Mohsin Jamil

List of Publications by Year
in descending order

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125 papers	4,968 citations	249298 26 h-index	111975 67 g-index
133 all docs	133 docs citations	133 times ranked	3776 citing authors

#	Article	IF	Citations
1	A Virtual Parallel Inductor Approach for Mitigating Reactive Power Sharing Error in a VSG Controlled Microgrid. IEEE Systems Journal, 2023, 17, 1363-1374.	2.9	4
2	Regression Model-Based Short-Term Load Forecasting for University Campus Load. IEEE Access, 2022, 10, 8891-8905.	2.6	35
3	A Transformerless AC-AC Converter with Improved Power Quality Employed to Step-Down Power Frequency at Output. Energies, 2022, 15, 667.	1.6	5
4	Investigation of the Power Quality Concerns of Input Current in Single-Phase Frequency Step-Down Converter. Applied Sciences (Switzerland), 2022, 12, 3663.	1.3	4
5	A Machine Learning-Based Robust State of Health (SOH) Prediction Model for Electric Vehicle Batteries. Electronics (Switzerland), 2022, 11, 1216.	1.8	5
6	Cascaded Inverters Increasing the Number of Levels and Effective Switching Frequency in Output Using Coupled Inductors. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, , 1-1.	3.7	0
7	Novel Three and Four Switch Inverters With Wide Input and Output Voltage Range for Renewable Energy Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 7385-7396.	3.7	3
8	A Trans-Inverse Magnetic Coupling Single-Phase AC-AC Converter. Energies, 2022, 15, 4319.	1.6	1
9	MTDC Grids: A Metaheuristic Solution for Nonlinear Control. Energies, 2022, 15, 4263.	1.6	8
10	Predicting Episodic Video Memorability using Deep Features Fusion Strategy. , 2022, , .		1
11	Latest Energy Storage Trends in Multi-Energy Standalone Electric Vehicle Charging Stations: A Comprehensive Study. Energies, 2022, 15, 4727.	1.6	26
12	A Low-Cost, Open-Source Peer-to-Peer Energy Trading System for a Remote Community Using the Internet-of-Things, Blockchain, and Hypertext Transfer Protocol. Energies, 2022, 15, 4862.	1.6	13
13	Direct Model Reference Adaptive Control of a Boost Converter for Voltage Regulation in Microgrids. Energies, 2022, 15, 5080.	1.6	8
14	Leveraging ANN and LDA Classifiers for Characterizing Different Hand Movements Using EMG Signals. Arabian Journal for Science and Engineering, 2021, 46, 1761-1769.	1.7	24
15	Neural network predictive control of vibrations in tall structure: An experimental controlled vision. Computers and Electrical Engineering, 2021, 89, 106940.	3.0	12
16	Evaluation of windowing techniques for intramuscular EMG-based diagnostic, rehabilitative and assistive devices. Journal of Neural Engineering, 2021, 18, 016017.	1.8	10
17	Predicting Risk of Antenatal Depression and Anxiety Using Multi-Layer Perceptrons and Support Vector Machines. Journal of Personalized Medicine, 2021, 11, 199.	1.1	8
18	Feedback-Linearization-Based Fuel-Cell Adaptive-Control Paradigm in a Microgrid Using a Wavelet-Entrenched NeuroFuzzy Framework. Energies, 2021, 14, 1850.	1.6	7

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19	A Finite-Time Robust Distributed Cooperative Secondary Control Protocol for Droop-Based Islanded AC Microgrids. Energies, 2021, 14, 2936.	1.6	7
20	Design and implementation of an open-Source IoT and blockchain-based peer-to-peer energy trading platform using ESP32-S2, Node-Red and, MQTT protocol. Energy Reports, 2021, 7, 5733-5746.	2.5	28
21	Techno-Economic Design of a Combined Heat and Power Microgrid for a Remote Community in Newfoundland Canada. IEEE Access, 2021, 9, 91548-91563.	2.6	21
22	An Energy Management System of Campus Microgrids: State-of-the-Art and Future Challenges. Energies, 2021, 14, 6525.	1.6	51
23	Technical Assessment of Hybrid HVDC Circuit Breaker Components under M-HVDC Faults. Energies, 2021, 14, 8148.	1.6	11
24	Optimal Energy Management of a Campus Microgrid Considering Financial and Economic Analysis with Demand Response Strategies. Energies, 2021, 14, 8501.	1.6	22
25	Design and Analysis of an Isolated DC-Microgrid for a Remote Community in Pakistan. , 2021, , .		1
26	Effective Voting Ensemble of Homogenous Ensembling with Multiple Attribute-Selection Approaches for Improved Identification of Thyroid Disorder. Electronics (Switzerland), 2021, 10, 3026.	1.8	17
27	Investigation of Photovoltaic Grid System under Non-Uniform Irradiance Conditions. Electronics (Switzerland), 2020, 9, 1512.	1.8	3
28	Brain Tumour Image Segmentation Using Deep Networks. IEEE Access, 2020, 8, 153589-153598.	2.6	60
29	Determination of Optimum Segmentation Schemes for Pattern Recognition-Based Myoelectric Control: A Multi-Dataset Investigation. IEEE Access, 2020, 8, 90862-90877.	2.6	15
30	A Multiday Evaluation of Real-Time Intramuscular EMG Usability with ANN. Sensors, 2020, 20, 3385.	2.1	12
31	Impact of an Energy Monitoring System on the Energy Efficiency of an Automobile Factory: A Case Study. Energies, 2020, 13, 2577.	1.6	7
32	Skin Lesion Segmentation from Dermoscopic Images Using Convolutional Neural Network. Sensors, 2020, 20, 1601.	2.1	77
33	Performance Evaluation of Convolutional Neural Network for Hand Gesture Recognition Using EMG. Sensors, 2020, 20, 1642.	2.1	76
34	Design of Robust Higher-Order Repetitive Controller Using Phase Lead Compensator. IEEE Access, 2020, 8, 30603-30614.	2.6	22
35	Photo detector-based indoor positioning systems variants: A new look. Computers and Electrical Engineering, 2020, 83, 106607.	3.0	6
36	Multiday Evaluation of Techniques for EMG-Based Classification of Hand Motions. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1526-1534.	3.9	82

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37	Optimal Power Flow and Unified Control Strategy for Multi-Terminal HVDC Systems. IEEE Access, 2019, 7, 92642-92650.	2.6	16
38	Ultraâ€wideband antenna for wearable Internet of Things devices and wireless body area network applications. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2590.	1.2	26
39	Regression convolutional neural network for improved simultaneous EMG control. Journal of Neural Engineering, 2019, 16, 036015.	1.8	110
40	A no-reference framework for evaluating video quality streamed through wireless network. Turkish Journal of Electrical Engineering and Computer Sciences, 2019, 27, 3383-3399.	0.9	0
41	On the robustness of real-time myoelectric control investigations: a multiday Fittsâ€™ law approach. Journal of Neural Engineering, 2019, 16, 026003.	1.8	20
42	The effect of time on EMG classification of hand motions in able-bodied and transradial amputees. Journal of Electromyography and Kinesiology, 2018, 40, 72-80.	0.7	43
43	Power line noise removal from ECG signal using notch, band stop and adaptive filters. , 2018, , .		16
44	An appraisal of nodules detection techniques for lung cancer in CT images. Biomedical Signal Processing and Control, 2018, 41, 140-151.	3.5	41
45	A Protection Scheme for Multi-Terminal VSC-HVDC Transmission Systems. IEEE Access, 2018, 6, 3159-3166.	2.6	48
46	H.264 Encoder Parameter Optimization for Encoded Wireless Multimedia Transmissions. IEEE Access, 2018, 6, 22046-22053.	2.6	18
47	Solving the Problem of Economic Load Dispatch for a Small Scale Power System Using a Novel Hybrid PSO-GSA Algorithm. , 2018, , .		4
48	Video abstraction inspired by human visual attention models. , 2018, , .		0
49	Photo Detector Based Indoor Positioning Systems Variants. , 2018, , .		0
50	Comparison of Nonlinear Controllers for Speed Control of DC Motor. , 2018, , .		1
51	Grid Interconnection of Micro Hydro Power Plants: Major Requirements, Key Issues and Challenges. , 2018, , .		3
52	Conventional analysis of trial-by-trial adaptation is biased: Empirical and theoretical support using a Bayesian estimator. PLoS Computational Biology, 2018, 14, e1006501.	1.5	14
53	Design Considerations of Stand-Alone Solar Photovoltaic Systems. , 2018, , .		28
54	Electric Motors and Speed Sensorless Control for Electric and Hybrid Electric Vehicles: A Review. , 2018, , .		12

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55	Rotor Flux MRAS based Speed Sensorless Indirect Field Oriented Control of Induction Motor Drive for Electric and Hybrid Electric Vehicles. , 2018, , .		5
56	Automatic Power Factor Correction for Single Phase Domestic Loads by Means of Arduino Based TRIAC Control of Capacitor Banks. , 2018, , .		7
57	Multi-Objective Optimization of VSC Stations in Multi-Terminal VSC-HVdc Grids, Based on PSO. IEEE Access, 2018, 6, 62995-63004.	2.6	27
58	Real-time, simultaneous myoelectric control using a convolutional neural network. PLoS ONE, 2018, 13, e0203835.	1.1	60
59	Classification of Overt and Covert Speech for Near-Infrared Spectroscopy-Based Brain Computer Interface. Sensors, 2018, 18, 2989.	2.1	7
60	Maximizing Throughput of Hybrid FSO-RF Communication System: An Algorithm. IEEE Access, 2018, 6, 30039-30048.	2.6	29
61	A Novel Dual Ultrawideband CPW-Fed Printed Antenna for Internet of Things (IoT) Applications. Wireless Communications and Mobile Computing, 2018, 2018, 1-9.	0.8	24
62	A Compact Rectenna System With High Conversion Efficiency for Wireless Energy Harvesting. IEEE Access, 2018, 6, 35857-35866.	2.6	97
63	Multiday EMG-Based Classification of Hand Motions with Deep Learning Techniques. Sensors, 2018, 18, 2497.	2.1	146
64	Designing PID Controller Based Semi-active Suspension System Using MATLAB Simulink. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 282-295.	0.2	2
65	Link Adaptation for Maximizing MI of Hybrid Optical/RF Communication System. Procedia Computer Science, 2017, 110, 282-289.	1.2	6
66	Adaptive hybrid free space optical/radio frequency communication system. Telecommunication Systems, 2017, 65, 117-126.	1.6	24
67	Power Dispatch and Voltage Control in Multiterminal HVDC Systems: A Flexible Approach. IEEE Access, 2017, 5, 24608-24616.	2.6	33
68	Optimizing Availability of a Framework in Series Configuration Utilizing Markov Model and Monte Carlo Simulation Techniques. Symmetry, 2017, 9, 96.	1.1	2
69	Intelligent Machine Vision Based Modeling and Positioning System in Sand Casting Process. Advances in Materials Science and Engineering, 2017, 2017, 1-11.	1.0	5
70	Economic Analysis for HVDC Transmission System in Pakistan. International Journal of Control and Automation, 2017, 10, 29-38.	0.3	11
71	Review of Fiducial and Non-Fiducial Techniques of Feature Extraction in ECG based Biometric Systems. Indian Journal of Science and Technology, 2016, 9, .	0.5	12
72	Jib System Control of Industrial Robotic Three Degree of Freedom Crane using a Hybrid Controller. Indian Journal of Science and Technology, 2016, 9, .	0.5	8

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73	Performance Improvement in Lifetime and Throughput of LEACH Protocol. Indian Journal of Science and Technology, 2016, 9, .	0.5	9
74	Design and Analysis of Second Order Passive Filters for Grid Connected Inverter with Series and Parallel Damping Resistors. Indian Journal of Science and Technology, 2016, 9, .	0.5	4
75	Energy Optimization in Smart Homes Using Customer Preference and Dynamic Pricing. Energies, 2016, 9, 593.	1.6	40
76	Adaptation of Hybrid FSO/RF Communication System Using Puncturing Technique. Radioengineering, 2016, 25, 644-651.	0.3	13
77	Design of higher order repetitive controller for non minimum phase plants. , 2016, , .		2
78	Digital control of trolley position and payload vibrations of non-linear Quanser three degree of freedom crane. , 2016, , .		0
79	Performance analysis of parabolic trough collectors for Pakistan using mathematical and computational models. , 2016, , .		2
80	Formal modelling of TCP congestion control mechanisms ECN/RED and SAP-LAW in the presence of UDP traffic. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	1.5	5
81	Intelligent control of industrial robotic three degree of freedom crane using Artificial Neural Network. , 2016, , .		0
82	Automated Scene Analysis by Image Feature Extraction. , 2016, , .		1
83	LQR Based Training of Adaptive Neuro-Fuzzy Controller. Smart Innovation, Systems and Technologies, 2016, , 311-322.	0.5	3
84	Effect of Project Management Practices on Project Success in Make-to-Order Manufacturing Organizations. Indian Journal of Science and Technology, 2016, 9, .	0.5	3
85	Modal Analysis of Shipâ€™s Mast Structure using Effective Mass Participation Factor. Indian Journal of Science and Technology, 2016, 9, .	0.5	3
86	Fuzzy Logic Controller for Boiler Temperature Control using LabVIEW and Matlab. International Journal of Control and Automation, 2016, 9, 89-104.	0.3	4
87	Design and Analysis of Optimal Controllers for Grid Connected Inverters for Photovoltaic Applications. International Journal of Control and Automation, 2016, 9, 229-236.	0.3	0
88	Delay-Sensitive Routing Schemes for Underwater Acoustic Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 532676.	1.3	51
89	EXIT chart behaviour for the hybrid FSO/RF communication system. , 2015, , .		4
90	Two Level Voltage Source Grid Connected Inverter for Solar Photovoltaic System. International Journal of Control and Automation, 2015, 8, 391-398.	0.3	4

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91	Modeling Routing Overhead of Reactive Protocols at Link Layer and Network Layer in Wireless Multihop Networks. Mathematical Problems in Engineering, 2015, 2015, 1-14.	0.6	3
92	Comparative Analysis of Classifiers for Developing an Adaptive Computer-Assisted EEG Analysis System for Diagnosing Epilepsy. BioMed Research International, 2015, 2015, 1-14.	0.9	15
93	Modeling mobility and psychological stress based human postural changes in wireless body area networks. Computers in Human Behavior, 2015, 51, 1042-1053.	5.1	27
94	Robust Repetitive Current Control of Two-Level Utility-Connected Converter using LCL Filter. Arabian Journal for Science and Engineering, 2015, 40, 2653-2670.	1.1	5
95	Text Detection and Recognition for Semantic Mapping in Indoor Navigation. , 2015, , .		1
96	Do Cost Functions for Tracking Error Generalize across Tasks with Different Noise Levels?. PLoS ONE, 2015, 10, e0136251.	1.1	4
97	IMPROVED METHOD FOR STEREO VISION-BASED HUMAN DETECTION FOR A MOBILE ROBOT FOLLOWING A TARGET PERSON. South African Journal of Industrial Engineering, 2015, 26, 102.	0.2	3
98	Collaborative Optimal Reciprocal Collision Avoidance for Mobile Robots. International Journal of Control and Automation, 2015, 8, 203-212.	0.3	1
99	Saliency Based Object Detection and Enhancements Using Spectral Residual Approach in Static Images and Videos. Advanced Science Letters, 2015, 21, 3677-3679.	0.2	0
100	Maximizing Throughput of Free Space Communication Systems Using Puncturing Technique. Arabian Journal for Science and Engineering, 2014, 39, 8925-8933.	1.1	4
101	Robust hybrid normalized convolution and forward error correction in image reconstruction. , 2014, , .		2
102	Centre of mass avoidance planner using radius of gyration for Reciprocal Velocity Obstacles. , 2014, , .		0
103	Developments in adaptive control techniques for machine tools. , 2014, , .		0
104	Design and analysis of repetitive controllers for grid connected inverter considering plant bandwidth for interfacing renewable energy sources. , 2014, , .		5
105	Classification of left/right hand movement from EEG signal by intelligent algorithms. , 2014, , .		7
106	Development of low cost radio range testing system for unmanned disaster relief helicopter. , 2014, , .		0
107	Face and eye detection in images using skin color segmentation and circular hough transform. , 2014, , .		4
108	Modeling, control of a two-wheeled self-balancing robot. , 2014, , .		19

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109	Design and implementation of low cost remote-operated unmanned ground vehicle (UGV). , 2014, , .		8
110	Performance analysis of proactive and reactive protocols in mobile Ad-hoc networking: A simulation based analysis. , 2014, , .		1
111	A comparison of various robotic control architectures for autonomous navigation of mobile robots. , 2014, , .		7
112	Improvement in solar panel efficiency using solar concentration by simple mirrors and by cooling. , 2014, , .		50
113	Human tracking by a mobile robot using 3D features. , 2013, , .		5
114	Repetitive current control of an interleaved grid-connected inverter. , 2012, , .		17
115	Resolving the Limb Position Effect in Myoelectric Pattern Recognition. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 644-651.	2.7	299
116	Electromyogram pattern recognition for control of powered upper-limb prostheses: State of the art and challenges for clinical use. Journal of Rehabilitation Research and Development, 2011, 48, 643.	1.6	741
117	Fluctuating emg signals: Investigating long-term effects of pattern matching algorithms. , 2010, 2010, 6357-60.		82
118	Robust repetitive feedback control of a three-phase grid connected inverter. , 2010, , .		10
119	A training strategy to reduce classification degradation due to electrode displacements in pattern recognition based myoelectric control. Biomedical Signal Processing and Control, 2008, 3, 175-180.	3.5	228
120	Estimating forces at multiple degrees of freedom from surface EMG using non-negative matrix factorization for myoelectric control. , 2008, , .		0
121	4G: The future mobile technology. , 2008, , .		11
122	Harmonics in Adjustable Speed Drives: Causes, Effects, and Solutions. , 2007, , .		3
123	A robust, real-time control scheme for multifunction myoelectric control. IEEE Transactions on Biomedical Engineering, 2003, 50, 848-854.	2.5	1,416
124	Continuous multifunction myoelectric control using pattern recognition. Technology and Disability, 2003, 15, 95-103.	0.3	70
125	Identification of Dynamic Systems & Selection of Suitable Model. , 0, , .		2