

Muthoni Masinde

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

426
citations

1039880

9
h-index

887953

17
g-index

55
all docs

55
docs citations

55
times ranked

301
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling research productivity of university researchers using research incentives to crowd-in motivation. <i>International Journal of Productivity and Performance Management</i> , 2023, 72, 1509-1530.	2.2	2
2	The surveillance and prediction of food contamination using intelligent systems: a bibliometric analysis. <i>British Food Journal</i> , 2022, 124, 1149-1169.	1.6	8
3	Prediction Model for Malaria: An Ensemble of Machine Learning and Hydrological Drought Indices. <i>Lecture Notes in Networks and Systems</i> , 2022, , 569-584.	0.5	0
4	A Critical Review of IoT-Connected Healthcare and Information Security in South Africa. <i>Lecture Notes in Networks and Systems</i> , 2022, , 739-746.	0.5	1
5	Predicting Infectious Diseases: A Bibliometric Review on Africa. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 1893.	1.2	14
6	Mkulima Platform: An Inclusive Business Platform Ecosystem that Integrates African Small-Scale Farmers into Agricultural Value Chain. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2022, , 397-419.	0.2	1
7	Assessment of the Dissimilarities of EDI and SPI Measures for Drought Determination in South Africa. <i>Water (Switzerland)</i> , 2021, 13, 82.	1.2	9
8	A Review of the Waterâ€“Energyâ€“Food Nexus Research in Africa. <i>Sustainability</i> , 2021, 13, 1762.	1.6	37
9	Chemical Contamination Pathways and the Food Safety Implications along the Various Stages of Food Production: A Review. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5795.	1.2	51
10	A Survey of Intelligent Agro-climate Decision Support Tool for Small-Scale Farmers: An Integration of Indigenous Knowledge, Mobile Phone Technology and Smart Sensors. <i>Lecture Notes in Networks and Systems</i> , 2021, , 715-730.	0.5	2
11	An Analysis of Precipitation Extreme Events Based on the SPI and EDI Values in the Free State Province, South Africa. <i>Water (Switzerland)</i> , 2021, 13, 3058.	1.2	6
12	Bibliometric Analysis of Methods and Tools for Drought Monitoring and Prediction in Africa. <i>Sustainability</i> , 2020, 12, 6516.	1.6	20
13	A Distributed Stream Processing Middleware Framework for Real-Time Analysis of Heterogeneous Data on Big Data Platform: Case of Environmental Monitoring. <i>Sensors</i> , 2020, 20, 3166.	2.1	17
14	Africa's Malaria Epidemic Predictor. , 2020, , .		6
15	TRANSFORMING SOUTH AFRICAâ€™S UNIVERSITIES OF TECHNOLOGY: A ROADMAP THROUGH 4IR LENSES. <i>Journal of Construction Project Management and Innovation</i> , 2020, 10, .	0.5	1
16	Integration of Indigenous Knowledge, Climate Data, Satellite Imagery and Machine Learning to Optimize Cropping Decisions by Small-Scale Farmers. a Case Study of uMgungundlovu District Municipality, South Africa. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2020, , 3-19.	0.2	3
17	Mitigating the Impacts of Environmental Pollution in Lejweleputswa District Through Integration of Local and Scientific Knowledge. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2020, , 77-88.	0.2	1
18	The Critical Success Factors for e-Government Implementation in South Africaâ€™s Local government: Factoring in Apartheid Digital Divide. , 2019, , .		7

#	ARTICLE	IF	CITATIONS
19	ITIKI Plus: A Mobile Based Application for Integrating Indigenous Knowledge and Scientific Agro-Climate Decision Support for Africa's Small-Scale Farmers. , 2019, , .		4
20	Analysis of Drought Progression Physiognomies in South Africa. Water (Switzerland), 2019, 11, 299.	1.2	9
21	Internet of Things Research & Development: What Will Work for Africa?. , 2019, , .		2
22	UmobiTalk: Ubiquitous Mobile Speech Based Translator for Sesotho Language. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 93-106.	0.2	0
23	A Middleware for Cyber Physical Systems in an Internet of Things Environment: Case of for Mobile Asset Tracking. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 18-31.	0.2	0
24	Internet of Things-Based Framework for Public Transportation Fleet Management in Non-smart City. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 3-17.	0.2	0
25	Asymptotic Analysis of A Fuzzy Based Intrusion Detection System For Zigbee. , 2018, , .		1
26	Towards the Development of a Rule-Based Drought Early Warning Expert Systems Using Indigenous Knowledge. , 2018, , .		11
27	Downscaling Africa's Drought Forecasts through Integration of Indigenous and Scientific Drought Forecasts Using Fuzzy Cognitive Maps. Geosciences (Switzerland), 2018, 8, 135.	1.0	13
28	Making software humane. , 2017, , .		2
29	Cloud SAMS: Cloud computing solution for public schools within South Africa's "second economy". , 2016, , .		1
30	A security algorithm for wireless sensor networks in the Internet of Things paradigm. , 2016, , .		0
31	Ubiquitous traffic management with fuzzy logic " Case study of Maseru, Lesotho. , 2016, , .		1
32	Development of adaptive environmental management system: A participatory approach through fuzzy cognitive maps. , 2016, , .		1
33	Possible Challenges of Integrating ICTs into the Public Transportation System in the Free State Province, South Africa. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 66-69.	0.2	0
34	A Framework for Accurate Drought Forecasting System Using Semantics-Based Data Integration Middleware. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 106-110.	0.2	2
35	A Calibration Report for Wireless Sensor-Based Weatherboards. Journal of Sensor and Actuator Networks, 2015, 4, 30-49.	2.3	4
36	Towards Semantic Integration of Heterogeneous Sensor Data with Indigenous Knowledge for Drought Forecasting. , 2015, , .		8

#	ARTICLE	IF	CITATIONS
37	MAS-DEWS: A multi-agent system for predicting Africa's drought. , 2015, , .		2
38	An innovative drought early warning system for sub-Saharan Africa: integrating modern and indigenous approaches. African Journal of Science, Technology, Innovation and Development, 2015, 7, 8-25.	0.8	36
39	A hardware based model for an asset monitoring and tracking system: Case of laptops. , 2015, , .		2
40	Implementation of middleware for Internet of Things in asset tracking applications: In-lining approach. , 2015, , .		6
41	An Effective Drought Early Warning System for Sub-Saharan Africa. , 2014, , .		11
42	An assessment of field readiness for wireless sensor based weatherboards " A calibration report. , 2014, , .		2
43	IoT applications that work for the African continent: Innovation or adoption?. , 2014, , .		14
44	Artificial neural networks models for predicting effective drought index: Factoring effects of rainfall variability. Mitigation and Adaptation Strategies for Global Change, 2014, 19, 1139-1162.	1.0	30
45	Comparison of Nearest Neighbor (ibk), Regression by Discretization and Isotonic Regression Classification Algorithms for Precipitation Classes Prediction. International Journal of Computer Applications, 2014, 96, 44-48.	0.2	7
46	Survivability to sustainability of biodiversity. , 2013, , .		4
47	Survey on DNS configurations, interdependencies, resilience and security for *.ke domains. , 2012, , .		1
48	The role of ICTs in downscaling and up-scaling integrated weather forecasts for farmers in sub-Saharan Africa. , 2012, , .		15
49	Extending the Power of Mobile Phone Using Service Oriented Computing. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 34-44.	0.2	0
50	ITIKI: bridge between African indigenous knowledge and modern science of drought prediction. Knowledge Management for Development Journal, 2011, 7, 274-290.	0.4	34
51	A framework for predicting droughts in developing countries using sensor networks and mobile phones. , 2010, , .		12
52	MobiGrid: A middleware for integrating mobile phone and grid computing. , 2010, , .		5
53	Message from the Conference Chair. IEEE Transactions on Magnetics, 2007, 43, 592-592.	1.2	0