

# 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	Fair rewarding mechanism in music industry using smart contracts on public-permissionless blockchain. <i>Multimedia Tools and Applications</i> , 2022, 81, 1523-1544.	2.6	8
2	IAQ Assessment for Smart Environments: Conclusion and Future Scope. <i>Ambient Intelligence and Smart Environments</i> , 2022, , .	0.2	0
3	Digital Health or Internet of Things in Tele-Health: A Survey of Security Issues, Security Attacks, Sensors, Algorithms, Data Storage, Implementation Platforms, and Frameworks. <i>Studies in Computational Intelligence</i> , 2021, , 263-292.	0.7	3
4	Twitter Sentiment Data Analysis of User Behavior on Cryptocurrencies. <i>Advances in Social Networking and Online Communities Book Series</i> , 2021, , 277-291.	0.3	4
5	Computation Time Optimization on Hashtag Segmentation for Social Media Data. , 2021, , .		0
6	Lightweight Blockchain Framework using Enhanced Master-Slave Blockchain Paradigm: Fair Rewarding Mechanism using Reward Accuracy Model. <i>Information Processing and Management</i> , 2021, 58, 102523.	5.4	9
7	Internet of Things and autonomous control for vertical cultivation walls towards smart food growing: A review. <i>Urban Forestry and Urban Greening</i> , 2021, 61, 127094.	2.3	32
8	Fair Rewarding Mechanism for Sharding-based Blockchain Networks with Low-powered Devices in the Internet of Things. , 2021, , .		2
9	Latency Estimation of Blockchain-Based Distributed Access Control for Cyber Infrastructure in the IoT Environment. , 2021, , .		5
10	Optimization framework for Best Approver Selection Method (BASM) and Best Tip Selection Method (BTSM) for IOTA tangle network: Blockchain-enabled next generation Industrial IoT. <i>Computer Networks</i> , 2021, 199, 108418.	3.2	15
11	Cloud Computing Security Issues of Sensitive Data. , 2021, , 1642-1667.		1
12	New Era in the Supply Chain Management With Blockchain. , 2021, , 1770-1794.		0
13	Critical Issues in the Invasion of the Internet of Things (IoT). , 2021, , 1672-1694.		1
14	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
15	Internet of Things in Healthcare: A Survey of Telemedicine Systems Used for Elderly People. <i>Studies in Computational Intelligence</i> , 2021, , 69-88.	0.7	8
16	Blockchain and Cryptocurrencies. <i>Advances in Data Mining and Database Management Book Series</i> , 2021, , 132-159.	0.4	0
17	Probability Distribution Model to Analyze the Trade-off between Scalability and Security of Sharding-Based Blockchain Networks. , 2021, , .		14
18	Robust Ensemble Machine Learning Model for Filtering Phishing URLs: Expandable Random Gradient Stacked Voting Classifier (ERG-SVC). <i>IEEE Access</i> , 2021, 9, 150142-150161.	2.6	17

#	ARTICLE	IF	CITATIONS
19	Internet of Things in healthcare: Smart devices, sensors, and systems related to diseases and health conditions. , 2020, , 1-35.		10
20	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
21	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
22	Best optimizer selection for predicting bushfire occurrences using deep learning. Natural Hazards, 2020, 103, 845-860.	1.6	34
23	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
24	Using Blockchain for Online Multimedia Management: Characteristics of Existing Platforms. Progress in IS, 2020, , 289-303.	0.5	10
25	Trust Model to Minimize the Influence of Malicious Attacks in Sharding Based Blockchain Networks. , 2020, , .		7
26	Real-Time Cryptocurrency Price Prediction by Exploiting IoT Concept and Beyond: Cloud Computing, Data Parallelism and Deep Learning. International Journal of Advanced Computer Science and Applications, 2020, 11, .	0.5	1
27	Smart Transportation Tracking Systems Based on the Internet of Things Vision. , 2020, , 143-166.		6
28	A Review on Cyberattacks. , 2020, , 98-126.		2
29	Lessons learned from the application of machine learning to studies on plant response to radio-frequency. Environmental Research, 2019, 178, 108634.	3.7	8
30	Internet of Things in the Healthcare Sector: Overview of Security and Privacy Issues. , 2019, , 153-179.		21
31	A Comparative Study in the Application of IoT in Health Care: Data Security in Telemedicine. , 2019, , 181-202.		6
32	An Analysis of Demographic and Behavior Trends Using Social Media: Facebook, Twitter, and Instagram. , 2019, , 87-108.		13
33	Review: Data Security Models Developed by Blockchain Technology for Different Business Domains. , 2019, , .		1
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	Effective Text Data Preprocessing Technique for Sentiment Analysis in Social Media Data. , 2019, , .		50
36	Forecasting Trading-Time based Profit-Making Strategies in Forex Industry: Using Australian Forex Data. , 2019, , .		1

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37	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
38	A Review on Cyberattacks. Advances in Computer and Electrical Engineering Book Series, 2019, , 183-219.	0.2	2
39	Cloud Computing Security Issues of Sensitive Data. Advances in Wireless Technologies and Telecommunication Book Series, 2019, , 60-84.	0.3	4
40	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
41	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
42	New Era in the Supply Chain Management With Blockchain. Advances in Logistics, Operations, and Management Science Book Series, 2019, , 1-37.	0.3	5
43	The Much Needed Security and Data Reforms of Cloud Computing in Medical Data Storage. , 2019, , 2120-2133.		0
44	A Review on Security and Privacy Challenges of Big Data. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 175-200.	0.5	9
45	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
46	Improving accuracy of elephant localization using sound probes. Applied Acoustics, 2018, 129, 92-103.	1.7	8
47	Performance Evaluation of Big Data and Business Intelligence Open Source Tools: Pentaho and Jaspersoft. Studies in Big Data, 2018, , 147-176.	0.8	1
48	Predicting the mean first passage time (MFPT) to reach any state for a passive dynamic walker with steady state variability. PLoS ONE, 2018, 13, e0207665.	1.1	1
49	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
50	Review: Big Data Techniques of Google, Amazon, Facebook and Twitter. Journal of Communications, 2018, , 94-100.	1.3	21
51	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
52	Review on Analysis of the Application Areas and Algorithms used in Data Wrangling in Big Data. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 337-353.	0.5	0
53	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
54	The use and analysis of anti-plagiarism software: Turnitin tool for formative assessment and feedback. Computer Applications in Engineering Education, 2017, 25, 895-909.	2.2	58

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55	Analysis of large flood events: Based on flood data during 1985–2016 in Australia and India. International Journal of Disaster Risk Reduction, 2017, 24, 1-11.	1.8	61
56	Review: An evaluation of major threats in cloud computing associated with big data. , 2017, , .		11
57	Editorial Note: Empirical Multimedia Service and its Applications for IoT. Multimedia Tools and Applications, 2017, 76, 17613-17613.	2.6	1
58	Classification Performance Analysis in Medical Science. , 2017, , .		6
59	Review: Weak radiofrequency radiation exposure from mobile phone radiation on plants. Electromagnetic Biology and Medicine, 2017, 36, 213-235.	0.7	31
60	Computer virus and protection methods using lab analysis. , 2017, , .		2
61	Big-data NoSQL databases: A comparison and analysis of ‘‘Big-Table’’, ‘‘DynamoDB’’, and ‘‘Cassandra’’, 2017, , .		26
62	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
63	MFPT calculation for random walks in inhomogeneous networks. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 986-1002.	1.2	4
64	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
65	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
66	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
67	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
68	Background Guide to Random Walk Analysis. Springer Natural Hazards, 2016, , 11-28.	0.1	0
69	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
70	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
71	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
72	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

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73	Dielectric properties of liquid phase molecular clusters using the external field method: molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13943-13947.	1.3	8
74	On the Utility of Dielectric Spectroscopy Techniques to Identify Compounds and Estimate Concentrations of Binary Mixtures. <i>IEEE Sensors Journal</i> , 2014, 14, 538-546.	2.4	3
75	Technical program committee (TPC). , 2014, , .		0
76	Performance Analysis of On-Chip Coplanar Waveguide for In Vivo Dielectric Analysis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013, 62, 641-647.	2.4	14
77	An ab-initio Computational Method to Determine Dielectric Properties of Biological Materials. <i>Scientific Reports</i> , 2013, 3, 1796.	1.6	23
78	Multiple Model Predictive Flood Control in Regulated River Systems with Uncertain Inflows. <i>Water Resources Management</i> , 2013, 27, 765-790.	1.9	37
79	Comparison of corrected calibration independent transmission coefficient method to estimate complex permittivity. <i>Sensors and Actuators A: Physical</i> , 2013, 189, 466-473.	2.0	7
80	Pineal melatonin level disruption in humans due to electromagnetic fields and ICNIRP limits. <i>Radiation Protection Dosimetry</i> , 2013, 154, 405-416.	0.4	22
81	A Geographic Primitive-Based Bayesian Framework to Predict Cyclone-Induced Flooding*. <i>Journal of Hydrometeorology</i> , 2013, 14, 505-523.	0.7	8
82	Model Predictive Control for Real-Time Irrigation Scheduling. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 299-304.	0.4	39
83	Critical time delay of the pineal melatonin rhythm in humans due to weak electromagnetic exposure. <i>Indian Journal of Biochemistry and Biophysics</i> , 2013, 50, 259-65.	0.2	7
84	A computationally efficient framework for stochastic prediction of flood propagation. , 2012, , .		1
85	Propagation constraints in elephant localization using an acoustic sensor network. , 2012, , .		7
86	A call quality performance measure for handoff algorithms. <i>International Journal of Communication Systems</i> , 2011, 24, 363-383.	1.6	8
87	Universal serial bus based software attacks and protection solutions. <i>Digital Investigation</i> , 2011, 7, 172-184.	3.2	25
88	Handoff Optimization Using Hidden Markov Model. <i>IEEE Signal Processing Letters</i> , 2011, 18, 411-414.	2.1	4
89	Behavior of Charged Particles in a Biological Cell Exposed to AC-DC Electromagnetic Fields. <i>Environmental Engineering Science</i> , 2011, 28, 1-10.	0.8	21
90	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". <i>Environmental Engineering Science</i> , 2011, 28, 753-754.	0.8	3

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91	Intelligent Sensing in Dynamic Environments Using Markov Decision Process. Sensors, 2011, 11, 1229-1242.	2.1	11
92	Analysis of Biological Effect of AC-DC Electromagnetic Fields using the Lorenz Model. Advances in Bioinformatics and Biomedical Engineering Book Series, 2011, , 31-53.	0.2	0
93	Measurement and analysis of electromagnetic fields from trams, trains and hybrid cars. Radiation Protection Dosimetry, 2010, 141, 255-268.	0.4	53
94	Analysis of biological effects and limits of exposure to weak magnetic fields. , 2010, , .		1
95	The signal propagation effects on IEEE 802.15.4 radio link in fire environment. , 2010, , .		6
96	Prediction of high-risk areas in wildland fires. , 2010, , .		7
97	Threat analysis of portable hack tools from USB storage devices and protection solutions. , 2010, , .		19
98	AN ESTIMATION OF SENSOR ENERGY CONSUMPTION. Progress in Electromagnetics Research B, 2009, 12, 259-295.	0.7	162
99	Experiences of Deploying an Indoor Building Sensor Network. , 2009, , .		11
100	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
101	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
102	Efficient Battery Management for Sensor Lifetime. , 2007, , .		7
103	Design factors for sustainable sensor networks. , 2007, , .		0
104	High Powered Cluster Heads for Extending Sensor Network Lifetime. , 2006, , .		12
105	Evaluation of handoff algorithms using a call quality measure with signal based penalties. , 2006, , .		1
106	Signal-based evaluation of handoff algorithms. IEEE Communications Letters, 2005, 9, 790-792.	2.5	33
107	Energy efficient cluster formation in wireless sensor networks. , 0, , .		37
108	Centralised Strategies for Cluster Formation in Sensor Networks. Studies in Computational Intelligence, 0, , 315-331.	0.7	10

#	ARTICLE	IF	CITATIONS
109	A Centralized Real-Time E-Healthcare System for Remote Detection and Prediction of Epileptic Seizures. Advances in Healthcare Information Systems and Administration Book Series, 0, , 402-433.	0.2	0