

Mohsin Jamil

List of Publications by Year in descending order

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125
papers

4,968
citations

218381

26
h-index

98622

67
g-index

133
all docs

133
docs citations

133
times ranked

3393
citing authors

#	ARTICLE	IF	CITATIONS
1	A robust, real-time control scheme for multifunction myoelectric control. IEEE Transactions on Biomedical Engineering, 2003, 50, 848-854.	2.5	1,416
2	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
3	Resolving the Limb Position Effect in Myoelectric Pattern Recognition. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 644-651.	2.7	299
4	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
5	Multiday EMG-Based Classification of Hand Motions with Deep Learning Techniques. Sensors, 2018, 18, 2497.	2.1	146
6	Regression convolutional neural network for improved simultaneous EMG control. Journal of Neural Engineering, 2019, 16, 036015.	1.8	110
7	A Compact Rectenna System With High Conversion Efficiency for Wireless Energy Harvesting. IEEE Access, 2018, 6, 35857-35866.	2.6	97
8	Fluctuating emg signals: Investigating long-term effects of pattern matching algorithms. , 2010, 2010, 6357-60.		82
9	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
10	Skin Lesion Segmentation from Dermoscopic Images Using Convolutional Neural Network. Sensors, 2020, 20, 1601.	2.1	77
11	Performance Evaluation of Convolutional Neural Network for Hand Gesture Recognition Using EMG. Sensors, 2020, 20, 1642.	2.1	76
12	Continuous multifunction myoelectric control using pattern recognition. Technology and Disability, 2003, 15, 95-103.	0.3	70
13	Real-time, simultaneous myoelectric control using a convolutional neural network. PLoS ONE, 2018, 13, e0203835.	1.1	60
14	Brain Tumour Image Segmentation Using Deep Networks. IEEE Access, 2020, 8, 153589-153598.	2.6	60
15	Delay-Sensitive Routing Schemes for Underwater Acoustic Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 532676.	1.3	51
16	An Energy Management System of Campus Microgrids: State-of-the-Art and Future Challenges. Energies, 2021, 14, 6525.	1.6	51
17	Improvement in solar panel efficiency using solar concentration by simple mirrors and by cooling. , 2014, , .		50
18	A Protection Scheme for Multi-Terminal VSC-HVDC Transmission Systems. IEEE Access, 2018, 6, 3159-3166.	2.6	48

#	ARTICLE	IF	CITATIONS
19	The effect of time on EMG classification of hand motions in able-bodied and transradial amputees. <i>Journal of Electromyography and Kinesiology</i> , 2018, 40, 72-80.	0.7	43
20	An appraisal of nodules detection techniques for lung cancer in CT images. <i>Biomedical Signal Processing and Control</i> , 2018, 41, 140-151.	3.5	41
21	Energy Optimization in Smart Homes Using Customer Preference and Dynamic Pricing. <i>Energies</i> , 2016, 9, 593.	1.6	40
22	Regression Model-Based Short-Term Load Forecasting for University Campus Load. <i>IEEE Access</i> , 2022, 10, 8891-8905.	2.6	35
23	Power Dispatch and Voltage Control in Multiterminal HVDC Systems: A Flexible Approach. <i>IEEE Access</i> , 2017, 5, 24608-24616.	2.6	33
24	Maximizing Throughput of Hybrid FSO-RF Communication System: An Algorithm. <i>IEEE Access</i> , 2018, 6, 30039-30048.	2.6	29
25	Design Considerations of Stand-Alone Solar Photovoltaic Systems. , 2018, , .		28
26	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. <i>Energy Reports</i> , 2021, 7, 5733-5746.	2.5	28
27	Modeling mobility and psychological stress based human postural changes in wireless body area networks. <i>Computers in Human Behavior</i> , 2015, 51, 1042-1053.	5.1	27
28	Multi-Objective Optimization of VSC Stations in Multi-Terminal VSC-HVdc Grids, Based on PSO. <i>IEEE Access</i> , 2018, 6, 62995-63004.	2.6	27
29	Ultra-wideband antenna for wearable Internet of Things devices and wireless body area network applications. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2019, 32, e2590.	1.2	26
30	Latest Energy Storage Trends in Multi-Energy Standalone Electric Vehicle Charging Stations: A Comprehensive Study. <i>Energies</i> , 2022, 15, 4727.	1.6	26
31	Adaptive hybrid free space optical/radio frequency communication system. <i>Telecommunication Systems</i> , 2017, 65, 117-126.	1.6	24
32	A Novel Dual Ultrawideband CPW-Fed Printed Antenna for Internet of Things (IoT) Applications. <i>Wireless Communications and Mobile Computing</i> , 2018, 2018, 1-9.	0.8	24
33	Leveraging ANN and LDA Classifiers for Characterizing Different Hand Movements Using EMG Signals. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 1761-1769.	1.7	24
34	Design of Robust Higher-Order Repetitive Controller Using Phase Lead Compensator. <i>IEEE Access</i> , 2020, 8, 30603-30614.	2.6	22
35	Optimal Energy Management of a Campus Microgrid Considering Financial and Economic Analysis with Demand Response Strategies. <i>Energies</i> , 2021, 14, 8501.	1.6	22
36	Techno-Economic Design of a Combined Heat and Power Microgrid for a Remote Community in Newfoundland Canada. <i>IEEE Access</i> , 2021, 9, 91548-91563.	2.6	21

#	ARTICLE	IF	CITATIONS
37	On the robustness of real-time myoelectric control investigations: a multiday Fittsâ€™ law approach. <i>Journal of Neural Engineering</i> , 2019, 16, 026003.	1.8	20
38	Modeling, control of a two-wheeled self-balancing robot. , 2014, , .		19
39	H.264 Encoder Parameter Optimization for Encoded Wireless Multimedia Transmissions. <i>IEEE Access</i> , 2018, 6, 22046-22053.	2.6	18
40	Repetitive current control of an interleaved grid-connected inverter. , 2012, , .		17
41	Effective Voting Ensemble of Homogenous Ensembling with Multiple Attribute-Selection Approaches for Improved Identification of Thyroid Disorder. <i>Electronics (Switzerland)</i> , 2021, 10, 3026.	1.8	17
42	Power line noise removal from ECG signal using notch, band stop and adaptive filters. , 2018, , .		16
43	Optimal Power Flow and Unified Control Strategy for Multi-Terminal HVDC Systems. <i>IEEE Access</i> , 2019, 7, 92642-92650.	2.6	16
44	Comparative Analysis of Classifiers for Developing an Adaptive Computer-Assisted EEG Analysis System for Diagnosing Epilepsy. <i>BioMed Research International</i> , 2015, 2015, 1-14.	0.9	15
45	Determination of Optimum Segmentation Schemes for Pattern Recognition-Based Myoelectric Control: A Multi-Dataset Investigation. <i>IEEE Access</i> , 2020, 8, 90862-90877.	2.6	15
46	Conventional analysis of trial-by-trial adaptation is biased: Empirical and theoretical support using a Bayesian estimator. <i>PLoS Computational Biology</i> , 2018, 14, e1006501.	1.5	14
47	Adaptation of Hybrid FSO/RF Communication System Using Puncturing Technique. <i>Radioengineering</i> , 2016, 25, 644-651.	0.3	13
48	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. <i>Energies</i> , 2022, 15, 4862.	1.6	13
49	Review of Fiducial and Non-Fiducial Techniques of Feature Extraction in ECG based Biometric Systems. <i>Indian Journal of Science and Technology</i> , 2016, 9, , .	0.5	12
50	Electric Motors and Speed Sensorless Control for Electric and Hybrid Electric Vehicles: A Review. , 2018, , .		12
51	A Multiday Evaluation of Real-Time Intramuscular EMG Usability with ANN. <i>Sensors</i> , 2020, 20, 3385.	2.1	12
52	Neural network predictive control of vibrations in tall structure: An experimental controlled vision. <i>Computers and Electrical Engineering</i> , 2021, 89, 106940.	3.0	12
53	4G: The future mobile technology. , 2008, , .		11
54	Economic Analysis for HVDC Transmission System in Pakistan. <i>International Journal of Control and Automation</i> , 2017, 10, 29-38.	0.3	11

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55	Technical Assessment of Hybrid HVDC Circuit Breaker Components under M-HVDC Faults. <i>Energies</i> , 2021, 14, 8148.	1.6	11
56	Robust repetitive feedback control of a three-phase grid connected inverter. , 2010, , .		10
57	Evaluation of windowing techniques for intramuscular EMG-based diagnostic, rehabilitative and assistive devices. <i>Journal of Neural Engineering</i> , 2021, 18, 016017.	1.8	10
58	Performance Improvement in Lifetime and Throughput of LEACH Protocol. <i>Indian Journal of Science and Technology</i> , 2016, 9, .	0.5	9
59	Design and implementation of low cost remote-operated unmanned ground vehicle (UGV). , 2014, , .		8
60	Jib System Control of Industrial Robotic Three Degree of Freedom Crane using a Hybrid Controller. <i>Indian Journal of Science and Technology</i> , 2016, 9, .	0.5	8
61	Predicting Risk of Antenatal Depression and Anxiety Using Multi-Layer Perceptrons and Support Vector Machines. <i>Journal of Personalized Medicine</i> , 2021, 11, 199.	1.1	8
62	MTDC Grids: A Metaheuristic Solution for Nonlinear Control. <i>Energies</i> , 2022, 15, 4263.	1.6	8
63	Direct Model Reference Adaptive Control of a Boost Converter for Voltage Regulation in Microgrids. <i>Energies</i> , 2022, 15, 5080.	1.6	8
64	Classification of left/right hand movement from EEG signal by intelligent algorithms. , 2014, , .		7
65	A comparison of various robotic control architectures for autonomous navigation of mobile robots. , 2014, , .		7
66	Automatic Power Factor Correction for Single Phase Domestic Loads by Means of Arduino Based TRIAC Control of Capacitor Banks. , 2018, , .		7
67	Classification of Overt and Covert Speech for Near-Infrared Spectroscopy-Based Brain Computer Interface. <i>Sensors</i> , 2018, 18, 2989.	2.1	7
68	Impact of an Energy Monitoring System on the Energy Efficiency of an Automobile Factory: A Case Study. <i>Energies</i> , 2020, 13, 2577.	1.6	7
69	Feedback-Linearization-Based Fuel-Cell Adaptive-Control Paradigm in a Microgrid Using a Wavelet-Entrenched NeuroFuzzy Framework. <i>Energies</i> , 2021, 14, 1850.	1.6	7
70	A Finite-Time Robust Distributed Cooperative Secondary Control Protocol for Droop-Based Islanded AC Microgrids. <i>Energies</i> , 2021, 14, 2936.	1.6	7
71	Link Adaptation for Maximizing MI of Hybrid Optical/RF Communication System. <i>Procedia Computer Science</i> , 2017, 110, 282-289.	1.2	6
72	Photo detector-based indoor positioning systems variants: A new look. <i>Computers and Electrical Engineering</i> , 2020, 83, 106607.	3.0	6

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73	Human tracking by a mobile robot using 3D features. , 2013, , .		5
74	Design and analysis of repetitive controllers for grid connected inverter considering plant bandwidth for interfacing renewable energy sources. , 2014, , .		5
75	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
76	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
77	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
78	Rotor Flux MRAS based Speed Sensorless Indirect Field Oriented Control of Induction Motor Drive for Electric and Hybrid Electric Vehicles. , 2018, , .		5
79	A Transformerless AC-AC Converter with Improved Power Quality Employed to Step-Down Power Frequency at Output. Energies, 2022, 15, 667.	1.6	5
80	A Machine Learning-Based Robust State of Health (SOH) Prediction Model for Electric Vehicle Batteries. Electronics (Switzerland), 2022, 11, 1216.	1.8	5
81	Maximizing Throughput of Free Space Communication Systems Using Puncturing Technique. Arabian Journal for Science and Engineering, 2014, 39, 8925-8933.	1.1	4
82	Face and eye detection in images using skin color segmentation and circular hough transform. , 2014, , .		4
83	EXIT chart behaviour for the hybrid FSO/RF communication system. , 2015, , .		4
84	Two Level Voltage Source Grid Connected Inverter for Solar Photovoltaic System. International Journal of Control and Automation, 2015, 8, 391-398.	0.3	4
85	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
86	Solving the Problem of Economic Load Dispatch for a Small Scale Power System Using a Novel Hybrid PSO-GSA Algorithm. , 2018, , .		4
87	Do Cost Functions for Tracking Error Generalize across Tasks with Different Noise Levels?. PLoS ONE, 2015, 10, e0136251.	1.1	4
88	Fuzzy Logic Controller for Boiler Temperature Control using LabVIEW and Matlab. International Journal of Control and Automation, 2016, 9, 89-104.	0.3	4
89	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
90	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

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91	Harmonics in Adjustable Speed Drives: Causes, Effects, and Solutions. , 2007, , .		3
92	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
93	LQR Based Training of Adaptive Neuro-Fuzzy Controller. Smart Innovation, Systems and Technologies, 2016, , 311-322.	0.5	3
94	Grid Interconnection of Micro Hydro Power Plants: Major Requirements, Key Issues and Challenges. , 2018, , .		3
95	Investigation of Photovoltaic Grid System under Non-Uniform Irradiance Conditions. Electronics (Switzerland), 2020, 9, 1512.	1.8	3
96	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
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	Modal Analysis of Shipâ€™s Mast Structure using Effective Mass Participation Factor. Indian Journal of Science and Technology, 2016, 9, .	0.5	3
99	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
100	Robust hybrid normalized convolution and forward error correction in image reconstruction. , 2014, , .		2
101	Design of higher order repetitive controller for non minimum phase plants. , 2016, , .		2
102	Performance analysis of parabolic trough collectors for Pakistan using mathematical and computational models. , 2016, , .		2
103	Optimizing Availability of a Framework in Series Configuration Utilizing Markov Model and Monte Carlo Simulation Techniques. Symmetry, 2017, 9, 96.	1.1	2
104	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
105	Identification of Dynamic Systems & Selection of Suitable Model. , 0, , .		2
106	Performance analysis of proactive and reactive protocols in mobile Ad-hoc networking: A simulation based analysis. , 2014, , .		1
107	Text Detection and Recognition for Semantic Mapping in Indoor Navigation. , 2015, , .		1
108	Automated Scene Analysis by Image Feature Extraction. , 2016, , .		1

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109	Comparison of Nonlinear Controllers for Speed Control of DC Motor. , 2018, , .		1
110	Collaborative Optimal Reciprocal Collision Avoidance for Mobile Robots. International Journal of Control and Automation, 2015, 8, 203-212.	0.3	1
111	Design and Analysis of an Isolated DC-Microgrid for a Remote Community in Pakistan. , 2021, , .		1
112	A Trans-Inverse Magnetic Coupling Single-Phase AC-AC Converter. Energies, 2022, 15, 4319.	1.6	1
113	Predicting Episodic Video Memorability using Deep Features Fusion Strategy. , 2022, , .		1
114	Estimating forces at multiple degrees of freedom from surface EMG using non-negative matrix factorization for myoelectric control. , 2008, , .		0
115	Centre of mass avoidance planner using radius of gyration for Reciprocal Velocity Obstacles. , 2014, , .		0
116	Developments in adaptive control techniques for machine tools. , 2014, , .		0
117	Development of low cost radio range testing system for unmanned disaster relief helicopter. , 2014, , .		0
118	Digital control of trolley position and payload vibrations of non-linear Quanser three degree of freedom crane. , 2016, , .		0
119	Intelligent control of industrial robotic three degree of freedom crane using Artificial Neural Network. , 2016, , .		0
120	Video abstraction inspired by human visual attention models. , 2018, , .		0
121	Photo Detector Based Indoor Positioning Systems Variants. , 2018, , .		0
122	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
123	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
124	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
125	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