

# Mohamed Ahmed Mohandes

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

3,575  
citations

257450

24  
h-index

214800

47  
g-index

90  
all docs

90  
docs citations

90  
times ranked

2846  
citing authors

#	ARTICLE	IF	CITATIONS
1	Support vector machines for wind speed prediction. <i>Renewable Energy</i> , 2004, 29, 939-947.	8.9	687
2	Estimation of global solar radiation using artificial neural networks. <i>Renewable Energy</i> , 1998, 14, 179-184.	8.9	310
3	Artificial neural network estimation of global solar radiation using air temperature and relative humidity. <i>Energy Policy</i> , 2008, 36, 571-576.	8.8	278
4	A neural networks approach for wind speed prediction. <i>Renewable Energy</i> , 1998, 13, 345-354.	8.9	233
5	Estimation of wind speed profile using adaptive neuro-fuzzy inference system (ANFIS). <i>Applied Energy</i> , 2011, 88, 4024-4032.	10.1	180
6	Use of radial basis functions for estimating monthly mean daily solar radiation. <i>Solar Energy</i> , 2000, 68, 161-168.	6.1	164
7	Support vector machines for short-term electrical load forecasting. <i>International Journal of Energy Research</i> , 2002, 26, 335-345.	4.5	138
8	Wind power cost assessment at twenty locations in the kingdom of Saudi Arabia. <i>Renewable Energy</i> , 2003, 28, 573-583.	8.9	130
9	Modeling global solar radiation using Particle Swarm Optimization (PSO). <i>Solar Energy</i> , 2012, 86, 3137-3145.	6.1	130
10	Arabic sign language recognition using the leap motion controller. , 2014, , .		103
11	Classifiers Combination Techniques: A Comprehensive Review. <i>IEEE Access</i> , 2018, 6, 19626-19639.	4.2	93
12	Image-Based and Sensor-Based Approaches to Arabic Sign Language Recognition. <i>IEEE Transactions on Human-Machine Systems</i> , 2014, 44, 551-557.	3.5	91
13	Artificial neural network analysis of liquid desiccant dehumidification system. <i>Energy</i> , 2011, 36, 1180-1186.	8.8	56
14	Radial basis function networks for contingency analysis of bulk power systems. <i>IEEE Transactions on Power Systems</i> , 1999, 14, 772-778.	6.5	54
15	An Intelligent Arabic Sign Language Recognition System Using a Pair of LMCs With GMM Based Classification. <i>IEEE Sensors Journal</i> , 2019, 19, 8067-8078.	4.7	46
16	A signer-independent Arabic Sign Language recognition system using face detection, geometric features, and a Hidden Markov Model. <i>Computers and Electrical Engineering</i> , 2012, 38, 422-433.	4.8	39
17	Recognition of Two-Handed Arabic Signs Using the CyberGlove. <i>Arabian Journal for Science and Engineering</i> , 2013, 38, 669-677.	1.1	36
18	Wind Speed Extrapolation Using Machine Learning Methods and LiDAR Measurements. <i>IEEE Access</i> , 2018, 6, 77634-77642.	4.2	35

#	ARTICLE	IF	CITATIONS
19	Predictions of vapor pressures of aqueous desiccants for cooling applications by using artificial neural networks. Applied Thermal Engineering, 2008, 28, 126-135.	6.0	34
20	Estimation of Diffuse Fraction of Global Solar Radiation Using Artificial Neural Networks. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2009, 31, 974-984.	2.3	34
21	Arabic Sign Language Recognition an Image-Based Approach. , 2007, , .		31
22	Vertical extrapolation of wind speed using artificial neural network hybrid system. Neural Computing and Applications, 2017, 28, 2351-2361.	5.6	31
23	Feasibility Study of Hybrid Power Systems for Remote Dwellings in Tamil Nadu, India. IEEE Access, 2020, 8, 143881-143890.	4.2	31
24	Deep Neural Networks with Extreme Learning Machine for Seismic Data Compression. Arabian Journal for Science and Engineering, 2020, 45, 1367-1377.	3.0	28
25	A Distributed Principal Component Analysis Compression for Smart Seismic Acquisition Networks. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3020-3029.	6.3	26
26	Short term wind speed estimation in Saudi Arabia. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 128, 37-53.	3.9	25
27	Pilgrim tracking and identification using the mobile phone. , 2011, , .		24
28	Wireless Sensor Networks for Pilgrims Tracking. IEEE Embedded Systems Letters, 2012, 4, 106-109.	1.9	23
29	A multi-classifier image based vacant parking detection system. , 2013, , .		23
30	Splitting Global Solar Radiation into Diffuse and Direct Normal Fractions Using Artificial Neural Networks. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2012, 34, 1326-1336.	2.3	22
31	Pilgrims Tracking Using Wireless Sensor Network. , 2011, , .		21
32	Prototype Arabic Sign language recognition using multi-sensor data fusion of two leap motion controllers. , 2015, , .		21
33	KArSL. ACM Transactions on Asian and Low-Resource Language Information Processing, 2021, 20, 1-19.	2.0	21
34	A survey of image-based Arabic sign language recognition. , 2014, , .		20
35	Spatial estimation of wind speed. International Journal of Energy Research, 2012, 36, 545-552.	4.5	18
36	Arabic sign language recognition by decisions fusion using Dempster-Shafer theory of evidence. , 2013, , .		17

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37	Mobile Technology for Socio-Religious Events: A Case Study of NFC Technology. IEEE Technology and Society Magazine, 2015, 34, 73-79.	0.8	17
38	Diagnosing failed distribution transformers using neural networks. IEEE Transactions on Power Delivery, 2001, 16, 631-636.	4.3	16
39	An RFID-based pilgrim identification system (a pilot study). , 2008, , .		16
40	Class Attendance Management System Using NFC Mobile Devices. Intelligent Automation and Soft Computing, 2017, 23, 251-259.	2.1	16
41	A Case Study of an RFID-based System for Pilgrims Identification and Tracking. , 2010, , .		15
42	Preference-based smart parking system in a university campus. IET Intelligent Transport Systems, 2019, 13, 417-423.	3.0	15
43	Image based arabic sign language recognition. , 0, , .		14
44	Arabie sign language recognition using the Microsoft Kinect. , 2016, , .		14
45	GSM-based wireless home appliances monitoring & control system. , 0, , .		13
46	Smart card for smart campus: KFUPM case study. , 0, , .		12
47	Estimation of sunshine duration in Saudi Arabia. Journal of Renewable and Sustainable Energy, 2013, 5, 033128.	2.0	12
48	Wind Speed Predictability Accuracy with Height Using LiDAR Based Measurements and Artificial Neural Networks. Applied Artificial Intelligence, 2021, 35, 605-622.	3.2	12
49	Automation of the arabic sign language recognition. , 0, , .		11
50	Substructural neural network controller. Computers and Structures, 2000, 78, 575-581.	4.4	10
51	Pilgrim Tracking and Identification Using Wireless Sensor Networks and GPS in a Mobile Phone. Arabian Journal for Science and Engineering, 2013, 38, 2135-2141.	1.1	8
52	Convertible wind energy based on predicted wind speed at hub-height. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 140-148.	2.3	8
53	A Robust Scheme for Sparse Reflectivity Recovering From Uniformly Quantized Seismic Data. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8665-8673.	6.3	8
54	Seismic-data compression using autoassociative neural network and restricted Boltzmann machine. , 2018, , .		8

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55	Arabic Sign Language Recognition Using Deep Machine Learning. , 2021, , .		8
56	Disributed principal component analysis for data compression of sequential seismic sensor arrays. , 2016, , .		7
57	An Intelligent System for Vehicle Access Control using RFID and ALPR Technologies. Arabian Journal for Science and Engineering, 2016, 41, 3521-3530.	1.1	7
58	A hybrid RFID-LPR system for vehicle access control during Pilgrimage season in Saudi Arabia. , 2012, , .		6
59	Dual LMCs fusion for recognition of isolated Arabic sign language words. , 2017, , .		6
60	Seismic data compression using deep neural network predictors. , 2019, , .		6
61	Seismic-model estimation using particle-swarm optimization. , 2018, , .		6
62	Two adaptive stepsize rules for gradient descent and their application to the training of feedforward artificial neural networks. , 1994, , .		5
63	Contingency analysis of bulk power system using neural networks. , 0, , .		5
64	An information based framework for performance evaluation of image enhancement methods. , 2015, , .		5
65	A Multitone Model-Based Seismic Data Compression. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1030-1040.	9.3	5
66	A multi tone modeling for seismic data compression. , 2019, , .		5
67	A smart card management and application system. , 2010, , .		4
68	Multiple over-the-horizon radar track association. Optical Engineering, 1997, 36, 716.	1.0	3
69	A Bilingual Emotion Recognition System Using Deep Learning Neural Networks. , 2018, , .		3
70	Seismic data modeling and compression using particle swarm optimization. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	3
71	Crowd Anomaly Detection Systems Using RFID and WSN Review. , 2021, , .		3
72	Modelling OTHR tracks for association and fusion. , 0, , .		2

#	ARTICLE	IF	CITATIONS
73	Online Development of Digital Logic Design Course. , 0, , .		1
74	Likelihood-Ratio-Based Recovery for Seismic Reflectivity Series. IEEE Transactions on Industrial Electronics, 2022, 69, 11622-11632.	7.9	1
75	Kirigami-Enabled Wearable Health and Crowd Monitoring System. Arabian Journal for Science and Engineering, 2022, 47, 3583.	3.0	1
76	Interpolation Problem on Outlier Contaminated Seismogram Using Extreme Learning Machine. Advances in Science, Technology and Innovation, 2022, , 211-213.	0.4	1
77	Predictability of Wind Speed with Heights Using Recurrent Neural Networks. , 2021, , .		1
78	Seismic Data Compression: A Survey. Advances in Science, Technology and Innovation, 2022, , 253-255.	0.4	1
79	Projection-based methods for stepsize adaptation and their application to the training of feedforward artificial neural networks. , 1994, , .		0
80	Hierarchical clustering for OTHR track fusion. , 0, , .		0
81	A neural network approach towards multiradar track fusion. , 0, , .		0
82	ATM QoS prediction using neural-networks. , 0, , .		0
83	Artificial neural network for piezoelectric control systems. , 1999, , .		0
84	Artificial neural networks for optimal control of serial flexible structures. , 1999, , .		0
85	Assessment of transmission substations for AML upgrade (KSA case study). , 2016, , .		0
86	Sidelobe Suppression for Likelihood Ratio-Based Seismic Deconvolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	0
87	Enhanced Seismic Deconvolution by Side Lobe Suppression. , 2021, , .		0