

# Mohsin Jamil

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98  
papers

3,343  
citations

21  
h-index

57  
g-index

133  
ext. papers

4,241  
ext. citations

2.6  
avg, IF

5.7  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 98 | Regression Model-Based Short-Term Load Forecasting for University Campus Load. <i>IEEE Access</i> , <b>2022</b> , 10, 8891-8905  | 3.5 | 4         |
| 97 | A Transformerless AC-AC Converter with Improved Power Quality Employed to Step-Down Power Frequency at Output. <i>Energies</i> , <b>2022</b> , 15, 667   | 3.1 | 1         |
| 96 | Investigation of the Power Quality Concerns of Input Current in Single-Phase Frequency Step-Down Converter. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 3663                                 | 2.6 | 0         |
| 95 | A Machine Learning-Based Robust State of Health (SOH) Prediction Model for Electric Vehicle Batteries. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 1216   | 2.6 | 2         |
| 94 | Technical Assessment of Hybrid HVDC Circuit Breaker Components under M-HVDC Faults. <i>Energies</i> , <b>2021</b> , 14, 8148   | 3.1 | 2         |
| 93 | An Energy Management System of Campus Microgrids: State-of-the-Art and Future Challenges. <i>Energies</i> , <b>2021</b> , 14, 6525   | 3.1 | 17        |
| 92 | Predicting Risk of Antenatal Depression and Anxiety Using Multi-Layer Perceptrons and Support Vector Machines. <i>Journal of Personalized Medicine</i> , <b>2021</b> , 11,                                 | 3.6 | 2         |
| 91 | Feedback-Linearization-Based Fuel-Cell Adaptive-Control Paradigm in a Microgrid Using a Wavelet-Entrenched NeuroFuzzy Framework. <i>Energies</i> , <b>2021</b> , 14, 1850                                  | 3.1 | 3         |
| 90 | A Finite-Time Robust Distributed Cooperative Secondary Control Protocol for Droop-Based Islanded AC Microgrids. <i>Energies</i> , <b>2021</b> , 14, 2936   | 3.1 | 5         |
| 89 | Leveraging ANN and LDA Classifiers for Characterizing Different Hand Movements Using EMG Signals. <i>Arabian Journal for Science and Engineering</i> , <b>2021</b> , 46, 1761-1769                         | 2.5 | 6         |
| 88 | Neural network predictive control of vibrations in tall structure: An experimental controlled vision. <i>Computers and Electrical Engineering</i> , <b>2021</b> , 89, 106940                               | 4.3 | 3         |
| 87 | 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> , <b>2021</b> , 7, 5733-5746  | 4.6 | 7         |
| 86 | Techno-Economic Design of a Combined Heat and Power Microgrid for a Remote Community in Newfoundland Canada. <i>IEEE Access</i> , <b>2021</b> , 9, 91548-91563   | 3.5 | 3         |
| 85 | Optimal Energy Management of a Campus Microgrid Considering Financial and Economic Analysis with Demand Response Strategies. <i>Energies</i> , <b>2021</b> , 14, 8501                                      | 3.1 | 5         |
| 84 | Effective Voting Ensemble of Homogenous Ensembling with Multiple Attribute-Selection Approaches for Improved Identification of Thyroid Disorder. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 3026 | 2.6 | 1         |
| 83 | . <i>IEEE Access</i> , <b>2020</b> , 8, 90862-90877  | 3.5 | 6         |
| 82 | A Multiday Evaluation of Real-Time Intramuscular EMG Usability with ANN. <i>Sensors</i> , <b>2020</b> , 20,  | 3.8 | 4         |

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|----|--|-----|----|
| 81 | Impact of an Energy Monitoring System on the Energy Efficiency of an Automobile Factory: A Case Study. <i>Energies</i> , <b>2020</b> , 13, 2577  | 3.1 | 0  |
| 80 | Skin Lesion Segmentation from Dermoscopic Images Using Convolutional Neural Network. <i>Sensors</i> , <b>2020</b> , 20,  | 3.8 | 30 |
| 79 | Performance Evaluation of Convolutional Neural Network for Hand Gesture Recognition Using EMG. <i>Sensors</i> , <b>2020</b> , 20,  | 3.8 | 34 |
| 78 | Design of Robust Higher-Order Repetitive Controller Using Phase Lead Compensator. <i>IEEE Access</i> , <b>2020</b> , 8, 30603-30614  | 3.5 | 14 |
| 77 | Photo detector-based indoor positioning systems variants: A new look. <i>Computers and Electrical Engineering</i> , <b>2020</b> , 83, 106607   | 4.3 | 2  |
| 76 | Investigation of Photovoltaic Grid System under Non-Uniform Irradiance Conditions. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1512  | 2.6 | 2  |
| 75 | Brain Tumour Image Segmentation Using Deep Networks. <i>IEEE Access</i> , <b>2020</b> , 8, 153589-153598   | 3.5 | 12 |
| 74 | Evaluation of windowing techniques for intramuscular EMG-based diagnostic, rehabilitative and assistive devices. <i>Journal of Neural Engineering</i> , <b>2020</b> ,  | 5   | 3  |
| 73 | 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> , <b>2019</b> , 32, e2590 | 1   | 12 |
| 72 | Regression convolutional neural network for improved simultaneous EMG control. <i>Journal of Neural Engineering</i> , <b>2019</b> , 16, 036015   | 5   | 51 |
| 71 | Multiday Evaluation of Techniques for EMG-Based Classification of Hand Motions. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2019</b> , 23, 1526-1534   | 7.2 | 45 |
| 70 | Optimal Power Flow and Unified Control Strategy for Multi-Terminal HVDC Systems. <i>IEEE Access</i> , <b>2019</b> , 7, 92642-92650   | 3.5 | 9  |
| 69 | A no-reference framework for evaluating video quality streamed through wireless network. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , <b>2019</b> , 27, 3383-3399                                      | 0.9 |    |
| 68 | On the robustness of real-time myoelectric control investigations: a multiday FittsSlaw approach. <i>Journal of Neural Engineering</i> , <b>2019</b> , 16, 026003  | 5   | 15 |
| 67 | The effect of time on EMG classification of hand motions in able-bodied and transradial amputees. <i>Journal of Electromyography and Kinesiology</i> , <b>2018</b> , 40, 72-80   | 2.5 | 29 |
| 66 | Power line noise removal from ECG signal using notch, band stop and adaptive filters <b>2018</b> ,   |     | 7  |
| 65 | An appraisal of nodules detection techniques for lung cancer in CT images. <i>Biomedical Signal Processing and Control</i> , <b>2018</b> , 41, 140-151   | 4.9 | 23 |
| 64 | A Protection Scheme for Multi-Terminal VSC-HVDC Transmission Systems. <i>IEEE Access</i> , <b>2018</b> , 6, 3159-3166  |     | 36 |

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|----|--|-----|----|
| 63 | H.264 Encoder Parameter Optimization for Encoded Wireless Multimedia Transmissions. <i>IEEE Access</i> , <b>2018</b> , 6, 22046-22053  | 3.5 | 13 |
| 62 | A Compact Rectenna System With High Conversion Efficiency for Wireless Energy Harvesting. <i>IEEE Access</i> , <b>2018</b> , 6, 35857-35866  | 3.5 | 46 |
| 61 | Multiday EMG-Based Classification of Hand Motions with Deep Learning Techniques. <i>Sensors</i> , <b>2018</b> , 18,  | 3.8 | 85 |
| 60 | Designing PID Controller Based Semi-active Suspension System Using MATLAB Simulink. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2018</b> , 282-295 | 0.2 |    |
| 59 | Solving the Problem of Economic Load Dispatch for a Small Scale Power System Using a Novel Hybrid PSO-GSA Algorithm <b>2018</b> ,  |     | 2  |
| 58 | Grid Interconnection of Micro Hydro Power Plants: Major Requirements, Key Issues and Challenges <b>2018</b> ,  |     | 1  |
| 57 | Conventional analysis of trial-by-trial adaptation is biased: Empirical and theoretical support using a Bayesian estimator. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1006501                                     | 5   | 8  |
| 56 | Design Considerations of Stand-Alone Solar Photovoltaic Systems <b>2018</b> ,  |     | 12 |
| 55 | Electric Motors and Speed Sensorless Control for Electric and Hybrid Electric Vehicles: A Review <b>2018</b> ,   |     | 4  |
| 54 | Automatic Power Factor Correction for Single Phase Domestic Loads by Means of Arduino Based TRIAC Control of Capacitor Banks <b>2018</b> ,   |     | 3  |
| 53 | Multi-Objective Optimization of VSC Stations in Multi-Terminal VSC-HVdc Grids, Based on PSO. <i>IEEE Access</i> , <b>2018</b> , 6, 62995-63004   | 3.5 | 17 |
| 52 | Real-time, simultaneous myoelectric control using a convolutional neural network. <i>PLoS ONE</i> , <b>2018</b> , 13, e0203835   | 3.7 | 36 |
| 51 | Classification of Overt and Covert Speech for Near-Infrared Spectroscopy-Based Brain Computer Interface. <i>Sensors</i> , <b>2018</b> , 18,  | 3.8 | 3  |
| 50 | Maximizing Throughput of Hybrid FSO-RF Communication System: An Algorithm. <i>IEEE Access</i> , <b>2018</b> , 6, 30039-30048   | 3.5 | 21 |
| 49 | A Novel Dual Ultrawideband CPW-Fed Printed Antenna for Internet of Things (IoT) Applications. <i>Wireless Communications and Mobile Computing</i> , <b>2018</b> , 2018, 1-9  | 1.9 | 12 |
| 48 | Intelligent Machine Vision Based Modeling and Positioning System in Sand Casting Process. <i>Advances in Materials Science and Engineering</i> , <b>2017</b> , 2017, 1-11  | 1.5 | 4  |
| 47 | Link Adaptation for Maximizing MI of Hybrid Optical/RF Communication System. <i>Procedia Computer Science</i> , <b>2017</b> , 110, 282-289   | 1.6 | 4  |
| 46 | Adaptive hybrid free space optical/radio frequency communication system. <i>Telecommunication Systems</i> , <b>2017</b> , 65, 117-126  | 2.3 | 16 |

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|----|--|-----|----|
| 45 | Power Dispatch and Voltage Control in Multiterminal HVDC Systems: A Flexible Approach. <i>IEEE Access</i> , <b>2017</b> , 5, 24608-24616   | 3.5 | 24 |
| 44 | Optimizing Availability of a Framework in Series Configuration Utilizing Markov Model and Monte Carlo Simulation Techniques. <i>Symmetry</i> , <b>2017</b> , 9, 96                               | 2.7 | 2  |
| 43 | Economic Analysis for HVDC Transmission System in Pakistan. <i>International Journal of Control and Automation</i> , <b>2017</b> , 10, 29-38   | 1.9 | 5  |
| 42 | Review of Fiducial and Non-Fiducial Techniques of Feature Extraction in ECG based Biometric Systems. <i>Indian Journal of Science and Technology</i> , <b>2016</b> , 9,                          | 1   | 10 |
| 41 | Formal modelling of TCP congestion control mechanisms ECN/RED and SAP-LAW in the presence of UDP traffic. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2016</b> , 2016, | 3.2 | 4  |
| 40 | Automated Scene Analysis by Image Feature Extraction <b>2016</b> ,   |     | 1  |
| 39 | LQR Based Training of Adaptive Neuro-Fuzzy Controller. <i>Smart Innovation, Systems and Technologies</i> , <b>2016</b> , 311-322   | 0.5 | 1  |
| 38 | Jib System Control of Industrial Robotic Three Degree of Freedom Crane using a Hybrid Controller. <i>Indian Journal of Science and Technology</i> , <b>2016</b> , 9,                             | 1   | 6  |
| 37 | Performance Improvement in Lifetime and Throughput of LEACH Protocol. <i>Indian Journal of Science and Technology</i> , <b>2016</b> , 9,   | 1   | 2  |
| 36 | Design and Analysis of Second Order Passive Filters for Grid Connected Inverter with Series and Parallel Damping Resistors. <i>Indian Journal of Science and Technology</i> , <b>2016</b> , 9,   | 1   | 2  |
| 35 | Energy Optimization in Smart Homes Using Customer Preference and Dynamic Pricing. <i>Energies</i> , <b>2016</b> , 9, 593   | 3.1 | 30 |
| 34 | Adaptation of Hybrid FSO/RF Communication System Using Puncturing Technique. <i>Radioengineering</i> , <b>2016</b> , 25, 644-651   | 0.8 | 10 |
| 33 | Performance analysis of parabolic trough collectors for Pakistan using mathematical and computational models <b>2016</b> ,   |     | 1  |
| 32 | Robust Repetitive Current Control of Two-Level Utility-Connected Converter using LCL Filter. <i>Arabian Journal for Science and Engineering</i> , <b>2015</b> , 40, 2653-2670                    |     | 2  |
| 31 | Text Detection and Recognition for Semantic Mapping in Indoor Navigation <b>2015</b> ,   |     | 1  |
| 30 | Delay-Sensitive Routing Schemes for Underwater Acoustic Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , <b>2015</b> , 11, 532676                                  | 1.7 | 37 |
| 29 | Two Level Voltage Source Grid Connected Inverter for Solar Photovoltaic System. <i>International Journal of Control and Automation</i> , <b>2015</b> , 8, 391-398                                | 1.9 | 1  |
| 28 | Modeling Routing Overhead of Reactive Protocols at Link Layer and Network Layer in Wireless Multihop Networks. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-14            | 1.1 | 3  |

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|----|---|-----|------|
| 27 | Comparative analysis of classifiers for developing an adaptive computer-assisted EEG analysis system for diagnosing epilepsy. <i>BioMed Research International</i> , <b>2015</b> , 2015, 638036 | 3   | 10   |
| 26 | Modeling mobility and psychological stress based human postural changes in wireless body area networks. <i>Computers in Human Behavior</i> , <b>2015</b> , 51, 1042-1053                        | 7.7 | 21   |
| 25 | Do Cost Functions for Tracking Error Generalize across Tasks with Different Noise Levels?. <i>PLoS ONE</i> , <b>2015</b> , 10, e0136251   | 3.7 | 3    |
| 24 | IMPROVED METHOD FOR STEREO VISION-BASED HUMAN DETECTION FOR A MOBILE ROBOT FOLLOWING A TARGET PERSON. <i>South African Journal of Industrial Engineering</i> , <b>2015</b> , 26, 102            | 1.7 | 2    |
| 23 | Face and eye detection in images using skin color segmentation and circular hough transform <b>2014</b> ,   |     | 1    |
| 22 | Modeling, control of a two-wheeled self-balancing robot <b>2014</b> ,   |     | 12   |
| 21 | <b>2014</b> ,   |     | 2    |
| 20 | Performance analysis of proactive and reactive protocols in mobile Ad-hoc networking: A simulation based analysis <b>2014</b> ,   |     | 1    |
| 19 | A comparison of various robotic control architectures for autonomous navigation of mobile robots <b>2014</b> ,  |     | 4    |
| 18 | Improvement in solar panel efficiency using solar concentration by simple mirrors and by cooling <b>2014</b> ,  |     | 19   |
| 17 | Maximizing Throughput of Free Space Communication Systems Using Puncturing Technique. <i>Arabian Journal for Science and Engineering</i> , <b>2014</b> , 39, 8925-8933                          |     | 1    |
| 16 | Robust hybrid normalized convolution and forward error correction in image reconstruction <b>2014</b> ,   |     | 1    |
| 15 | Design and analysis of repetitive controllers for grid connected inverter considering plant bandwidth for interfacing renewable energy sources <b>2014</b> ,                                    |     | 2    |
| 14 | <b>2014</b> ,   |     | 6    |
| 13 | Myoelectric Prostheses and Targeted Reinnervation <b>2013</b> , 291-310   |     | 2    |
| 12 | Human tracking by a mobile robot using 3D features <b>2013</b> ,  |     | 3    |
| 11 | Repetitive current control of an interleaved grid-connected inverter <b>2012</b> ,  |     | 10   |
| 10 | Resolving the limb position effect in myoelectric pattern recognition. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2011</b> , 19, 644-51                     | 4.8 | 24.2 |

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|---|--|-----|------|
| 9 | Electromyogram pattern recognition for control of powered upper-limb prostheses: state of the art and challenges for clinical use. <i>Journal of Rehabilitation Research and Development</i> , <b>2011</b> , 48, 643-59  |     | 561  |
| 8 | Fluctuating emg signals: investigating long-term effects of pattern matching algorithms. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 6357-60 | 0.9 | 61   |
| 7 | Robust repetitive feedback control of a three-phase grid connected inverter <b>2010</b> ,  |     | 5    |
| 6 | 4G: The future mobile technology <b>2008</b> ,   |     | 5    |
| 5 | A training strategy to reduce classification degradation due to electrode displacements in pattern recognition based myoelectric control. <i>Biomedical Signal Processing and Control</i> , <b>2008</b> , 3, 175-180   | 4.9 | 192  |
| 4 | <b>2007</b> ,  |     | 1    |
| 3 | Myoelectric Control of Powered Upper-Limb Prostheses <b>2006</b> ,   |     | 1    |
| 2 | Continuous multifunction myoelectric control using pattern recognition. <i>Technology and Disability</i> , <b>2003</b> , 15, 95-103  | 0.7 | 59   |
| 1 | A robust, real-time control scheme for multifunction myoelectric control. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2003</b> , 50, 848-54  | 5   | 1141 |