

Mahmoud Elsisi

List of Publications by Year in descending order

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39
papers

1,813
citations

159358

30
h-index

329751

37
g-index

40
all docs

40
docs citations

40
times ranked

859
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning-Based Industry 4.0 and Internet of Things towards Effective Energy Management for Smart Buildings. <i>Sensors</i> , 2021, 21, 1038.	2.1	103
2	Effective IoT-based deep learning platform for online fault diagnosis of power transformers against cyberattacks and data uncertainties. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 190, 110686.	2.5	101
3	Experimental Setup for Online Fault Diagnosis of Induction Machines via Promising IoT and Machine Learning: Towards Industry 4.0 Empowerment. <i>IEEE Access</i> , 2021, 9, 115429-115441.	2.6	79
4	Robust Design of ANFIS-Based Blade Pitch Controller for Wind Energy Conversion Systems Against Wind Speed Fluctuations. <i>IEEE Access</i> , 2021, 9, 37894-37904.	2.6	77
5	Reliable Industry 4.0 Based on Machine Learning and IoT for Analyzing, Monitoring, and Securing Smart Meters. <i>Sensors</i> , 2021, 21, 487.	2.1	74
6	Bat inspired algorithm based optimal design of model predictive load frequency control. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 83, 426-433.	3.3	73
7	Towards Secured Online Monitoring for Digitalized GIS Against Cyber-Attacks Based on IoT and Machine Learning. <i>IEEE Access</i> , 2021, 9, 78415-78427.	2.6	69
8	An Improved Neural Network Algorithm to Efficiently Track Various Trajectories of Robot Manipulator Arms. <i>IEEE Access</i> , 2021, 9, 11911-11920.	2.6	68
9	Reliable Deep Learning and IoT-Based Monitoring System for Secure Computer Numerical Control Machines Against Cyber-Attacks With Experimental Verification. <i>IEEE Access</i> , 2022, 10, 23186-23197.	2.6	67
10	Optimal design of nonlinear model predictive controller based on new modified multitracker optimization algorithm. <i>International Journal of Intelligent Systems</i> , 2020, 35, 1857-1878.	3.3	61
11	Effective multi-sensor data fusion for chatter detection in milling process. <i>ISA Transactions</i> , 2022, 125, 514-527.	3.1	60
12	Optimal design of non-fragile PID controller. <i>Asian Journal of Control</i> , 2021, 23, 729-738.	1.9	58
13	Effective feature selection with fuzzy entropy and similarity classifier for chatter vibration diagnosis. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 184, 109962.	2.5	57
14	Development of an IoT Architecture Based on a Deep Neural Network against Cyber Attacks for Automated Guided Vehicles. <i>Sensors</i> , 2021, 21, 8467.	2.1	57
15	Robust Model Predictive Control Paradigm for Automatic Voltage Regulators against Uncertainty Based on Optimization Algorithms. <i>Mathematics</i> , 2021, 9, 2885.	1.1	55
16	Optimal design of robust resilient automatic voltage regulators. <i>ISA Transactions</i> , 2021, 108, 257-268.	3.1	52
17	Energy management of controllable loads in multi-area power systems with wind power penetration based on new supervisor fuzzy nonlinear sliding mode control. <i>Energy</i> , 2021, 221, 119867.	4.5	52
18	Improved grey wolf optimizer based on opposition and quasi learning approaches for optimization: case study autonomous vehicle including vision system. <i>Artificial Intelligence Review</i> , 2022, 55, 5597-5620.	9.7	51

#	ARTICLE	IF	CITATIONS
19	Optimal design of model predictive control with superconducting magnetic energy storage for load frequency control of nonlinear hydrothermal power system using bat inspired algorithm. Journal of Energy Storage, 2017, 12, 311-318.	3.9	49
20	New design of robust PID controller based on meta-heuristic algorithms for wind energy conversion system. Wind Energy, 2020, 23, 391-403.	1.9	47
21	Future search algorithm for optimization. Evolutionary Intelligence, 2019, 12, 21-31.	2.3	46
22	Effective Nonlinear Model Predictive Control Scheme Tuned by Improved NN for Robotic Manipulators. IEEE Access, 2021, 9, 64278-64290.	2.6	45
23	Design of Optimal Model Predictive Controller for LFC of Nonlinear Multi-area Power System with Energy Storage Devices. Electric Power Components and Systems, 2018, 46, 1300-1311.	1.0	44
24	Optimal design of low computational burden model predictive control based on SSDA towards autonomous vehicle under vision dynamics. International Journal of Intelligent Systems, 2021, 36, 6968-6987.	3.3	44
25	Design of neural network predictive controller based on imperialist competitive algorithm for automatic voltage regulator. Neural Computing and Applications, 2019, 31, 5017-5027.	3.2	42
26	Optimal design of battery charge management controller for hybrid system PV/wind cell with storage battery. International Journal of Power and Energy Conversion, 2020, 11, 412.	0.2	42
27	Model predictive control of plug-in hybrid electric vehicles for frequency regulation in a smart grid. IET Generation, Transmission and Distribution, 2017, 11, 3974-3983.	1.4	41
28	New design of adaptive model predictive control for energy conversion system with wind torque effect. Journal of Cleaner Production, 2019, 240, 118265.	4.6	39
29	New design of variable structure control based on lightning search algorithm for nuclear reactor power system considering load-following operation. Nuclear Engineering and Technology, 2020, 52, 544-551.	1.1	39
30	New variable structure control based on different meta-heuristics algorithms for frequency regulation considering nonlinearities effects. International Transactions on Electrical Energy Systems, 2020, 30, e12428.	1.2	39
31	Improving the grid frequency by optimal design of model predictive control with energy storage devices. Optimal Control Applications and Methods, 2018, 39, 263-280.	1.3	36
32	Improvement of Trajectory Tracking by Robot Manipulator Based on a New Co-Operative Optimization Algorithm. Mathematics, 2021, 9, 3231.	1.1	22
33	ABC Based Design of PID Controller for Two Area Load Frequency Control with Nonlinearities. Telkomnika: Indonesian Journal of Electrical Engineering, 2015, 16, 58.	0.1	14
34	Optimal design of battery charge management controller for hybrid system PV/wind cell with storage battery. International Journal of Power and Energy Conversion, 2020, 11, 412.	0.2	3
35	Model Predictive Control with Laguerre Function based on Social Ski Driver Algorithm for Autonomous Vehicle. , 2020, , .		2
36	Dual Proportional Integral Controller of Two-Area Load Frequency Control Based Gravitational Search Algorithm. TELKOMNIKA Indonesian Journal of Electrical Engineering, 2015, 15, .	0.1	2

#	ARTICLE	IF	CITATIONS
37	Control Mechanisms of Energy Storage Devices. , 0, , .		1
38	Model Predictive Control of Two-Area Load Frequency Control Based Imperialist Competitive Algorithm. Telkomnika: Indonesian Journal of Electrical Engineering, 2015, 16, 75.	0.1	1
39	Adaptive Energy Management in Microgrid Based on New Training Strategy for ANFIS. Lecture Notes in Networks and Systems, 2022, , 142-149.	0.5	1