

Mohsin Jamil

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

4,968
citations

218677
26
h-index

98798
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. | 4.2 | 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. | 4.9 | 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. | 5.7 | 228 |
| 5 | Multiday EMG-Based Classification of Hand Motions with Deep Learning Techniques. Sensors, 2018, 18, 2497. | 3.8 | 146 |
| 6 | Regression convolutional neural network for improved simultaneous EMG control. Journal of Neural Engineering, 2019, 16, 036015. | 3.5 | 110 |
| 7 | A Compact Rectenna System With High Conversion Efficiency for Wireless Energy Harvesting. IEEE Access, 2018, 6, 35857-35866. | 4.2 | 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. | 6.3 | 82 |
| 10 | Skin Lesion Segmentation from Dermoscopic Images Using Convolutional Neural Network. Sensors, 2020, 20, 1601. | 3.8 | 77 |
| 11 | Performance Evaluation of Convolutional Neural Network for Hand Gesture Recognition Using EMG. Sensors, 2020, 20, 1642. | 3.8 | 76 |
| 12 | Continuous multifunction myoelectric control using pattern recognition. Technology and Disability, 2003, 15, 95-103. | 0.6 | 70 |
| 13 | Real-time, simultaneous myoelectric control using a convolutional neural network. PLoS ONE, 2018, 13, e0203835. | 2.5 | 60 |
| 14 | Brain Tumour Image Segmentation Using Deep Networks. IEEE Access, 2020, 8, 153589-153598. | 4.2 | 60 |
| 15 | Delay-Sensitive Routing Schemes for Underwater Acoustic Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 532676. | 2.2 | 51 |
| 16 | An Energy Management System of Campus Microgrids: State-of-the-Art and Future Challenges. Energies, 2021, 14, 6525. | 3.1 | 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. | 4.2 | 48 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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. | 1.7 | 43 |
| 20 | An appraisal of nodules detection techniques for lung cancer in CT images. Biomedical Signal Processing and Control, 2018, 41, 140-151. | 5.7 | 41 |
| 21 | Energy Optimization in Smart Homes Using Customer Preference and Dynamic Pricing. Energies, 2016, 9, 593. | 3.1 | 40 |
| 22 | Regression Model-Based Short-Term Load Forecasting for University Campus Load. IEEE Access, 2022, 10, 8891-8905. | 4.2 | 35 |
| 23 | Power Dispatch and Voltage Control in Multiterminal HVDC Systems: A Flexible Approach. IEEE Access, 2017, 5, 24608-24616. | 4.2 | 33 |
| 24 | Maximizing Throughput of Hybrid FSO-RF Communication System: An Algorithm. IEEE Access, 2018, 6, 30039-30048. | 4.2 | 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. Energy Reports, 2021, 7, 5733-5746. | 5.1 | 28 |
| 27 | Modeling mobility and psychological stress based human postural changes in wireless body area networks. Computers in Human Behavior, 2015, 51, 1042-1053. | 8.5 | 27 |
| 28 | Multi-Objective Optimization of VSC Stations in Multi-Terminal VSC-HVdc Grids, Based on PSO. IEEE Access, 2018, 6, 62995-63004. | 4.2 | 27 |
| 29 | Ultra-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. | 1.9 | 26 |
| 30 | Latest Energy Storage Trends in Multi-Energy Standalone Electric Vehicle Charging Stations: A Comprehensive Study. Energies, 2022, 15, 4727. | 3.1 | 26 |
| 31 | Adaptive hybrid free space optical/radio frequency communication system. Telecommunication Systems, 2017, 65, 117-126. | 2.5 | 24 |
| 32 | A Novel Dual Ultrawideband CPW-Fed Printed Antenna for Internet of Things (IoT) Applications. Wireless Communications and Mobile Computing, 2018, 2018, 1-9. | 1.2 | 24 |
| 33 | Leveraging ANN and LDA Classifiers for Characterizing Different Hand Movements Using EMG Signals. Arabian Journal for Science and Engineering, 2021, 46, 1761-1769. | 3.0 | 24 |
| 34 | Design of Robust Higher-Order Repetitive Controller Using Phase Lead Compensator. IEEE Access, 2020, 8, 30603-30614. | 4.2 | 22 |
| 35 | Optimal Energy Management of a Campus Microgrid Considering Financial and Economic Analysis with Demand Response Strategies. Energies, 2021, 14, 8501. | 3.1 | 22 |
| 36 | Techno-Economic Design of a Combined Heat and Power Microgrid for a Remote Community in Newfoundland Canada. IEEE Access, 2021, 9, 91548-91563. | 4.2 | 21 |

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| 37 | On the robustness of real-time myoelectric control investigations: a multiday Fittsâ€™ law approach. Journal of Neural Engineering, 2019, 16, 026003. | 3.5 | 20 |
| 38 | Modeling, control of a two-wheeled self-balancing robot. , 2014, , . | | 19 |
| 39 | H.264 Encoder Parameter Optimization for Encoded Wireless Multimedia Transmissions. IEEE Access, 2018, 6, 22046-22053. | 4.2 | 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. Electronics (Switzerland), 2021, 10, 3026. | 3.1 | 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. IEEE Access, 2019, 7, 92642-92650. | 4.2 | 16 |
| 44 | Comparative Analysis of Classifiers for Developing an Adaptive Computer-Assisted EEG Analysis System for Diagnosing Epilepsy. BioMed Research International, 2015, 2015, 1-14. | 1.9 | 15 |
| 45 | Determination of Optimum Segmentation Schemes for Pattern Recognition-Based Myoelectric Control: A Multi-Dataset Investigation. IEEE Access, 2020, 8, 90862-90877. | 4.2 | 15 |
| 46 | Conventional analysis of trial-by-trial adaptation is biased: Empirical and theoretical support using a Bayesian estimator. PLoS Computational Biology, 2018, 14, e1006501. | 3.2 | 14 |
| 47 | Adaptation of Hybrid FSO/RF Communication System Using Puncturing Technique. Radioengineering, 2016, 25, 644-651. | 0.6 | 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. Energies, 2022, 15, 4862. | 3.1 | 13 |
| 49 | Review of Fiducial and Non-Fiducial Techniques of Feature Extraction in ECG based Biometric Systems. Indian Journal of Science and Technology, 2016, 9, . | 0.7 | 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. Sensors, 2020, 20, 3385. | 3.8 | 12 |
| 52 | Neural network predictive control of vibrations in tall structure: An experimental controlled vision. Computers and Electrical Engineering, 2021, 89, 106940. | 4.8 | 12 |
| 53 | 4G: The future mobile technology. , 2008, , . | | 11 |
| 54 | Economic Analysis for HVDC Transmission System in Pakistan. International Journal of Control and Automation, 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. | 3.1 | 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. | 3.5 | 10 |
| 58 | Performance Improvement in Lifetime and Throughput of LEACH Protocol. <i>Indian Journal of Science and Technology</i> , 2016, 9, . | 0.7 | 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, . | 0.7 | 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. | 2.5 | 8 |
| 62 | MTDC Grids: A Metaheuristic Solution for Nonlinear Control. <i>Energies</i> , 2022, 15, 4263. | 3.1 | 8 |
| 63 | Direct Model Reference Adaptive Control of a Boost Converter for Voltage Regulation in Microgrids. <i>Energies</i> , 2022, 15, 5080. | 3.1 | 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. | 3.8 | 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. | 3.1 | 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. | 3.1 | 7 |
| 70 | A Finite-Time Robust Distributed Cooperative Secondary Control Protocol for Droop-Based Islanded AC Microgrids. <i>Energies</i> , 2021, 14, 2936. | 3.1 | 7 |
| 71 | Link Adaptation for Maximizing MI of Hybrid Optical/RF Communication System. <i>Procedia Computer Science</i> , 2017, 110, 282-289. | 2.0 | 6 |
| 72 | Photo detector-based indoor positioning systems variants: A new look. <i>Computers and Electrical Engineering</i> , 2020, 83, 106607. | 4.8 | 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, . | 2.4 | 5 |
| 77 | Intelligent Machine Vision Based Modeling and Positioning System in Sand Casting Process. Advances in Materials Science and Engineering, 2017, 2017, 1-11. | 1.8 | 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. | 3.1 | 5 |
| 80 | A Machine Learning-Based Robust State of Health (SOH) Prediction Model for Electric Vehicle Batteries. Electronics (Switzerland), 2022, 11, 1216. | 3.1 | 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, . | 0.7 | 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. | 2.5 | 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. | 2.5 | 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. | 4.6 | 4 |

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| 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. | 1.1 | 3 |
| 93 | LQR Based Training of Adaptive Neuro-Fuzzy Controller. Smart Innovation, Systems and Technologies, 2016, , 311-322. | 0.6 | 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. | 3.1 | 3 |
| 96 | Effect of Project Management Practices on Project Success in Make-to-Order Manufacturing Organizations. Indian Journal of Science and Technology, 2016, 9, . | 0.7 | 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 Ship's Mast Structure using Effective Mass Participation Factor. Indian Journal of Science and Technology, 2016, 9, . | 0.7 | 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. | 5.4 | 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. | 2.2 | 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. | 0.3 | 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. | 3.1 | 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. | 1.4 | 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. | 5.4 | 0 |