

# Djenouri Djamel

## List of Publications by Year in descending order

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110  
papers

2,697  
citations

218677

26  
h-index

214800

47  
g-index

114  
all docs

114  
docs citations

114  
times ranked

2391  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergent Deep Learning for Anomaly Detection in Internet of Everything. IEEE Internet of Things Journal, 2023, 10, 3206-3214.	8.7	10
2	Deep Learning Versus Traditional Solutions for Group Trajectory Outliers. IEEE Transactions on Cybernetics, 2022, 52, 4508-4519.	9.5	22
3	On Predicting Sensor Readings With Sequence Modeling and Reinforcement Learning for Energy-Efficient IoT Applications. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5140-5151.	9.3	3
4	Intelligent Deep Fusion Network for Anomaly Identification in Maritime Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-9.	8.0	3
5	Hybrid RESNET and Regional Convolution Neural Network Framework for Accident Estimation in Smart Roads. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 25335-25344.	8.0	5
6	Deep learning for pedestrian collective behavior analysis in smart cities: A model of group trajectory outlier detection. Information Fusion, 2021, 65, 13-20.	19.1	93
7	A Two-Phase Anomaly Detection Model for Secure Intelligent Transportation Ride-Hailing Trajectories. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4496-4506.	8.0	40
8	Cluster-based information retrieval using pattern mining. Applied Intelligence, 2021, 51, 1888-1903.	5.3	25
9	Towards Energy Efficient Clustering in Wireless Sensor Networks: A Comprehensive Review. IEEE Access, 2021, 9, 92688-92705.	4.2	30
10	Trajectory Outlier Detection. ACM Transactions on Knowledge Discovery From Data, 2021, 15, 1-28.	3.5	37
11	Towards Optimized One-Step Clustering Approach in Wireless Sensor Networks. Wireless Personal Communications, 2021, 120, 1501-1523.	2.7	2
12	Machine Learning for Identifying Group Trajectory Outliers. ACM Transactions on Management Information Systems, 2021, 12, 1-25.	2.8	14
13	LSTM for Periodic Broadcasting in Green IoT Applications over Energy Harvesting Enabled Wireless Networks: Case Study on ADAPCAST. , 2021, , .		1
14	Machine Learning for Smart Building Applications. ACM Computing Surveys, 2020, 52, 1-36.	23.0	95
15	When the Decomposition Meets the Constraint Satisfaction Problem. IEEE Access, 2020, 8, 207034-207043.	4.2	1
16	A recurrent neural network for urban long-term traffic flow forecasting. Applied Intelligence, 2020, 50, 3252-3265.	5.3	39
17	DFIOT: Data Fusion for Internet of Things. Journal of Network and Systems Management, 2020, 28, 1136-1160.	4.9	17
18	GBSO-RSS: GPU-Based BSO for Rules Space Summarization. Advances in Intelligent Systems and Computing, 2019, , 123-129.	0.6	5

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19	Exploiting GPU and cluster parallelism in single scan frequent itemset mining. Information Sciences, 2019, 496, 363-377.	6.9	46
20	Exploiting GPU parallelism in improving bees swarm optimization for mining big transactional databases. Information Sciences, 2019, 496, 326-342.	6.9	34
21	Single Scan Polynomial Algorithms for Frequent Itemset Mining in Big Databases. , 2019, , .		1
22	A Novel Parallel Framework for Metaheuristic-based Frequent Itemset Mining. , 2019, , .		1
23	Wireless energy efficient occupancy-monitoring system for smart buildings. Pervasive and Mobile Computing, 2019, 59, 101037.	3.3	11
24	Multiple Benefits through Smart Home Energy Management Solutionsâ€”A Simulation-Based Case Study of a Single-Family-House in Algeria and Germany. Energies, 2019, 12, 1537.	3.1	25
25	GPU-based swarm intelligence for Association Rule Mining in big databases. Intelligent Data Analysis, 2019, 23, 57-76.	0.9	8
26	Balanced clustering approach with energy prediction and round-time adaptation in wireless sensor networks. International Journal of Communication Networks and Distributed Systems, 2019, 22, 245.	0.4	7
27	A Survey on Urban Traffic Anomalies Detection Algorithms. IEEE Access, 2019, 7, 12192-12205.	4.2	83
28	Bee swarm optimization for solving the MAXSAT problem using prior knowledge. Soft Computing, 2019, 23, 3095-3112.	3.6	9
29	IoT-DMCP: An IoT Data Management and Control Platform for Smart Cities. , 2019, , .		0
30	Networked Wireless Sensors, Active RFID, and Handheld Devices for Modern Car Park Management. , 2019, , 1012-1024.		1
31	How to exploit high performance computing in population-based metaheuristics for solving association rule mining problem. Distributed and Parallel Databases, 2018, 36, 369-397.	1.6	18
32	Intelligent mapping between GPU and cluster computing for discovering big association rules. Applied Soft Computing Journal, 2018, 65, 387-399.	7.2	16
33	Frequent Itemset Mining in Big Data With Effective Single Scan Algorithms. IEEE Access, 2018, 6, 68013-68026.	4.2	33
34	UDEPLOY: User-Driven Learning for Occupancy Sensors DEPLOYment In Smart Buildings. , 2018, , .		4
35	A new framework for metaheuristic-based frequent itemset mining. Applied Intelligence, 2018, 48, 4775-4791.	5.3	19
36	Adaptive learning-enforced broadcast policy for solar energy harvesting wireless sensor networks. Computer Networks, 2018, 143, 263-274.	5.1	7

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37	Reducing thread divergence in GPU-based bees swarm optimization applied to association rule mining. <i>Concurrency Computation Practice and Experience</i> , 2017, 29, e3836.	2.2	18
38	Optimal Placement of Relay Nodes Over Limited Positions in Wireless Sensor Networks. <i>IEEE Transactions on Wireless Communications</i> , 2017, 16, 2205-2219.	9.2	44
39	Energy-Aware Constrained Relay Node Deployment for Sustainable Wireless Sensor Networks. <i>IEEE Transactions on Sustainable Computing</i> , 2017, 2, 30-42.	3.1	46
40	SS-FIM: Single Scan for Frequent Itemsets Mining in Transactional Databases. <i>Lecture Notes in Computer Science</i> , 2017, , 644-654.	1.3	21
41	GPU-based Bio-inspired Model for Solving Association Rules Mining Problem. , 2017, , .		8
42	Performance optimization of duty-cycled MAC in delay-energy constrained sensor network under uniform and nonuniform traffic generation. <i>International Journal of Communication Systems</i> , 2017, 30, e3185.	2.5	3
43	ADABCAST: Adaptive broadcast approach for solar Energy Harvesting Wireless Sensor Networks. , 2017, , .		1
44	One-step clustering protocol for periodic traffic wireless sensor networks. , 2017, , .		6
45	Temporal and Spatial Coherence Verification in SMIL Documents with Hoare Logic and Disjunctive Constraints: A Hybrid Formal Method. <i>Journal of Integrated Design and Process Science</i> , 2017, 20, 39-70.	0.5	2
46	Diversification Heuristics in Bees Swarm Optimization for Association Rules Mining. <i>Lecture Notes in Computer Science</i> , 2017, , 68-78.	1.3	3
47	Data Mining-Based Decomposition for Solving the MAXSAT Problem: Toward a New Approach. <i>IEEE Intelligent Systems</i> , 2017, 32, 48-58.	4.0	27
48	Efficient on-demand multi-node charging techniques for wireless sensor networks. <i>Computer Communications</i> , 2017, 101, 44-56.	5.1	60
49	MAC Protocols With Wake-Up Radio for Wireless Sensor Networks: A Review. <i>IEEE Communications Surveys and Tutorials</i> , 2017, 19, 587-618.	39.4	102
50	New GPU-based swarm intelligence approach for reducing big association rules space. , 2017, , .		1
51	Synchronization Protocols and Implementation Issues in Wireless Sensor Networks: A Review. <i>IEEE Systems Journal</i> , 2016, 10, 617-627.	4.6	83
52	An oscillation-based algorithm for reliable vehicle detection with magnetic sensors. , 2016, , .		1
53	Parallel BSO Algorithm for Association Rules Mining Using Master/Worker Paradigm. <i>Lecture Notes in Computer Science</i> , 2016, , 258-268.	1.3	4
54	Energy Harvesting Aware Minimum Spanning Tree for Survivable WSN with Minimum Relay Node Addition. , 2016, , .		3

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55	New PBST-based multi-level clustering protocol for Wireless Sensors Networks. , 2016, , .		1
56	Game Theory Framework for MAC Parameter Optimization in Energy-Delay Constrained Sensor Networks. ACM Transactions on Sensor Networks, 2016, 12, 1-35.	3.6	10
57	One-Step Approach for Two-Tiered Constrained Relay Node Placement in Wireless Sensor Networks. IEEE Wireless Communications Letters, 2016, 5, 448-451.	5.0	30
58	Delay-efficient MAC protocol with traffic differentiation and run-time parameter adaptation for energy-constrained wireless sensor networks. Wireless Networks, 2016, 22, 467-490.	3.0	17
59	On the Effect of Sensing-holes in PIR-based Occupancy Detection Systems. , 2016, , .		3
60	Networked Wireless Sensors, Active RFID, and Handheld Devices for Modern Car Park Management. International Journal of Handheld Computing Research, 2015, 6, 33-45.	0.4	5
61	A variant of connected dominating set in unit disk graphs for applications in communication networks. , 2015, , .		1
62	Energy harvesting aware relay node addition for power-efficient coverage in wireless sensor networks. , 2015, , .		18
63	Distributed Low-Latency Data Aggregation Scheduling in Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2015, 11, 1-36.	3.6	53
64	BODâ€LEACH: broadcasting over dutyâ€cycled radio using LEACH clustering for delay/power efficient dissimulation in wireless sensor networks. International Journal of Communication Systems, 2015, 28, 296-308.	2.5	22
65	Car park management with networked wireless sensors and active RFID. , 2015, , .		45
66	Cost effective node deployment strategy for energy-balanced and delay-efficient data collection in wireless sensor networks. , 2014, , .		2
67	MSR: Minimum-Stop Recharging Scheme for Wireless Rechargeable Sensor Networks. , 2014, , .		2
68	MLE for Receiver-to-Receiver Time Synchronization in Wireless Networks with Exponential Distributed Delays. , 2014, , .		1
69	DZ50: Energy-efficient Wireless Sensor Mote Platform for Low Data Rate Applications. Procedia Computer Science, 2014, 37, 189-195.	2.0	14
70	Intertwined medium access scheduling of upstream and downstream traffic in wireless sensor networks. , 2014, , .		0
71	Preface of the 6th IEEE International Workshop on Management of Emerging Networks and Services (IEEE Globecom MENS 2014). , 2014, , .		0
72	Implementation of high precision synchronization protocols in wireless sensor networks. , 2014, , .		4

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73	Congestion Control Protocols in Wireless Sensor Networks: A Survey. IEEE Communications Surveys and Tutorials, 2014, 16, 1369-1390.	39.4	142
74	Interference-aware Congestion Control Protocol for Wireless Sensor Networks. Procedia Computer Science, 2014, 37, 181-188.	2.0	16
75	Congestion Detection Strategies in Wireless Sensor Networks: A Comparative Study with Testbed Experiments. Procedia Computer Science, 2014, 37, 168-175.	2.0	23
76	Synchronous contention-based MAC protocols for delay-sensitive wireless sensor networks: A review and taxonomy. Journal of Network and Computer Applications, 2014, 38, 172-184.	9.1	61
77	Survey on Latency Issues of Asynchronous MAC Protocols in Delay-Sensitive Wireless Sensor Networks. IEEE Communications Surveys and Tutorials, 2013, 15, 528-550.	39.4	84
78	Fast distributed multi-hop relative time synchronization protocol and estimators for wireless sensor networks. Ad Hoc Networks, 2013, 11, 2329-2344.	5.5	40
79	A Study of Wireless Sensor Networks for Urban Traffic Monitoring: Applications and Architectures. Procedia Computer Science, 2013, 19, 617-626.	2.0	86
80	Duo-MAC: Energy and time constrained data delivery MAC protocol in wireless sensor networks. , 2013, , .		4
81	Fault-tolerant implementation of a distributed MLE-based time synchronization protocol for wireless sensor networks. , 2013, , .		0
82	Ubiquitous sensor network management: The least interference beaconing model. , 2013, , .		11
83	On the Relevance of Using Interference and Service Differentiation Routing in the Internet-of-Things. Lecture Notes in Computer Science, 2013, , 25-35.	1.3	10
84	Theoretical Estimators and Lower-Bounds for Receiver-to-Receiver Time Synchronization in Multi-Hop Wireless Networks. , 2012, , .		0
85	$R^4_{Syn}$ : Relative Referenceless Receiver/Receiver Time Synchronization in Wireless Sensor Networks. IEEE Signal Processing Letters, 2012, 19, 175-178.	3.6	37
86	Slotted contention-based energy-efficient MAC protocols in delay-sensitive wireless sensor networks. , 2012, , .		1
87	Cluster-Based Fast Broadcast in Duty-Cycled Wireless Sensor Networks. , 2012, , .		3
88	A study of Wireless Sensor Network Architectures and Projects for Traffic Light Monitoring. Procedia Computer Science, 2012, 10, 543-552.	2.0	24
89	FDAP: Fast Data Aggregation Protocol in Wireless Sensor Networks. Lecture Notes in Computer Science, 2012, , 413-423.	1.3	1
90	Traffic-Differentiation-Based Modular QoS Localized Routing for Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2011, 10, 797-809.	5.8	71

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91	Estimators for RBS-based time synchronization in heterogeneous wireless networks. , 2011, , .		3
92	Self-repairing Clusters for Time-Efficient and Scalable Actor-Fault-Tolerance in Wireless Sensor and Actor Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 113-123.	0.3	0
93	Distributed Receiver/Receiver Synchronization in Wireless Sensor Networks: New Solution and Joint Offset/Skew Estimators for Gaussian Delays. Lecture Notes in Computer Science, 2011, , 13-24.	1.3	1
94	A gradual solution to detect selfish nodes in mobile ad hoc networks. International Journal of Wireless and Mobile Computing, 2010, 4, 264.	0.2	4
95	Power-aware QoS geographical routing for wireless sensor networks &#x2014; Implementation using Contiki. , 2010, , .		1
96	TOWARDS IMMUNIZING MANET'S SOURCE ROUTING PROTOCOLS AGAINST PACKET DROPPERS. Journal of Interconnection Networks, 2009, 10, 59-91.	1.0	0
97	On eliminating packet droppers in MANET: A modular solution. Ad Hoc Networks, 2009, 7, 1243-1258.	5.5	34
98	New QoS and Geographical Routing in Wireless Biomedical Sensor Networks. , 2009, , .		57
99	Black-hole-resistant ENADAIR-based routing protocol for Mobile Ad hoc Networks. International Journal of Security and Networks, 2009, 4, 246.	0.2	14
100	CoP4V : Context-Based Protocol for Vehicle's Safety in Highways Using Wireless Sensor Networks. , 2009, , .		3
101	LOCALMOR: Localized multi-objective routing for wireless sensor networks. , 2009, , .		10
102	Struggling against selfishness and black hole attacks in MANETs. Wireless Communications and Mobile Computing, 2008, 8, 689-704.	1.2	33
103	Preventing vehicle crashes through a wireless vehicular sensor network. , 2008, , .		9
104	VANET's Mobility Models and Overtaking: An Overview. , 2008, , .		21
105	A New Low Cost Sessions-Based Misbehaviour Detection Protocol (SMDP) for MANET. , 2007, , .		2
106	On Securing MANET Routing Protocol Against Control Packet Dropping. , 2007, , .		20
107	On Detecting Packets Droppers in MANET: A Novel Low Cost Approach. , 2007, , .		5
108	New power-aware routing protocol for mobile ad hoc networks. International Journal of Ad Hoc and Ubiquitous Computing, 2006, 1, 126.	0.5	22

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109	A survey of security issues in mobile ad hoc and sensor networks. IEEE Communications Surveys and Tutorials, 2005, 7, 2-28.	39.4	374
110	New approach for selfish nodes detection in mobile ad hoc networks. , 0, , .		13