Data Trajectory Clustering for Understanding Urban Mobility. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3709-3722.	4.7	35
39	Graph Stream Mining Based Anomalous Event Analysis. Lecture Notes in Computer Science, 2018, , 891-903.	1.0	2
40	Distributed Detection of Zero-Day Network Traffic Flows. Communications in Computer and Information Science, 2018, , 173-191.	0.4	0
41	Relationship Between Angiotensin Converting Enzyme Gene and Cardiac Autonomic Neuropathy Among Australian Population. Advances in Intelligent Systems and Computing, 2018, , 135-146.	0.5	0
42	Adaptive Cluster Tendency Visualization and Anomaly Detection for Streaming Data. ACM Transactions on Knowledge Discovery From Data, 2017, 11, 1-40.	2.5	23
43	A visual-numeric approach to clustering and anomaly detection for trajectory data. Visual Computer, 2017, 33, 265-281.	2.5	52
44	Fog-Empowered Anomaly Detection in IoT Using Hyperellipsoidal Clustering. IEEE Internet of Things Journal, 2017, 4, 1174-1184.	5.5	91
45	Maximum Entropy-Based Auto Drift Correction Using High- and Low-Precision Sensors. ACM Transactions on Sensor Networks, 2017, 13, 1-41.	2.3	10
46	Improving load forecasting based on deep learning and K-shape clustering. , 2017, , .		55
47	Non-invasive sensor based automated smoking activity detection. , 2017, 2017, 845-848.		21
48	Orness and Cardinality Indices for Averaging Inclusion-Exclusion Integrals. Lecture Notes in Computer Science, 2017, , 51-62.	1.0	3
49	R1STM: One-class Support Tensor Machine with Randomised Kernel. , 2016, , .		8
50	High-dimensional and large-scale anomaly detection using a linear one-class SVM with deep learning. Pattern Recognition, 2016, 58, 121-134.	5.1	791
51	Anomaly detection in non-stationary data: Ensemble based self-adaptive OCSVM. , 2016, , .		6
52	Pedestrian behaviour analysis using the microsoft kinect. , 2016, , .		0
53	A Hybrid Approach to Clustering in Big Data. IEEE Transactions on Cybernetics, 2016, 46, 2372-2385.	6.2	94
54	Unsupervised Parameter Estimation for One-Class Support Vector Machines. Lecture Notes in Computer Science, 2016, , 183-195.	1.0	14

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55	Node Re-Ordering as a Means of Anomaly Detection in Time-Evolving Graphs. Lecture Notes in Computer Science, 2016, , 162-178.	1.0	3
56	Anomalous Behavior Detection in Crowded Scenes Using Clustering and Spatio-Temporal Features. IFIP Advances in Information and Communication Technology, 2016, , 132-141.	0.5	7
57	Acoustic and Device Feature Fusion for Load Recognition. Studies in Computational Intelligence, 2016, , 287-300.	0.7	0
58	DP1SVM: A dynamic planar one-class support vector machine for Internet of Things environment. , 2015, , .		14
59	Geospatial Estimation-Based Auto Drift Correction in Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2015, 11, 1-39.	2.3	13
60	Parking availability prediction for sensor-enabled car parks in smart cities. , 2015, , .		59
61	Pattern based anomalous user detection in cognitive radio networks. , 2015, , .		6
62	Profiling Pedestrian Distribution and Anomaly Detection in a Dynamic Environment. , 2015, , .		9
63	An Embedding Scheme for Detecting Anomalous Block Structured Graphs. Lecture Notes in Computer Science, 2015, , 215-227.	1.0	1
64	Detection of Anomalous Crowd Behaviour Using Hyperspherical Clustering. , 2014, , .		13
65	Spatio-temporal estimation with Bayesian maximum entropy and compressive sensing in communication constrained networks. , 2014, , .		1
66	Profiling spatial and temporal behaviour in sensor networks: A case study in energy monitoring. , 2014, , .		7
67	Streaming analysis in wireless sensor networks. Wireless Communications and Mobile Computing, 2014, 14, 905-921.	0.8	22
68	Hyperspherical cluster based distributed anomaly detection in wireless sensor networks. Journal of Parallel and Distributed Computing, 2014, 74, 1833-1847.	2.7	80
69	An adaptive elliptical anomaly detection model for wireless sensor networks. Computer Networks, 2014, 64, 195-207.	3.2	24
70	High resolution spatio-temporal monitoring of air pollutants using wireless sensor networks. , 2014, , .		19
71	High-Resolution Monitoring of Atmospheric Pollutants Using a System of Low-Cost Sensors. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3823-3832.	2.7	19
72	Smart car parking: Temporal clustering and anomaly detection in urban car parking. , 2014, , .		35

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73	Anomaly Detection in Wireless Sensor Networks in a Non-Stationary Environment. IEEE Communications Surveys and Tutorials, 2014, 16, 1413-1432.	24.8	87
74	Ellipsoidal neighbourhood outlier factor for distributed anomaly detection in resource constrained networks. Pattern Recognition, 2014, 47, 2867-2879.	5.1	34
75	Combined multiclass classification and anomaly detection for large-scale Wireless Sensor Networks. , 2013, , .		16
76	Automatic Sensor Drift Detection and Correction Using Spatial Kriging and Kalman Filtering. , 2013, , .		31
77	Optimization of an energy harvesting buoy for coral reef monitoring. , 2013, , .		12
78	clusiVAT: A mixed visual/numerical clustering algorithm for big data. , 2013, , .		22
79	Online anomaly rate parameter tracking for anomaly detection in wireless sensor networks. , 2012, , .		10
80	Acoustic and device feature fusion for load recognition. , 2012, , .		10
81	Measures for clustering and anomaly detection in sets of higher dimensional ellipsoids. , 2012, , .		10
82	Non-Intrusive Load Monitoring Approaches for Disaggregated Energy Sensing: A Survey. Sensors, 2012, 12, 16838-16866.	2.1	801
83	Spatio-temporal modelling-based drift-aware wireless sensor networks. IET Wireless Sensor Systems, 2011, 1, 110-122.	1.3	31
84	Anomaly Detection in Environmental Monitoring Networks [Application Notes]. IEEE Computational Intelligence Magazine, 2011, 6, 52-58.	3.4	35
85	Clustering ellipses for anomaly detection. Pattern Recognition, 2011, 44, 55-69.	5.1	77
86	An efficient hyperellipsoidal clustering algorithm for resource-constrained environments. Pattern Recognition, 2011, 44, 2197-2209.	5.1	31
87	Incremental Elliptical Boundary Estimation for Anomaly Detection in Wireless Sensor Networks. , 2011, , .		28
88	An efficient approach to detecting concept-evolution in network data streams. , 2011, , .		3
89	Centered Hyperspherical and Hyperellipsoidal One-Class Support Vector Machines for Anomaly Detection in Sensor Networks. IEEE Transactions on Information Forensics and Security, 2010, 5, 518-533.	4.5	128
90	Clustering elliptical anomalies in sensor networks. , 2010, , .		11

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91	Labelled data collection for anomaly detection in wireless sensor networks. , 2010, , .		83
92	Sensor data boundary estimation for anomaly detection in wireless sensor networks. , 2010, , .		10
93	Distributed training of multiclass conic-segmentation support vector machines on communication constrained networks. , 2010, , .		8
94	Elliptical anomalies in wireless sensor networks. ACM Transactions on Sensor Networks, 2009, 6, 1-28.	2.3	54
95	Detecting Data Anomalies in Wireless Sensor Networks. , 2009, , 231-259.		23
96	Anomaly detection by clustering ellipsoids in wireless sensor networks. , 2009, , .		39
97	Anomaly detection in wireless sensor networks. IEEE Wireless Communications, 2008, 15, 34-40.	6.6	228
98	CESVM: Centered Hyperellipsoidal Support Vector Machine Based Anomaly Detection. , 2008, , .		22
99	Quarter Sphere Based Distributed Anomaly Detection in Wireless Sensor Networks. , 2007, , .		125
100	Analysis of Anomalies in IBRL Data from a Wireless Sensor Network Deployment. , 2007, , .		13
101	Distributed Anomaly Detection in Wireless Sensor Networks. , 2006, , .		175