

# Syed Omer Gilani

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/313248/publications.pdf>

Version: 2024-02-01

74  
papers

1,206  
citations

430442

18  
h-index

433756

31  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1133  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiday EMG-Based Classification of Hand Motions with Deep Learning Techniques. <i>Sensors</i> , 2018, 18, 2497.	2.1	146
2	Skin Lesion Segmentation from Dermoscopic Images Using Convolutional Neural Network. <i>Sensors</i> , 2020, 20, 1601.	2.1	77
3	Performance Evaluation of Convolutional Neural Network for Hand Gesture Recognition Using EMG. <i>Sensors</i> , 2020, 20, 1642.	2.1	76
4	Brain Tumour Image Segmentation Using Deep Networks. <i>IEEE Access</i> , 2020, 8, 153589-153598.	2.6	60
5	Improving fuel cell performance via optimal parameters identification through fuzzy logic based-modeling and optimization. <i>Energy</i> , 2020, 204, 117976.	4.5	49
6	A Protection Scheme for Multi-Terminal VSC-HVDC Transmission Systems. <i>IEEE Access</i> , 2018, 6, 3159-3166.	2.6	48
7	A Region-Based Deep Level Set Formulation for Vertebral Bone Segmentation of Osteoporotic Fractures. <i>Journal of Digital Imaging</i> , 2020, 33, 191-203.	1.6	46
8	Stacked Sparse Autoencoders for EMG-Based Classification of Hand Motions: A Comparative Multi Day Analyses between Surface and Intramuscular EMG. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1126.	1.3	45
9	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
10	Power Dispatch and Voltage Control in Multiterminal HVDC Systems: A Flexible Approach. <i>IEEE Access</i> , 2017, 5, 24608-24616.	2.6	33
11	Maximizing Throughput of Hybrid FSO-RF Communication System: An Algorithm. <i>IEEE Access</i> , 2018, 6, 30039-30048.	2.6	29
12	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
13	Melanoma segmentation using deep learning with test-time augmentations and conditional random fields. <i>Scientific Reports</i> , 2022, 12, 3948.	1.6	27
14	Coherency Based Spatio-Temporal Saliency Detection for Video Object Segmentation. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2014, 8, 454-462.	7.3	26
15	Vision-Based Projected Tabletop Interface for Finger Interactions. , 2007, , 49-58.		25
16	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
17	Rehabilitation of Upper Limb Motor Impairment in Stroke: A Narrative Review on the Prevalence, Risk Factors, and Economic Statistics of Stroke and State of the Art Therapies. <i>Healthcare (Switzerland)</i> , 2022, 10, 190.	1.0	23
18	Design of Robust Higher-Order Repetitive Controller Using Phase Lead Compensator. <i>IEEE Access</i> , 2020, 8, 30603-30614.	2.6	22

#	ARTICLE	IF	CITATIONS
19	Automatic detection of pathological myopia using machine learning. Scientific Reports, 2021, 11, 16570.	1.6	22
20	A Novel 2-D Current Signal-Based Residual Learning With Optimized Softmax to Identify Faults in Ball Screw Actuators. IEEE Access, 2020, 8, 115299-115313.	2.6	20
21	H.264 Encoder Parameter Optimization for Encoded Wireless Multimedia Transmissions. IEEE Access, 2018, 6, 22046-22053.	2.6	18
22	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
23	Power line noise removal from ECG signal using notch, band stop and adaptive filters. , 2018, , .		16
24	Optimal Power Flow and Unified Control Strategy for Multi-Terminal HVDC Systems. IEEE Access, 2019, 7, 92642-92650.	2.6	16
25	Determination of Optimum Segmentation Schemes for Pattern Recognition-Based Myoelectric Control: A Multi-Dataset Investigation. IEEE Access, 2020, 8, 90862-90877.	2.6	15
26	Decoding Attempted Hand Movements in Stroke Patients Using Surface Electromyography. Sensors, 2020, 20, 6763.	2.1	14
27	A Robust Scheme of Vertebrae Segmentation for Medical Diagnosis. IEEE Access, 2019, 7, 120387-120398.	2.6	13
28	Adaptive Thresholding Technique for Segmentation and Juxtapleural Nodules Inclusion in Lung Segments. International Journal of Bio-Science and Bio-Technology, 2016, 8, 105-114.	0.2	13
29	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
30	State Space System Modeling of a Quad Copter UAV. Indian Journal of Science and Technology, 2016, 9, .	0.5	12
31	Threshold Parameters Selection for Empirical Mode Decomposition-Based EMG Signal Denoising. Intelligent Automation and Soft Computing, 2021, 27, 799-815.	1.6	12
32	Brain Tumor Extraction from MRI Images using MATLAB. International Journal of Multimedia and Ubiquitous Engineering, 2017, 12, 1-6.	0.3	12
33	Parallel programming of saccades during natural scene viewing: Evidence from eye movement positions. Journal of Vision, 2013, 13, 17-17.	0.1	11
34	Evaluation of windowing techniques for intramuscular EMG-based diagnostic, rehabilitative and assistive devices. Journal of Neural Engineering, 2021, 18, 016017.	1.8	10
35	PET: An eye-tracking dataset for animal-centric Pascal object classes. , 2015, , .		9
36	A Novel Framework to Segment out Cervical Vertebrae. , 2019, , .		9

#	ARTICLE	IF	CITATIONS
37	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
38	A novel approach for classification of hand movements using surface EMG signals. , 2017, , .		8
39	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
40	Classification of Overt and Covert Speech for Near-Infrared Spectroscopy-Based Brain Computer Interface. Sensors, 2018, 18, 2989.	2.1	7
41	Impact of an Energy Monitoring System on the Energy Efficiency of an Automobile Factory: A Case Study. Energies, 2020, 13, 2577.	1.6	7
42	Monocular Vision-based Signer-Independent Pakistani Sign Language Recognition System using Supervised Learning. Indian Journal of Science and Technology, 2016, 9, .	0.5	7
43	Emotion Detection through Facial Feature Recognition. International Journal of Multimedia and Ubiquitous Engineering, 2017, 12, 21-30.	0.3	7
44	Link Adaptation for Maximizing MI of Hybrid Optical/RF Communication System. Procedia Computer Science, 2017, 110, 282-289.	1.2	6
45	Comparative Analysis of Classifiers for EMG Signals. , 2019, , .		6
46	A Low-Cost Device for Measurement of Exhaled Breath for the Detection of Obstructive Lung Disease. Biosensors, 2022, 12, 409.	2.3	6
47	Impact of image appeal on visual attention during photo triaging. , 2013, , .		5
48	Human tracking by a mobile robot using 3D features. , 2013, , .		5
49	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
50	Design and Development of Optimal Control System for Quad Copter UAV. Indian Journal of Science and Technology, 2016, 9, .	0.5	5
51	Reply to Morone, G.; Giansanti, D. Comment on "Anwer et al. Rehabilitation of Upper Limb Motor Impairment in Stroke: A Narrative Review on the Prevalence, Risk Factors, and Economic Statistics of Stroke and State of the Art Therapies. Healthcare 2022, 10, 190". Healthcare (Switzerland), 2022, 10, 847.	1.0	5
52	Open source OCR framework using mobile devices. , 2008, , .		4
53	LQR Based Training of Adaptive Neuro-Fuzzy Controller. Smart Innovation, Systems and Technologies, 2016, , 311-322.	0.5	3
54	The Effect of Eye Movements in Response to Different Types of Scenes Using a Graph-Based Visual Saliency Algorithm. Applied Sciences (Switzerland), 2019, 9, 5378.	1.3	3

#	ARTICLE	IF	CITATIONS
55	Automated Classification of Retinal Diseases in STARE Database Using Neural Network Approach. , 2019, , .		3
56	Decoding of Ankle Joint Movements in Stroke Patients Using Surface Electromyography. Sensors, 2021, 21, 1575.	2.1	3
57	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
58	Evaluation of LDA, QDA and decision trees for multifunctional controlled below elbow prosthetic limb using EMG signals. , 2014, , .		2
59	Optimization of Query Processing Time using Taguchi Method for RFID Data Management. Indian Journal of Science and Technology, 2016, 9, .	0.5	2
60	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
61	Text Detection and Recognition for Semantic Mapping in Indoor Navigation. , 2015, , .		1
62	Automated Scene Analysis by Image Feature Extraction. , 2016, , .		1
63	Comparison of Nonlinear Controllers for Speed Control of DC Motor. , 2018, , .		1
64	Efficient energy utilization in wireless sensor networks: an algorithm. 3C TechnologÃa, 2019, 7, .	0.2	1
65	Predicting Episodic Video Memorability using Deep Features Fusion Strategy. , 2022, , .		1
66	Centre of mass avoidance planner using radius of gyration for Reciprocal Velocity Obstacles. , 2014, , .		0
67	Audio signal's test in designing a cost-effective hearing aid device using a microcontroller. International Journal of Biomedical Engineering and Technology, 2016, 20, 195.	0.2	0
68	Utilizing implicit user cues for multimedia analytics. , 2017, , 219-251.		0
69	Video abstraction inspired by human visual attention models. , 2018, , .		0
70	Dynamic Saliency Model Inspired by Middle Temporal Visual Area: A Spatio-Temporal Perspective. , 2018, , .		0
71	A comparison of lumped parameter models of modified hybrid electromechanical valve actuator. , 2019, , .		0
72	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

#	ARTICLE	IF	CITATIONS
73	Arthritis Identification from Multiple Regions by X-Ray Image Processing. International Journal of Signal Processing, Image Processing and Pattern Recognition, 2017, 10, 23-32.	0.2	0
74	High Throughput Multimodal Neuroimaging for Alzheimer's Disease (AD). International Journal of U- and E- Service, Science and Technology, 2017, 10, 1-8.	0.1	0