

Malka N Halgamuge

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2391691/publications.pdf>

Version: 2024-02-01

109
papers

1,565
citations

331538

21
h-index

395590

33
g-index

117
all docs

117
docs citations

117
times ranked

1373
citing authors

#	ARTICLE	IF	CITATIONS
1	AN ESTIMATION OF SENSOR ENERGY CONSUMPTION. Progress in Electromagnetics Research B, 2009, 12, 259-295.	0.7	162
2	Adoption of the Internet of Things (IoT) in Agriculture and Smart Farming towards Urban Greening: A Review. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.5	83
3	Irrigation control based on model predictive control (MPC): Formulation of theory and validation using weather forecast data and AQUACROP model. Environmental Modelling and Software, 2016, 78, 40-53.	1.9	72
4	Analysis of large flood events: Based on flood data during 1985â€“2016 in Australia and India. International Journal of Disaster Risk Reduction, 2017, 24, 1-11.	1.8	61
5	The use and analysis of antiâ€“plagiarism software: Turnitin tool for formative assessment and feedback. Computer Applications in Engineering Education, 2017, 25, 895-909.	2.2	58
6	Measurement and analysis of electromagnetic fields from trams, trains and hybrid cars. Radiation Protection Dosimetry, 2010, 141, 255-268.	0.4	53
7	Effective Text Data Preprocessing Technique for Sentiment Analysis in Social Media Data. , 2019, , .		50
8	Model Predictive Control for Real-Time Irrigation Scheduling. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 299-304.	0.4	39
9	Energy efficient cluster formation in wireless sensor networks. , 0, , .		37
10	Multiple Model Predictive Flood Control in Regulated River Systems with Uncertain Inflows. Water Resources Management, 2013, 27, 765-790.	1.9	37
11	Reduced growth of soybean seedlings after exposure to weak microwave radiation from GSM 900 mobile phone and base station. Bioelectromagnetics, 2015, 36, 87-95.	0.9	34
12	Best optimizer selection for predicting bushfire occurrences using deep learning. Natural Hazards, 2020, 103, 845-860.	1.6	34
13	Signal-based evaluation of handoff algorithms. IEEE Communications Letters, 2005, 9, 790-792.	2.5	33
14	Internet of Things and autonomous control for vertical cultivation walls towards smart food growing: A review. Urban Forestry and Urban Greening, 2021, 61, 127094.	2.3	32
15	Review: Weak radiofrequency radiation exposure from mobile phone radiation on plants. Electromagnetic Biology and Medicine, 2017, 36, 213-235.	0.7	31
16	Characterization of Extremely Low Frequency Magnetic Fields from Diesel, Gasoline and Hybrid Cars under Controlled Conditions. International Journal of Environmental Research and Public Health, 2015, 12, 1651-1666.	1.2	26
17	Big-data NoSQL databases: A comparison and analysis of â€œBig-Tableâ€“, â€œDynamoDBâ€“, and â€œCassandraâ€“, 2017, , .		26
18	Universal serial bus based software attacks and protection solutions. Digital Investigation, 2011, 7, 172-184.	3.2	25

#	ARTICLE	IF	CITATIONS
19	A Comparative Study of Classification Algorithms using Data Mining: Crime and Accidents in Denver City the USA. International Journal of Advanced Computer Science and Applications, 2016, 7, .	0.5	25
20	Root zone soil moisture prediction models based on system identification: Formulation of the theory and validation using field and AQUACROP data. Agricultural Water Management, 2016, 163, 344-353.	2.4	24
21	An ab-initio Computational Method to Determine Dielectric Properties of Biological Materials. Scientific Reports, 2013, 3, 1796.	1.6	23
22	A meta-analysis of in vitro exposures to weak radiofrequency radiation exposure from mobile phones (1990â€“2015). Environmental Research, 2020, 184, 109227.	3.7	23
23	Pineal melatonin level disruption in humans due to electromagnetic fields and ICNIRP limits. Radiation Protection Dosimetry, 2013, 154, 405-416.	0.4	22
24	Behavior of Charged Particles in a Biological Cell Exposed to AC-DC Electromagnetic Fields. Environmental Engineering Science, 2011, 28, 1-10.	0.8	21
25	Internet of Things in the Healthcare Sector: Overview of Security and Privacy Issues. , 2019, , 153-179.		21
26	Review: Big Data Techniques of Google, Amazon, Facebook and Twitter. Journal of Communications, 2018, , 94-100.	1.3	21
27	Threat analysis of portable hack tools from USB storage devices and protection solutions. , 2010, , .		19
28	A novel generic optimization method for irrigation scheduling under multiple objectives and multiple hierarchical layers in a canal network. Advances in Water Resources, 2017, 105, 188-204.	1.7	19
29	Robust Ensemble Machine Learning Model for Filtering Phishing URLs: Expandable Random Gradient Stacked Voting Classifier (ERG-SVC). IEEE Access, 2021, 9, 150142-150161.	2.6	17
30	Review: Security and Privacy Issues of Fog Computing for the Internet of Things (IoT). Lecture Notes on Data Engineering and Communications Technologies, 2018, , 139-174.	0.5	16
31	Comparison Between Two Models for Interactions Between Electric and Magnetic Fields and Proteins in Cell Membranes. Environmental Engineering Science, 2009, 26, 1473-1480.	0.8	15
32	Optimization framework for Best Approver Selection Method (BASM) and Best Tip Selection Method (BTSM) for IOTA tangle network: Blockchain-enabled next generation Industrial IoT. Computer Networks, 2021, 199, 108418.	3.2	15
33	Performance Analysis of On-Chip Coplanar Waveguide for In Vivo Dielectric Analysis. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 641-647.	2.4	14
34	An Analysis on Use of Deep Learning and Lexical-Semantic Based Sentiment Analysis Method on Twitter Data to Understand the Demographic Trend of Telemedicine. , 2019, , .		14
35	Probability Distribution Model to Analyze the Trade-off between Scalability and Security of Sharding-Based Blockchain Networks. , 2021, , .		14
36	An Analysis of Demographic and Behavior Trends Using Social Media: Facebook, Twitter, and Instagram. , 2019, , 87-108.		13

#	ARTICLE	IF	CITATIONS
37	High Powered Cluster Heads for Extending Sensor Network Lifetime. , 2006, , .		12
38	Experiences of Deploying an Indoor Building Sensor Network. , 2009, , .		11
39	Intelligent Sensing in Dynamic Environments Using Markov Decision Process. Sensors, 2011, 11, 1229-1242.	2.1	11
40	Radio Hazard Safety Assessment for Marine Ship Transmitters: Measurements Using a New Data Collection Method and Comparison with ICNIRP and ARPANSA Limits. International Journal of Environmental Research and Public Health, 2015, 12, 5338-5354.	1.2	11
41	Review: An evaluation of major threats in cloud computing associated with big data. , 2017, , .		11
42	Centralised Strategies for Cluster Formation in Sensor Networks. Studies in Computational Intelligence, 0, , 315-331.	0.7	10
43	Internet of Things in healthcare: Smart devices, sensors, and systems related to diseases and health conditions. , 2020, , 1-35.		10
44	Using Blockchain for Online Multimedia Management: Characteristics of Existing Platforms. Progress in IS, 2020, , 289-303.	0.5	10
45	A Review on Security and Privacy Challenges of Big Data. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 175-200.	0.5	9
46	Lightweight Blockchain Framework using Enhanced Master-Slave Blockchain Paradigm: Fair Rewarding Mechanism using Reward Accuracy Model. Information Processing and Management, 2021, 58, 102523.	5.4	9
47	Pentaho and Jaspersoft: A Comparative Study of Business Intelligence Open Source Tools Processing Big Data to Evaluate Performances. International Journal of Advanced Computer Science and Applications, 2016, 7, .	0.5	9
48	A call quality performance measure for handoff algorithms. International Journal of Communication Systems, 2011, 24, 363-383.	1.6	8
49	A Geographic Primitive-Based Bayesian Framework to Predict Cyclone-Induced Flooding*. Journal of Hydrometeorology, 2013, 14, 505-523.	0.7	8
50	Dielectric properties of liquid phase molecular clusters using the external field method: molecular dynamics study. Physical Chemistry Chemical Physics, 2014, 16, 13943-13947.	1.3	8
51	Improving accuracy of elephant localization using sound probes. Applied Acoustics, 2018, 129, 92-103.	1.7	8
52	Lessons learned from the application of machine learning to studies on plant response to radio-frequency. Environmental Research, 2019, 178, 108634.	3.7	8
53	Internet of Things in Healthcare: A Survey of Telemedicine Systems Used for Elderly People. Studies in Computational Intelligence, 2021, , 69-88.	0.7	8
54	Fair rewarding mechanism in music industry using smart contracts on public-permissionless blockchain. Multimedia Tools and Applications, 2022, 81, 1523-1544.	2.6	8

#	ARTICLE	IF	CITATIONS
55	Efficient Battery Management for Sensor Lifetime. , 2007, , .		7
56	Prediction of high-risk areas in wildland fires. , 2010, , .		7
57	Propagation constraints in elephant localization using an acoustic sensor network. , 2012, , .		7
58	Comparison of corrected calibration independent transmission coefficient method to estimate complex permittivity. Sensors and Actuators A: Physical, 2013, 189, 466-473.	2.0	7
59	Supervised Machine Learning Algorithms for Bioelectromagnetics: Prediction Models and Feature Selection Techniques Using Data from Weak Radiofrequency Radiation Effect on Human and Animals Cells. International Journal of Environmental Research and Public Health, 2020, 17, 4595.	1.2	7
60	Trust Model to Minimize the Influence of Malicious Attacks in Sharding Based Blockchain Networks. , 2020, , .		7
61	The Much Needed Security and Data Reforms of Cloud Computing in Medical Data Storage. Advances in Bioinformatics and Biomedical Engineering Book Series, 2018, , 99-113.	0.2	7
62	Critical time delay of the pineal melatonin rhythm in humans due to weak electromagnetic exposure. Indian Journal of Biochemistry and Biophysics, 2013, 50, 259-65.	0.2	7
63	The signal propagation effects on IEEE 802.15.4 radio link in fire environment. , 2010, , .		6
64	Classification Performance Analysis in Medical Science. , 2017, , .		6
65	A Comparative Study in the Application of IoT in Health Care: Data Security in Telemedicine. , 2019, , 181-202.		6
66	Smart Transportation Tracking Systems Based on the Internet of Things Vision. , 2020, , 143-166.		6
67	Latency Estimation of Blockchain-Based Distributed Access Control for Cyber Infrastructure in the IoT Environment. , 2021, , .		5
68	New Era in the Supply Chain Management With Blockchain. Advances in Logistics, Operations, and Management Science Book Series, 2019, , 1-37.	0.3	5
69	Handoff Optimization Using Hidden Markov Model. IEEE Signal Processing Letters, 2011, 18, 411-414.	2.1	4
70	ENERGY OPTIMIZED WIRELESS SENSOR NETWORK FOR MONITORING INSIDE BUILDINGS: THEORETICAL MODEL AND EXPERIMENTAL ANALYSIS. Progress in Electromagnetics Research M, 2014, 37, 11-20.	0.5	4
71	MFPT calculation for random walks in inhomogeneous networks. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 986-1002.	1.2	4
72	Measurement and analysis of power-frequency magnetic fields in residences: Results from a pilot study. Measurement: Journal of the International Measurement Confederation, 2018, 125, 415-424.	2.5	4

#	ARTICLE	IF	CITATIONS
73	Twitter Sentiment Data Analysis of User Behavior on Cryptocurrencies. Advances in Social Networking and Online Communities Book Series, 2021, , 277-291.	0.3	4
74	Ventilation Efficiency and Carbon Dioxide (CO2) Concentration. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2009, 5, 637-640.	0.4	4
75	Cloud Computing Security Issues of Sensitive Data. Advances in Wireless Technologies and Telecommunication Book Series, 2019, , 60-84.	0.3	4
76	Reply to Comment on "Behavior of Charged Particles in a Biological Cell Exposed to AC-DC Electromagnetic Fields" and on "Comparison Between Two Models of Interaction Between Electric and Magnetic Fields and Proteins in Cell Membranes". Environmental Engineering Science, 2011, 28, 753-754.	0.8	3
77	On the Utility of Dielectric Spectroscopy Techniques to Identify Compounds and Estimate Concentrations of Binary Mixtures. IEEE Sensors Journal, 2014, 14, 538-546.	2.4	3
78	OPTIMIZING HEATING EFFICIENCY OF HYPERTHERMIA: SPECIFIC LOSS POWER OF MAGNETIC SPHERE COMPOSED OF SUPERPARAMAGNETIC NANOPARTICLES. Progress in Electromagnetics Research B, 2020, 87, 1-17.	0.7	3
79	Digital Health or Internet of Things in Tele-Health: A Survey of Security Issues, Security Attacks, Sensors, Algorithms, Data Storage, Implementation Platforms, and Frameworks. Studies in Computational Intelligence, 2021, , 263-292.	0.7	3
80	Computer virus and protection methods using lab analysis. , 2017, , .		2
81	Fair Rewarding Mechanism for Sharding-based Blockchain Networks with Low-powered Devices in the Internet of Things. , 2021, , .		2
82	A Review on Cyberattacks. Advances in Computer and Electrical Engineering Book Series, 2019, , 183-219.	0.2	2
83	Critical Issues in the Invasion of the Internet of Things (IoT). Advances in Data Mining and Database Management Book Series, 2019, , 174-196.	0.4	2
84	Distinguish Significant Adoption Factors That Influence Users' Behavioral Expectation to Utilize Mobile Payment. Advances in Marketing, Customer Relationship Management, and E-services Book Series, 2019, , 148-168.	0.7	2
85	Machine Learning for Bioelectromagnetics: Prediction Model using Data of Weak Radiofrequency Radiation Effect on Plants. International Journal of Advanced Computer Science and Applications, 2017, 8, .	0.5	2
86	A Review on Cyberattacks. , 2020, , 98-126.		2
87	Evaluation of handoff algorithms using a call quality measure with signal based penalties. , 2006, , .		1
88	Analysis of biological effects and limits of exposure to weak magnetic fields. , 2010, , .		1
89	A computationally efficient framework for stochastic prediction of flood propagation. , 2012, , .		1
90	Editorial Note: Empirical Multimedia Service and its Applications for IoT. Multimedia Tools and Applications, 2017, 76, 17613-17613.	2.6	1

#	ARTICLE	IF	CITATIONS
91	Performance Evaluation of Big Data and Business Intelligence Open Source Tools: Pentaho and Jaspersoft. <i>Studies in Big Data</i> , 2018, , 147-176.	0.8	1
92	Predicting the mean first passage time (MFPT) to reach any state for a passive dynamic walker with steady state variability. <i>PLoS ONE</i> , 2018, 13, e0207665.	1.1	1
93	Review: Data Security Models Developed by Blockchain Technology for Different Business Domains. , 2019, , .		1
94	Forecasting Trading-Time based Profit-Making Strategies in Forex Industry: Using Australian Forex Data. , 2019, , .		1
95	Cloud Computing Security Issues of Sensitive Data. , 2021, , 1642-1667.		1
96	Critical Issues in the Invasion of the Internet of Things (IoT). , 2021, , 1672-1694.		1
97	Machine Learning and Internet of Things for Smart Living: A Comprehensive Review and Analysis. <i>Studies in Fuzziness and Soft Computing</i> , 2021, , 155-177.	0.6	1
98	Real-Time Cryptocurrency Price Prediction by Exploiting IoT Concept and Beyond: Cloud Computing, Data Parallelism and Deep Learning. <i>International Journal of Advanced Computer Science and Applications</i> , 2020, 11, .	0.5	1
99	Design factors for sustainable sensor networks. , 2007, , .		0
100	Technical program committee (TPC). , 2014, , .		0
101	Computation Time Optimization on Hashtag Segmentation for Social Media Data. , 2021, , .		0
102	New Era in the Supply Chain Management With Blockchain. , 2021, , 1770-1794.		0
103	Blockchain and Cryptocurrencies. <i>Advances in Data Mining and Database Management Book Series</i> , 2021, , 132-159.	0.4	0
104	Analysis of Biological Effect of AC-DC Electromagnetic Fields using the Lorenz Model. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , 2011, , 31-53.	0.2	0
105	Background Guide to Random Walk Analysis. <i>Springer Natural Hazards</i> , 2016, , 11-28.	0.1	0
106	Review on Analysis of the Application Areas and Algorithms used in Data Wrangling in Big Data. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , 2018, , 337-353.	0.5	0
107	The Much Needed Security and Data Reforms of Cloud Computing in Medical Data Storage. , 2019, , 2120-2133.		0
108	A Centralized Real-Time E-Healthcare System for Remote Detection and Prediction of Epileptic Seizures. <i>Advances in Healthcare Information Systems and Administration Book Series</i> , 0, , 402-433.	0.2	0

#	ARTICLE	IF	CITATIONS
109	IAQ Assessment for Smart Environments: Conclusion and Future Scope. Ambient Intelligence and Smart Environments, 2022, , .	0.2	0