

Mohammad-Hassan Khooban

List of Publications by Year in descending order

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189
papers

6,567
citations

44069

48
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88630

70
g-index

191
all docs

191
docs citations

191
times ranked

4100
citing authors

#	ARTICLE	IF	CITATIONS
1	A new load frequency control strategy for micro-grids with considering electrical vehicles. <i>Electric Power Systems Research</i> , 2017, 143, 585-598.	3.6	189
2	Secondary Load Frequency Control of Time-Delay Stand-Alone Microgrids With Electric Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 7416-7422.	7.9	159
3	A new intelligent online fuzzy tuning approach for multi-area load frequency control: Self Adaptive Modified Bat Algorithm. <i>International Journal of Electrical Power and Energy Systems</i> , 2015, 71, 254-261.	5.5	158
4	Shipboard Microgrids: A Novel Approach to Load Frequency Control. <i>IEEE Transactions on Sustainable Energy</i> , 2018, 9, 843-852.	8.8	156
5	Load Frequency Control in Microgrids Based on a Stochastic Noninteger Controller. <i>IEEE Transactions on Sustainable Energy</i> , 2018, 9, 853-861.	8.8	155
6	A robust adaptive load frequency control for micro-grids. <i>ISA Transactions</i> , 2016, 65, 220-229.	5.7	141
7	Fast fault detection and classification based on a combination of wavelet singular entropy theory and fuzzy logic in distribution lines in the presence of distributed generations. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 78, 455-462.	5.5	136
8	Model Predictive Control of DC-DC Converters to Mitigate the Effects of Pulsed Power Loads in Naval DC Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 5676-5685.	7.9	117
9	Probabilistic Forecasting of Hourly Electricity Price by Generalization of ELM for Usage in Improved Wavelet Neural Network. <i>IEEE Transactions on Industrial Informatics</i> , 2017, 13, 71-79.	11.3	110
10	Networked Fuzzy Predictive Control of Power Buffers for Dynamic Stabilization of DC Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 1356-1362.	7.9	109
11	A self-tuning load frequency control strategy for microgrids: Human brain emotional learning. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 75, 311-319.	5.5	106
12	A novel self-adaptive modified bat fuzzy sliding mode control of robot manipulator in presence of uncertainties in task space. <i>Robotica</i> , 2015, 33, 2045-2064.	1.9	91
13	A particle swarm optimization approach for fuzzy sliding mode control for tracking the robot manipulator. <i>Nonlinear Dynamics</i> , 2013, 74, 467-478.	5.2	87
14	Design an optimal fuzzy fractional proportional integral derivative controller with derivative filter for load frequency control in power systems. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 2563-2581.	1.7	85
15	Secondary load frequency control for multi-microgrids: HiL real-time simulation. <i>Soft Computing</i> , 2019, 23, 5785-5798.	3.6	84
16	Tracking Control for a DC Microgrid Feeding Uncertain Loads in More Electric Aircraft: Adaptive Backstepping Approach. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 5644-5652.	7.9	84
17	A new approach in MPPT for photovoltaic array based on Extremum Seeking Control under uniform and non-uniform irradiances. <i>Solar Energy</i> , 2013, 94, 28-36.	6.1	83
18	Robust Non-Fragile Fuzzy Control of Uncertain DC Microgrids Feeding Constant Power Loads. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 11300-11308.	7.9	83

#	ARTICLE	IF	CITATIONS
19	DC/DC Power Converter Control-Based Deep Machine Learning Techniques: Real-Time Implementation. IEEE Transactions on Power Electronics, 2020, 35, 9971-9977.	7.9	82
20	Improved Stabilization of Nonlinear DC Microgrids: Cubature Kalman Filter Approach. IEEE Transactions on Industry Applications, 2018, 54, 5104-5112.	4.9	81
21	A Novel Predictive Fuzzy Logic-Based Energy Management System for Grid-Connected and Off-Grid Operation of Residential Smart Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1391-1404.	5.4	80
22	Sliding mode disturbance observer control based on adaptive synchronization in a class of fractional-order chaotic systems. International Journal of Adaptive Control and Signal Processing, 2019, 33, 462-474.	4.1	79
23	A Novel Nonlinear Deep Reinforcement Learning Controller for DC-DC Power Buck Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 6849-6858.	7.9	78
24	Time-Delayed Stabilizing Secondary Load Frequency Control of Shipboard Microgrids. IEEE Systems Journal, 2019, 13, 3233-3241.	4.6	76
25	A Novel Deep Reinforcement Learning Controller Based Type-II Fuzzy System: Frequency Regulation in Microgrids. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 689-699.	4.9	75
26	EKF-Based Predictive Stabilization of Shipboard DC Microgrids With Uncertain Time-Varying Load. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 901-909.	5.4	74
27	T-S fuzzy model predictive speed control of electrical vehicles. ISA Transactions, 2016, 64, 231-240.	5.7	73
28	Multi-Objective Distribution feeder reconfiguration to improve transient stability, and minimize power loss and operation cost using an enhanced evolutionary algorithm at the presence of distributed generations. International Journal of Electrical Power and Energy Systems, 2016, 76, 35-43.	5.5	72
29	Model-predictive control based on Takagi-Sugeno fuzzy model for electrical vehicles delayed model. IET Electric Power Applications, 2017, 11, 918-934.	1.8	70
30	Design of Quadratic D-Stable Fuzzy Controller for DC Microgrids With Multiple CPLs. IEEE Transactions on Industrial Electronics, 2019, 66, 4805-4812.	7.9	68
31	Robust and Fast Voltage-Source-Converter (VSC) Control for Naval Shipboard Microgrids. IEEE Transactions on Power Electronics, 2019, 34, 8299-8303.	7.9	68
32	Adaptive TS Fuzzy-Based MPC for DC Microgrids With Dynamic CPLs: Nonlinear Power Observer Approach. IEEE Systems Journal, 2019, 13, 3203-3210.	4.6	68
33	Maximum Power Point Tracking Control of Photovoltaic Systems: A Polynomial Fuzzy Model-Based Approach. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 292-299.	5.4	67
34	Free chattering hybrid sliding mode control for a class of nonlinear systems: electric vehicles as a case study. IET Science, Measurement and Technology, 2016, 10, 776-785.	1.6	65
35	Robust control strategy for electrically driven robot manipulators: adaptive fuzzy sliding mode. IET Science, Measurement and Technology, 2015, 9, 322-334.	1.6	62
36	The Future 5G Network-Based Secondary Load Frequency Control in Shipboard Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 836-844.	5.4	62

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37	A New Intelligent Hybrid Control Approach for DC-DC Converters in Zero-Emission Ferry Ships. IEEE Transactions on Power Electronics, 2020, 35, 5832-5841.	7.9	60
38	Reliable Power Scheduling of an Emission-Free Ship: Multiobjective Deep Reinforcement Learning. IEEE Transactions on Transportation Electrification, 2020, 6, 832-843.	7.8	60
39	An optimal general type-2 fuzzy controller for Urban Traffic Network. ISA Transactions, 2017, 66, 335-343.	5.7	59
40	Robust Frequency Regulation in Mobile Microgrids: HIL Implementation. IEEE Systems Journal, 2019, 13, 4281-4291.	4.6	57
41	Control of a class of nonlinear uncertain chaotic systems via an optimal Type-2 fuzzy proportional integral derivative controller. IET Science, Measurement and Technology, 2013, 7, 50-58.	1.6	56
42	A novel control system design to improve LVRT capability of fixed speed wind turbines using STATCOM in presence of voltage fault. International Journal of Electrical Power and Energy Systems, 2016, 77, 280-286.	5.5	56
43	An Intelligent Non-Integer PID Controller-Based Deep Reinforcement Learning: Implementation and Experimental Results. IEEE Transactions on Industrial Electronics, 2021, 68, 3609-3618.	7.9	55
44	Robust fuzzy sliding mode control for tracking the robot manipulator in joint space and in presence of uncertainties. Robotica, 2014, 32, 433-446.	1.9	54
45	Speed control of electrical vehicles: a time-varying proportional-integral controller-based type-2 fuzzy logic. IET Science, Measurement and Technology, 2016, 10, 185-192.	1.6	52
46	Simultaneous energy management and optimal components sizing of a zero-emission ferry boat. Journal of Energy Storage, 2020, 28, 101215.	8.1	52
47	An optimal and intelligent control strategy for a class of nonlinear systems: adaptive fuzzy sliding mode. JVC/Journal of Vibration and Control, 2016, 22, 159-175.	2.6	51
48	An Intelligent and Fast Controller for DC/DC Converter Feeding CPL in a DC Microgrid. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1104-1108.	3.0	50
49	Resilient Frequency Control Design for Microgrids Under False Data Injection. IEEE Transactions on Industrial Electronics, 2021, 68, 2151-2162.	7.9	50
50	Energy Management of a Zero-Emission Ferry Boat With a Fuel-Cell-Based Hybrid Energy System: Feasibility Assessment. IEEE Transactions on Industrial Electronics, 2021, 68, 1739-1748.	7.9	49
51	Teaching-learning-based optimal interval type-2 fuzzy PID controller design: a nonholonomic wheeled mobile robots. Robotica, 2013, 31, 1059-1071.	1.9	48
52	An optimal type II fuzzy sliding mode control design for a class of nonlinear systems. Nonlinear Dynamics, 2014, 75, 73-83.	5.2	46
53	The online parameter identification of chaotic behaviour in permanent magnet synchronous motor by Self-Adaptive Learning Bat-inspired algorithm. International Journal of Electrical Power and Energy Systems, 2016, 78, 285-291.	5.5	46
54	Robust Self-Scheduling of Operational Processes for Industrial Demand Response Aggregators. IEEE Transactions on Industrial Electronics, 2020, 67, 1387-1395.	7.9	45

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55	Power Conditioning of Distribution Networks via Single-Phase Electric Vehicles Equipped. IEEE Systems Journal, 2019, 13, 3433-3442.	4.6	44
56	A Comparative Analysis of Optimal Operation Scenarios in Hybrid Emission-Free Ferry Ships. IEEE Transactions on Transportation Electrification, 2020, 6, 318-333.	7.8	44
57	Fuzzy sliding mode control scheme for a class of non-linear uncertain chaotic systems. IET Science, Measurement and Technology, 2013, 7, 249-255.	1.6	43
58	Design an intelligent proportional-derivative (PD) feedback linearization control for nonholonomic-wheeled mobile robot. Journal of Intelligent and Fuzzy Systems, 2014, 26, 1833-1843.	1.4	42
59	Time-Varying Sliding Mode Control Strategy for Multibus Low-Voltage Microgrids with Parallel Connected Renewable Power Sources in Islanding Mode. Journal of Energy Engineering - ASCE, 2016, 142, 05016002.	1.9	42
60	A New Adaptive Type-II Fuzzy-Based Deep Reinforcement Learning Control: Fuel Cell Air-Feed Sensors Control. IEEE Sensors Journal, 2019, 19, 9081-9089.	4.7	41
61	A novel self-tuning control method based on regulated bi-objective emotional learning controller's structure with TLBO algorithm to control DVR compensator. Applied Soft Computing Journal, 2014, 24, 912-922.	7.2	39
62	Design of optimal Mamdani-type fuzzy controller for nonholonomic wheeled mobile robots. Journal of King Saud University, Engineering Sciences, 2015, 27, 92-100.	2.0	39
63	Analysis, control and design of speed control of electric vehicles delayed model: multi-objective fuzzy fractional-order controller. IET Science, Measurement and Technology, 2017, 11, 249-261.	1.6	37
64	Dynamic voltage restorer control using bi-objective optimisation to improve power quality's indices. IET Science, Measurement and Technology, 2014, 8, 203-213.	1.6	35
65	Optimal Type-2 Fuzzy Controller For HVAC Systems. Automatika, 2014, 55, 69-78.	2.0	35
66	Optimal Non-Integer Sliding Mode Control for Frequency Regulation in Stand-Alone Modern Power Grids. Applied Sciences (Switzerland), 2019, 9, 3411.	2.5	35
67	IoT-Based DC/DC Deep Learning Power Converter Control: Real-Time Implementation. IEEE Transactions on Power Electronics, 2020, 35, 13621-13630.	7.9	35
68	Adaptive fuzzy sliding mode control for synchronization of uncertain non-identical chaotic systems using bacterial foraging optimization. Journal of Intelligent and Fuzzy Systems, 2014, 26, 2567-2576.	1.4	34
69	LMI-based stability analysis and robust controller design for a class of nonlinear chaotic power systems. Journal of the Franklin Institute, 2016, 353, 2835-2858.	3.4	34
70	Adaptive PI controller to voltage regulation in power systems: STATCOM as a case study. ISA Transactions, 2017, 66, 325-334.	5.7	34
71	Swarm optimization tuned Mamdani fuzzy controller for diabetes delayed model. Turkish Journal of Electrical Engineering and Computer Sciences, 2013, 21, 2110-2126.	1.4	33
72	A Novel On-Board DC/DC Converter Controller Feeding Uncertain Constant Power Loads. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1233-1240.	5.4	33

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73	Nonlinear Model Predictive Speed Control of Electric Vehicles Represented by Linear Parameter Varying Models With Bias Terms. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 2081-2089.	5.4	31
74	Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. IEEE Systems Journal, 2020, 14, 1058-1068.	4.6	31
75	Intelligent stochastic framework to solve the reconfiguration problem from the reliability view. IET Science, Measurement and Technology, 2014, 8, 245-259.	1.6	30
76	Improved frequency dynamic in isolated hybrid power system using an intelligent method. International Journal of Electrical Power and Energy Systems, 2016, 78, 225-238.	5.5	30
77	Electric Vehicle Power Propulsion System Control Based on Time-Varying Fractional Calculus: Implementation and Experimental Results. IEEE Transactions on Intelligent Vehicles, 2019, 4, 255-264.	12.7	30
78	A Novel Deep Learning Controller for DC-DC Buck-Boost Converters in Wireless Power Transfer Feeding CPLs. IEEE Transactions on Industrial Electronics, 2021, 68, 6379-6384.	7.9	30
79	A Novel Type-2 Fuzzy Logic for Improved Risk Analysis of Proton Exchange Membrane Fuel Cells in Marine Power Systems Application. Energies, 2018, 11, 721.	3.1	28
80	Robust Mixed μ -Synthesis Frequency Regulation in AC Mobile Power Grids. IEEE Transactions on Transportation Electrification, 2019, 5, 1182-1189.	7.8	28
81	Swarm optimization tuned fuzzy sliding mode control design for a class of nonlinear systems in presence of uncertainties. Journal of Intelligent and Fuzzy Systems, 2013, 24, 383-394.	1.4	26
82	Design of Optimal Self-Regulation Mamdani-Type Fuzzy Inference Controller for Type I Diabetes Mellitus. Arabian Journal for Science and Engineering, 2014, 39, 977-986.	1.1	26
83	Intelligent robust PI adaptive control strategy for speed control of EV(s). IET Science, Measurement and Technology, 2016, 10, 433-441.	1.6	26
84	Stabilisation and transient performance improvement of DC MGs with CPLs: nonlinear reset control approach. IET Generation, Transmission and Distribution, 2019, 13, 3169-3176.	2.5	25
85	Digital Twins-Assisted Design of Next-Generation Advanced Controllers for Power Systems and Electronics: Wind Turbine as a Case Study. Inventions, 2020, 5, 19.	2.5	25
86	Direct adaptive general type-2 fuzzy control for a class of uncertain nonlinear systems. IET Science, Measurement and Technology, 2014, 8, 518-527.	1.6	24
87	Probabilistic electricity price forecasting by improved clonal selection algorithm and wavelet preprocessing. Neural Computing and Applications, 2017, 28, 3889-3901.	5.6	24
88	Probabilistic wind power forecasting using a novel hybrid intelligent method. Neural Computing and Applications, 2018, 30, 473-485.	5.6	24
89	Pulsed power load effect mitigation in DC shipboard microgrids: a constrained model predictive approach. IET Power Electronics, 2019, 12, 2155-2160.	2.1	24
90	An Optimal Non-Integer Model Predictive Virtual Inertia Control in Inverter-Based Modern AC Power Grids-Based V2G Technology. IEEE Transactions on Energy Conversion, 2021, 36, 1336-1346.	5.2	24

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91	A time-varying general type-II fuzzy sliding mode controller for a class of nonlinear power systems. <i>Journal of Intelligent and Fuzzy Systems</i> , 2016, 30, 2927-2937.	1.4	23
92	Robotic manipulator control based on an optimal fractional-order fuzzy PID approach: SiL real-time simulation. <i>Soft Computing</i> , 2020, 24, 3849-3860.	3.6	23
93	A Close Loop Multi-Area Brain Stimulation Control for Parkinson's Patients Rehabilitation. <i>IEEE Sensors Journal</i> , 2020, 20, 2205-2213.	4.7	23
94	Analysis, control and design of a non-inverting buck-boost converter: A bump-less two-level Tâ€S fuzzy PI control. <i>ISA Transactions</i> , 2017, 67, 515-527.	5.7	22
95	Optimization of radial unbalanced distribution networks in the presence of distribution generation units by network reconfiguration using harmony search algorithm. <i>Neural Computing and Applications</i> , 2019, 31, 7095-7109.	5.6	22
96	A switching sliding mode control technique for chaos suppression of fractional-order complex systems. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 2932-2946.	1.7	22
97	Islanded Microgrid Frequency Regulations Concerning the Integration of Tidal Power Units: Real-Time Implementation. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 1099-1103.	3.0	22
98	An Intelligent Type-2 Fuzzy Stabilization of Multi-DC Nano Power Grids. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2021, 5, 854-859.	4.9	22
99	Stochastic Model Predictive Energy Management in Hybrid Emission-Free Modern Maritime Vessels. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 5430-5440.	11.3	22
100	Nonsingular Terminal Sliding Mode Control With Ultra-Local Model and Single Input Interval Type-2 Fuzzy Logic Control for Pitch Control of Wind Turbines. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021, 8, 690-700.	13.1	22
101	Supervised control strategy in trajectory tracking for a wheeled mobile robot. <i>IET Collaborative Intelligent Manufacturing</i> , 2019, 1, 3-9.	3.3	21
102	TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020, 50, 233-244.	9.3	21
103	An Efficient and Cost-Effective Power Scheduling in Zero-Emission Ferry Ships. <i>Complexity</i> , 2020, 2020, 1-12.	1.6	20
104	Polynomial fuzzy model-based approach for underactuated surface vessels. <i>IET Control Theory and Applications</i> , 2018, 12, 914-921.	2.1	19
105	Robust sliding mode observer design for simultaneous fault reconstruction in perturbed Takagi-Sugeno fuzzy systems using non-quadratic stability analysis. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 1092-1105.	2.6	19
106	Model predictive energy management in hybrid ferry grids. <i>Energy Reports</i> , 2020, 6, 550-557.	5.1	19
107	An Interleaved Bi-Directional ACâ€DC Converter With Reduced Switches and Reactive Power Control. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 132-136.	3.0	18
108	A Novel Stochastic Predictive Stabilizer for DC Microgrids Feeding CPLs. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021, 9, 1222-1232.	5.4	18

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109	Intelligent and Fast Model-Free Sliding Mode Control for Shipboard DC Microgrids. IEEE Transactions on Transportation Electrification, 2021, 7, 1662-1671.	7.8	18
110	A New Hybrid Cascaded Switched-Capacitor Reduced Switch Multilevel Inverter for Renewable Sources and Domestic Loads. IEEE Access, 2022, 10, 14157-14183.	4.2	18
111	Hardware-in-the-loop simulation for the analyzing of smart speed control in highly nonlinear hybrid electric vehicle. Transactions of the Institute of Measurement and Control, 2019, 41, 458-467.	1.7	17
112	A New Population-Based Optimization Method for Online Minimization of Voltage Harmonics in Islanded Microgrids. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1084-1088.	3.0	17
113	Stabilization of 5G Telecom Converter-Based Deep Type-3 Fuzzy Machine Learning Control for Telecom Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 544-548.	3.0	17
114	A robust and simple optimal type II fuzzy sliding mode control strategy for a class of nonlinear chaotic systems. Journal of Intelligent and Fuzzy Systems, 2014, 27, 1849-1859.	1.4	16
115	A novel intelligent strategy for probabilistic electricity price forecasting: Wavelet neural network based modified dolphin optimization algorithm. Journal of Intelligent and Fuzzy Systems, 2016, 31, 301-312.	1.4	15
116	Bidding strategies of the joint wind, hydro, and pumped-storage in generation company using novel improved clonal selection optimisation algorithm. IET Science, Measurement and Technology, 2017, 11, 991-1001.	1.6	15
117	Design of Robust Double-Fuzzy-Summation Nonparallel Distributed Compensation Controller for Chaotic Power Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	1.6	15
118	Real-Time Cellular Wireless Sensor Testbed for Frequency Regulation in Smart Grids. IEEE Sensors Journal, 2019, 19, 11656-11665.	4.7	15
119	Energy Management of Hybrid Diesel/Battery Ships in Multidisciplinary Emission Policy Areas. Energies, 2020, 13, 4179.	3.1	15
120	A Novel Deep Learning Backstepping Controller-Based Digital Twins Technology for Pitch Angle Control of Variable Speed Wind Turbine. Designs, 2020, 4, 15.	2.4	15
121	A new and robust control strategy for a class of nonlinear power systems: Adaptive general type-II fuzzy. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2015, 229, 517-528.	1.0	14
122	State estimation strategy for fractional order systems with noises and multiple time delayed measurements. IET Science, Measurement and Technology, 2017, 11, 9-17.	1.6	13
123	Hardware-in-the-loop simulation for the testing of smart control in grid-connected solar power generation systems. International Journal of Computer Applications in Technology, 2018, 58, 116.	0.5	13
124	Tracking Control for Hydrogen Fuel Cell Systems in Zero-Emission Ferry Ships. Complexity, 2019, 2019, 1-9.	1.6	13
125	Delay-Dependent Stability Analysis of Modern Shipboard Microgrids. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 1693-1705.	5.4	13
126	Deep Learning-Based Energy Management of an All-Electric City Bus With Wireless Power Transfer. IEEE Access, 2021, 9, 43981-43990.	4.2	13

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127	An Adaptive ADRC Control for Parkinson's Patients Using Machine Learning. IEEE Sensors Journal, 2021, 21, 8670-8678.	4.7	12
128	A survey on new trends of digital twin technology for power systems. Journal of Intelligent and Fuzzy Systems, 2021, 41, 3873-3893.	1.4	12
129	A New Passivity Preserving Model Order Reduction Method: Conic Positive Real Balanced Truncation Method. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2945-2953.	9.3	12
130	A New Parameter Tuning Technique for Noninteger Controllers in Low-Inertia Modern Power Grids. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 279-288.	3.9	12
131	Fuzzy-Observer-Based Predictive Stabilization of DC Microgrids With Power Buffers Through an Imperfect 5G Network. IEEE Systems Journal, 2020, 14, 4025-4035.	4.6	11
132	Reliability and Safety Improvement of Emission-Free Ships: Systemic Reliability-Centered Maintenance. IEEE Transactions on Transportation Electrification, 2021, 7, 256-266.	7.8	11
133	An Energy Efficient Solution for Fuel Cell Heat Recovery in Zero-Emission Ferry Boats: Deep Deterministic Policy Gradient. IEEE Transactions on Vehicular Technology, 2021, 70, 7571-7581.	6.3	11
134	A Novel Supervised Control Strategy for Interconnected DFIG-Based Wind Turbine Systems: MiL Validations. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 962-971.	4.9	11
135	A robust control strategy for a class of distributed network with transmission delays. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 1786-1813.	0.9	10
136	A robust and new simple control strategy for a class of nonlinear power systems: induction and servomotors. JVC/Journal of Vibration and Control, 2016, 22, 1568-1592.	2.6	10
137	TS-based sampled-data model predictive controller for continuous-time nonlinear systems. International Journal of Systems Science, 2018, 49, 3284-3295.	5.5	10
138	A Novel Approach to Overcome the Limitations of Reliability Centered Maintenance Implementation on the Smart Grid Distance Protection System. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 320-324.	3.0	10
139	Decentralised nonlinear droop control to improve current sharing and voltage restoration in DCNG clusters. IET Power Electronics, 2020, 13, 248-255.	2.1	10
140	A novel intelligent ultra-local model control-based type-II fuzzy for frequency regulation of multi-microgrids. Transactions of the Institute of Measurement and Control, 2022, 44, 1134-1148.	1.7	10
141	Smart Emergency EV-to-EV Portable Battery Charger. Inventions, 2022, 7, 45.	2.5	10
142	PI adaptive LS-SVR control scheme with disturbance rejection for a class of uncertain nonlinear systems. Engineering Applications of Artificial Intelligence, 2016, 52, 135-144.	8.1	9
143	A time-varying strategy for urban traffic network control: a fuzzy logic control based on an improved black hole algorithm. International Journal of Bio-Inspired Computation, 2017, 10, 33.	0.9	9
144	Non-fragile controller design of uncertain saturated polynomial fuzzy systems subjected to persistent bounded disturbance. Transactions of the Institute of Measurement and Control, 2019, 41, 842-858.	1.7	9

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145	A New Event-Triggered Type-3 Fuzzy Control System for Multi-Agent Systems: Optimal Economic Efficient Approach for Actuator Activating. Electronics (Switzerland), 2021, 10, 3122.	3.1	9
146	Virtual Hardware-in-the-Loop FMU Co-Simulation Based Digital Twins for Heating, Ventilation, and Air-Conditioning (HVAC) Systems. IEEE Transactions on Emerging Topics in Computational Intelligence, 2023, 7, 65-75.	4.9	9
147	A simple and intelligent online parameter identification of nonlinear chaotic systems. Journal of Intelligent and Fuzzy Systems, 2015, 29, 1501-1509.	1.4	8
148	EKF for Power Estimation of Uncertain Time-Varying CPLs in DC Shipboard MGs. , 2018, , .		8
149	Stabilization of DC Nanogrids Based on Non-Integer General Type-II Fuzzy System. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3108-3112.	3.0	8
150	Power system distribution planning considering reliability and DG owner's profit. Journal of Renewable and Sustainable Energy, 2017, 9, .	2.0	7
151	A Robust Shipboard DC-DC Power Converter Control: Concept Analysis and Experimental Results. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2612-2616.	3.0	7
152	Machine Learning Approach Based on Ultra-Local Model Control for Treating Cancer Pain. IEEE Sensors Journal, 2021, 21, 8245-8252.	4.7	7
153	Model Order Reduction of Positive Real Systems Based on Mixed Gramian Balanced Truncation with Error Bounds. Circuits, Systems, and Signal Processing, 2021, 40, 5309-5327.	2.0	7
154	Optimal Cascade Non-Integer Controller for Shunt Active Power Filter: Real-Time Implementation. Designs, 2022, 6, 32.	2.4	7
155	A New Nonlinear Controller for Multilevel DC/DC Boost Converter. , 2020, , .		6
156	Efficient and seamless power management of hybrid generation system based-on DFIG wind sources and microturbine in DC microgrid. Sustainable Energy, Grids and Networks, 2020, 23, 100367.	3.9	6
157	Smart Sensor Control for Rehabilitation in Parkinson's Patients. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 267-275.	4.9	6
158	A New Off-Board Electrical Vehicle Battery Charger: Topology, Analysis and Design. Designs, 2021, 5, 51.	2.4	6
159	Cost Effective Operation of a Hybrid Zero-Emission Ferry Ship. , 2020, , .		6
160	A parsimonious SVM model selection criterion for classification of real-world data sets via an adaptive population-based algorithm. Neural Computing and Applications, 2018, 30, 3421-3429.	5.6	5
161	Adaptive Network Based Fuzzy Inference System for Frequency Regulation in Modern Maritime Power Systems. , 2019, , .		5
162	A Novel Nonsingular Terminal Sliding Mode Control-Based Double Interval Type-2 Fuzzy Systems: Real-Time Implementation. Inventions, 2021, 6, 40.	2.5	5

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