Joseph Isabona

List of Publications by Year
in descending order

25 papers	234 citations	1040056 9 h-index	1058476 14 g-index
25 all docs	25 docs citations	25 times ranked	70 citing authors

#	Article	IF	Citations
1	Machine Learning-Based Boosted Regression Ensemble Combined with Hyperparameter Tuning for Optimal Adaptive Learning. Sensors, 2022, 22, 3776.	3.8	39
2	Development of a Multilayer Perceptron Neural Network for Optimal Predictive Modeling in Urban Microcellular Radio Environments. Applied Sciences (Switzerland), 2022, 12, 5713.	2.5	24
3	Hybrid neural network approach for predicting signal propagation loss in urban microcells. , 2016, , .		19
4	Atmospheric Propagation Modelling for Terrestrial Radio Frequency Communication Links in a Tropical Wet and Dry Savanna Climate. Information (Switzerland), 2022, 13, 141.	2.9	19
5	Environment-Adaptation Based Hybrid Neural Network Predictor for Signal Propagation Loss Prediction in Cluttered and Open Urban Microcells. Wireless Personal Communications, 2019, 104, 935-948.	2.7	17
6	Downlink Massive MIMO Systems: Achievable Sum Rates and Energy Efficiency Perspective for Future 5G Systems. Wireless Personal Communications, 2017, 96, 2779-2796.	2.7	15
7	Updating analysis of key performance indicators of 4G LTE network with the prediction of missing values of critical network parameters based on experimental data from a dense urban environment. Data in Brief, 2022, 42, 108240.	1.0	14
8	Coverage and Link Quality Trends in Suburban Mobile Broadband HSPA Network Environments. Wireless Personal Communications, 2017, 95, 3955-3968.	2.7	13
9	Terrain-based adaption of propagation model loss parameters using non-linear square regression. Journal of Engineering and Applied Science, 2021, 68, .	2.0	13
10	IMPROVED ADAPTIVE SIGNAL POWER LOSS PREDICTION USING COMBINED VECTOR STATISTICS BASED SMOOTHING AND NEURAL NETWORK APPROACH. Progress in Electromagnetics Research C, 2018, 82, 155-169.	0.9	12
11	Wavelet Generalized Regression Neural Network Approach for Robust Field Strength Prediction. Wireless Personal Communications, 2020, 114, 3635-3653.	2.7	8
12	Realistic Prognostic Modeling of Specific Attenuation due to Rain at Microwave Frequency for Tropical Climate Region. Wireless Communications and Mobile Computing, 2022, 2022, 1-10.	1.2	7
13	Adaptation of Propagation Model Parameters toward Efficient Cellular Network Planning using Robust LAD Algorithm. International Journal of Wireless and Microwave Technologies, 2020, 10, 13-24.	1.0	6
14	Joint Statistical and Machine Learning Approach for Practical Data-Driven Assessment of User Throughput Quality in Microcellular Radio Networks. Wireless Personal Communications, 2021, 119, 1661.	2.7	5
15	Experimental Assessment of Specific Absorption Rate Using Measured Electric Field Strength in Benson Idahosa University and Environs. American Journal of Modern Physics, 2015, 4, 92.	0.1	5
16	Large-scale Signal Attenuation and Shadow Fading Measurement and Modelling for Efficient Wireless Network Design and Management. , 2022, , .		5
17	Investigating Predictive Capabilities of RBFNN, MLPNN and GRNN Models for LTE Cellular Network Radio Signal Power Datasets. FUOYE Journal of Engineering and Technology, 2019, 4, .	0.2	4
18	Signal power loss prediction based on artificial neural networks in microcell environment. , 2017, , .		3

#	Article	IF	Citations
19	Field Electromagnetic Strength Variability Measurement and Adaptive Prognostic Approximation with Weighed Least Regression Approach in the Ultra-high Radio Frequency Band. International Journal of Intelligent Systems and Applications, 2021, 13, 14-23.	1.1	2
20	Effect of Learning Rate on GRNN and MLP for the Prediction of Signal Power Loss in Microcell Sub-Urban Environment. International Journal on Communications Antenna and Propagation, 2019, 9, 36.	0.3	2
21	Application of Supervised Machine Learning Based on Gaussian Process Regression for Extrapolative Cell Availability Evaluation in Cellular Communication Systems. Communications in Computer and Information Science, 2021, , 130-144.	0.5	1
22	An Enhanced SINR-Based Call Admission Control in 3G Networks. International Journal of Wireless and Mobile Networks, 2011, 3, 49-64.	0.2	1
23	ENERGY-EFFICIENT COMMUNICATION IN LARGE SCALE ANTENNA SYSTEMS: IMPACT OF VARIABLE USER CAPACITY AND NUMBER OF TRANSMISSION ANTENNAS. Progress in Electromagnetics Research M, 2017, 58, 205-213.	0.9	0
24	Empirical and Statistical Determination of Optimal Distribution Model for Radio Frequency Mobile Networks Using Realistic Weekly Block Call Rates Indicator. International Journal of Mathematical Sciences and Computing, 2021, 7, 12-23.	0.7	0
25	A Practical Optimisation Method to Improve QOS and GOS-Based Key Performance Indicators in GSM Network Cell Cluster Environment. International Journal of Wireless and Mobile Networks, 2014, 6, 93-107.	0.2	0