Ali Hassan

Professor

College of Electrical & Mechanical Engineering

NUST College of EME , NUST College of EME

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LinkedIn:



About

Dr. Ali Hassan is working as Professor in the College of Electrical & Mechanical Engineering. Dr. Ali Hassan has a PhD in Machine Learning. Dr. Ali Hassan has published 80 research articles & conference papers having a citation count of 976, carried out 2 projects and filed 3 intellectual property.

Qualifications

PhD in Machine Learning University of Southampton , United Kingdom	2008 - 2012
MS in Image Processing NUST, Islamabad , Pakistan	2004 - 2007
BE in Computer Engineering NUST, Islamabad , Pakistan	2000 - 2004
Experience	
Professor College of Electrical & Mechanical Engineering	2022- Present
Associate Professor College of Electrical & Mechanical Engineering	2019 - 2022
Assistant Professor College of Electrical & Mechanical Engineering	2017 - 2019
Assistant Professor College of Electrical & Mechanical Engineering	2015 - 2017
Assistant Professor College of Electrical & Mechanical Engineering	2012 - 2015
Assistant Professor College of Electrical & Mechanical Engineering	2012 - 2012
Lab Demonstrator NUST , NUST Centre for Cyber Technology and Spectrum Management (CCT&SM)	2007 - 2008
Teaching Assistant	2004 - 2006

Gold Medal to UG Project 2015

My co-supervised project titled 'Multi Gig inline protocol analyzer based on software defined networking (SDN)' won the best project award and NUST Gold Medal for the best project for the graduating degree of 2015.

APICTA Silver Merit Award 2013

Asia Pacific ICT Alliance Award 2013 in Hong Kong: Our project i-Hospital won APICTA Silver Merit Award in Research and Development.

Best Student Presentation 2011

Awarded with best student presentation in ISIS Postgraduate Conference, held at Chillworth Manor, Southampton, UK, 2011

Scholarship for PHD 2010

Awarded with scholarship by School of Electronics & Computer Science, University of Southampton, to cover for the third year fee during my PhD 2010-2011

Ambitions Award for 2009 2009

Awarded with Institute of Engineering & Technology Ambitions Award for 2009

Research Projects

National Projects

Al based Smart Gloves 2022

Funding Agency: NGIRI IGNITE Amount: PKR 24,300.00 Status: Completed

Industry 4.0 Process Virtualization System

2019

Funding Agency: HEC Amount: PKR 13,370,000.00 Status: Completed

International Projects

Research Articles

Al-CADS: An Artificial Intelligence based framework for automatic early detection and severity evaluation of coronary artery disease

2025

Michael College All Income Billing

Muhammad Sajid Ali Hassan Dilshad Ahmed Khan Shoab Ahmed Khan Asim Dilawar Bakhshi Sayed Tanveer Abbas Gilani Muhammad Usman Akram

Mustansar Ali Ghazanfar

Biomedical Signal Processing and Control, Volume:106, Article Number: 107705, Pages:10

Impact Factor: 4.9 | Quartile: 1

DOI: https://doi.org/10.1016/j.bspc.2025.107705

A triple-shallow CNN with genetic algorithm channel selection method for classifying EEG complex

2025

limb movements

Beenish Khalid Ali Hassan Muhammad Yasin Muhammad Salman Muhammad Fasih Uddin Butt Wadood Abdul Imran Khan Niazi

Biomedical Signal Processing and Control, Volume:105, Article Number: 107541, Pages: 13

Impact Factor: 4.9 | Quartile: 1 | Citations: 1 DOI: https://doi.org/10.1016/j.bspc.2025.107541

JamBIT: RL-based framework for disrupting adversarial information in battlefields

2025

Muhammad Salman Taehong Lee Ali Hassan Muhammad Yasin Kiran Khurshid Youngtae Noh

Ad Hoc Networks, Volume 167, Article Number 103697

Impact Factor: 4.400 | Quartile: 1

DOI: https://doi.org/10.1016/j.adhoc.2024.103697

AI-CADR: Artificial Intelligence Based Risk Stratification of Coronary Artery Disease using Novel Non-

2024

invasive Biomarkers

Muhammad Sajid Ali Hassan Dilshad Ahmed Khan Shoab Ahmed Khan Asim Dilawar Bakhshi Muhammad Usman Akram Mishal Babar Farhan Hussain Wadood Abdul

IEEE Journal of Biomedical and Health Informatics, Volume:28, Issue:12, Page(s):7543-7552

Impact Factor: 6.700 | Quartile: 1 | Citations: 3 DOI: https://doi.org/10.1109/JBHI.2024.3453911

UMMARA BIBI MARKUKI MAZITAK DILSTAD SABIK MUTAMMAD FASIH UDDIN BUTT AH HASSAH MUSTANSAK ALI GHAZANFAR	I ARSHAD ALI KHAN
WADOOD ABDUL	
IEEE Access , Volume:12, Page(s):139113-139128	
Impact Factor: 3.4 Quartile: 2 Citations: 7	
DOI: doi.org/10.1109/ACCESS.2024.3465631	
Enhancing Signature Verification Using Triplet Siamese Similarity Networks in Digital Documents	2024
Sara Tehsin Ali Hassan Inzamam Mashood Nasir Norma Latif Fitriyani Muhammad Syafrudin Farhan Riaz	
Mathematics , Volume 12(17), Article Number 2757	
Impact Factor: 2.300 Quartile: 1 Citations: 7	
DOI: https://doi.org/10.3390/math12172757	
Applications of Pruning Methods in Natural Language Processing	2024
Marva Touheed Urooj Zubair Dilshad Sabir Ali Hassan Muhammad Fasih Uddin Butt Farhan Riaz Wadood Abdul Rashid Ayub	
IEEE Access , Volume 12, Pages 89418-89438	
Impact Factor: 3.400 Quartile: 2 Citations: 2	
DOI: 10.1109/ACCESS.2024.3411776	
Enhanced Spatial Stream of Two-Stream Network Using Optical Flow for Human Action Recognition	2023
Shahbaz Khan Ali Hassan Farhan Hussain Agib Perwaiz Maazen Alsabaan Farhan Riaz Wadood Abdul	2020
Applied Sciences, Volume 13, Issue 14, Article Number 8003	
Impact Factor: 2.7 Quartile: 2 Citations: 10	
DOI: https://doi.org/10.3390/app13148003	
CoRAE: Energy Compaction-Based Correlation Pattern Recognition Training Using AutoEncoder	2023
Muhammad Dilshad Sabir Muhammad Fasih uddin Butt Ali Hassan Saad Rehman Mehwish Mehmood Abdulah Jeza Aljohani	2023
·	
IEEE Access , Volume:11, Page: 28014-28033	
Impact Factor: 3.476 Quartile: 2 Citations: 5	
DOI: 10.1109/ACCESS.2023.3253964	
FIPAM: Fuzzy Inference based Placement and Migration Approach for NFV-based IoTs	2022
Muhammad Arslan Tariq Muhammad Umar Farooq Muhammad Zeeshan Ali Hassan Adnan Akhunzada	
IEEE Transactions on Network and Service Management, Volume 19, Issue 4, Pages 4298-4309	
Impact Factor: 5.3 Quartile: 2 Citations: 7	
DOI: 10.1109/TNSM.2022.3145658	
Intelligent framework for automated failure prediction, detection, and classification of mission critical	2022
autonomous flights	
Muhammad Waqas Ahmad Muhammad Usman Akram Khurram Hameed Rashid Ahmad Ali Hassan	
ISA Transactions, Volume 129, Part A, Pages 355-371	
Impact Factor: 5.911 Quartile: 1 Citations: 29	
DOI: https://doi.org/10.1016/j.isatra.2022.01.014	
A Knowledge Base Technique for Detecting Multiple High-Speed Serial Interface Synchronization	2022
Errors in Multiprocessor-Based Real-Time Embedded Systems	
Sabeen Masood Shoab Ahmed Khan Ali Hassan Fatima Khalique	
Electronics, Volume:11, Issue:18, Article Number 2945	
Impact Factor: 2.690 Quartile: 3	
DOI: doi.org/10.3390/electronics11182945	
IoTAuth: IoT Sensor Data Analytics for User Authentication Using Discriminative Feature Analysis	2022
Samera Batool Ali Hassan Muazzam A. Khan Khattak Ahsan Shahzad Muhammad Umar Farooq	
IEEE Access , Volume 10, Pages 59115-59124	
Impact Factor: 3.476 Quartile: 2 Citations: 8	
DOI: 10.1109/ACCESS.2022.3178635	
A Decision Support Framework for National Crop Production Planning	2021
Nida Rasheed Shoab Ahmed Khan Ali Hassan Saria Safdar	
IEEE Access , Volume 9, Pages 133402-133415	
Impact Factor: 3.367 Quartile: 2 Citations: 13	
DOI: 10.1109/ACCESS.2021.3115801	
A novel framework for testing high-speed serial interfaces in multiprocessor based real-time	2021
embedded system	2021
Sabeen Masood Shoab Ahmed Khan Ali Hassan Urooj Fatima	

Applied Sciences, Volume 11, Issue 16, Article Number 7465

Impact Factor: 2.838 | Quartile: 2 | Citations: 3 DOI: https://doi.org/10.3390/app11167465

TiQSA: Workload Minimization in Convolutional Neural Networks Using Tile Quantization and

2021

Symmetry Approximation

Muhammmad Abdullah Hanif Ali Hassan Saad Rehman Muhammad Shafique Dilshad Sabir

IEEE Access , Volume 9, Pages 53647-53668 **Impact Factor:** 3.476 | **Quartile:** 2 | **Citations:** 4

DOI: 10.1109/ACCESS.2021.3069906

A Framework for Classification of Gabor Based Frequency Selective Bone Radiographs Using CNN

2021

Rehan Nemati Farhan Riaz Ali Hassan Saad Rehman Muhammad Ajmal Azad Muhammad Abbas Farhan Hussain Saddaf Rubab

Arabian Journal of Science and Engineering, Volume 46, Pages 4141-4152

Impact Factor: 2.807 | Quartile: 2 | Citations: 2 DOI: https://doi.org/10.1007/s13369-021-05339-7

Weight Quantization Retraining for Sparse and Compressed Spatial Domain Correlation Filters

2021

Dilshad Sabir Muhammad Abdullah Hanif Ali Hassan Saad Rehman Muhammad Shafique

Electronics, Volume 10(3), Article Number 351

Impact Factor: 2.690 | Quartile: 3 | Citations: 2

DOI: https://doi.org/10.3390/electronics10030351

Authentication of Remote IoT Users Based on Deeper Gait Analysis of Sensor Data

2020

Samera Batool Ali Hassan Nazar Abbas Saqib Muazam Khattak

 $\begin{tabular}{ll} \textit{IEEE Access} &, Volume 8, Pages 101784-101796 \\ \hline \textbf{Impact Factor: } 3.367 \mid \textbf{Quartile: } 2 \mid \textbf{Citations: } 16 \\ \hline \end{tabular}$

DOI: 10.1109/ACCESS.2020.2998412

Gaussian Mixture Model Based Probabilistic Modeling of Images for Medical Image Segmentation

2020

Farhan Riaz Ali Hassan Saad Rehman Muhammad Ajmal Rehan Hafiz Naif Radi Aljohani Raheel Nawaz Rupert Young Miguel Coimbra

IEEE Access , Volume 8, Pages 16846-16856
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Approximate Proximal Gradient-Based Correlation Filter for Target Tracking in Videos: A Unified

2019

Approach

Aimal Khan Haris Masood Saad Rehman Farhan Riaz Ali Hassan Muhammad Abbas Arabian Journal for Science and Technology, Volume 44, Issue 11, Pages 9363-9380

Impact Factor: 1.711 | Quartile: 2 | Citations: 7

DOI: 10.1007/s13369-019-03861-3

Self-Paced Online vs. Cue-Based Offline Brain-Computer Interfaces for Inducing Neural Plasticity

2019

Ali Hassan Mads Jochumsen Muhammad Samran Navid Rasmus Wiberg Nedergaard Nada Signal Usman Rashi Heidi Haavik Denise Taylor Imran Khan

Niazi

Brain Sciences, Volume: 9, Issue: 6, Article Number: 127

Impact Factor: 3.332 | Quartile: 2 | Citations: 17

DOI: 10.3390/brainsci9060127

Pervasive blood pressure monitoring using Photoplethysmogram (PPG) sensor

2019

Ali Hassan Farhan Riaz Muhammad Ajmal Azad Junaid Arshad Muhammad Imran Saad Rehman

Future Generation Computer Systems, Volume 98, Pages 120—130 Impact Factor: 6.125 | Quartile: 1 | Citations: 65

DOI: https://doi.org/10.1016/j.future.2019.02.032

Movement intention detection in adolescents with cerebral palsy from single-trial EEG

2018

Mads Jochumsen Muhammad Shafique Ali Hassan Imran Khan Niazi

Journal of Neural Engineering, NULL

Impact Factor: 4.551 | Quartile: 1 | Citations: 21

DOI: 10.1088/1741-2552/aae4b8

Efficient Prediction and Classification of Epileptic Seizures Using EEG Data Based on Univariate Linear

2018

Features

Syed Muhammad Usman Ali Hassan

Journal of Computers, Volume 13, Number 6, Pages 616-621

DOI: doi: 10.17706/jcp.13.6.616-621 Efficient FIR Filter Implementations for Multichannel BCIs Using Xilinx System Generator 2018 Usman Ghani Muhammad Wasim Umar Shahbaz Khan Muhammad Mubasher Saleem Ali Hassan Nasir Rashid Mohsin Islam Tiwana Amir Hamza Amir Kashif BioMed Research International, Volume 2018, Article ID 9861350, 9 pages Impact Factor: 2.197 | Quartile: 3 | Citations: 6 DOI: https://doi.org/10.1155/2018/9861350 Self-Organizing Hierarchical Particle Swarm Optimization of Correlation Filters for Object Recognition 2017 Sara Tehsin Saad Rehman Muhammad Omer Bin Saeed Farhan Riaz Ali Hassan Muhammad Abbas Rupert Young Mohammad S. Alam IEEE Access, Volume 5, Pages 24495-24502 Impact Factor: 3.557 | Quartile: 1 | Citations: 24 DOI: 10.1109/ACCESS.2017.2762354 Content-Adaptive Region-Based Color Texture Descriptors for Medical Images 2017 Rida Nisar Mario Dinis-Ribeiro Miguel Tavares Coimbra Farhan Riaz Ali Hassan IEEE Journal of Biomedical and Health Informatics, Volume: 21, Issue: 01, Pages 162-171 Impact Factor: 3.85 | Quartile: 1 | Citations: 30 DOI: 10.1109/JBHI.2015.2492464 2016 Pulmonary Nodules Detection and Classification Using Hybrid Features from Computerized **Tomographic Images** Sheeraz Akram Muhammad Younus Javed Usman Akram Usman Qamar Ali Hassan Journal of Medical Imaging and Health Informatics, Volume 6, Number 1, Pages 252-259 Impact Factor: 0.621 | Quartile: 4 | Citations: 41 DOI: 10.1166/jmihi.2016.1600 EMD-Based Temporal and Spectral Features for the Classification of EEG Signals using Supervised 2016 Learning Farhan Riaz Ali Hassan Saad Rehman Imran Khan Niazi Kim Dremstrup IEEE Transactions on Neural Systems and Rehabilitation Engineering, Volume: 24 Issue: 1 Pages: 28-35 Impact Factor: 3.41 | Quartile: 1 | Citations: 325 DOI: 10.1109/TNSRE.2015.2441835 A scalable architecture for geometric correction of multi-projector display systems 2015 Kamran Babar Rehan Hafiz Khawar Khurshid Awais M. Kamboh Ali Hassan Farhan Riaz Byeungwoo Jeon Displays, Volume 40, Pages 104-112 Impact Factor: 1.903 | Quartile: 1 | Citations: 3 DOI: 10.1016/j.displa.2015.05.009 Artificial Neural Network based Classification of Lungs Nodule using Hybrid Features from 2015 **Computerized Tomographic Images** Sheeraz Akram Muhammad Younus Javed Usman Qamar Aasia Khanum Ali Hassan Applied Mathematics & Information Sciences, Volume 9, No. 1, Pages 183-195 Impact Factor: - | Citations: 32 DOI: http://dx.doi.org/10.12785/amis/090124 2014

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2013

Scale and rotation invariant texture classification using covariate shift methodology

Ali Hassan Farhan Riaz Arsalan Shaukat

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DOI: 10.1109/LSP.2014.2302576

Rotation and scale invariant texture classification by compensating for distribution changes using covariate shift in uniform local binary patterns

Ali Hassan Farhan Riaz Saad Rehman

Electronics Letters, Volume: 50, Issue:1, Pages:27-28

Impact Factor: 0.93 | Quartile: 3 | Citations: 3

DOI: 10.1049/el.2013.2578

On Acoustic Emotion Recognition: Compensating for Covariate Shift

Ali Hassan R I Damper M Niranjan

IEEE TRANSACTIONS ON AUDIO, SPEECH, AND LANGUAGE PROCESSING, Volume: 21, Issue: 7, Pages: 1458-1468

Impact Factor: 2.625 | Quartile: 1 | Citations: 104 DOI: 10.1109/TASL.2013.2255278 Texture Classification Using Rotation- and Scale-Invariant Gabor Texture Features 2013 Farhan Riaz Ali Hassan Usman Qamar Saad Rehman IEEE Signal Processing Letters, Volume: 20, Issue: 6, Pages: 607-610 Impact Factor: 1.639 | Quartile: 2 | Citations: 90 DOI: 10.1109/LSP.2013.2259622 Classification of emotional speech using 3DEC hierarchical classifier 2012 Ali Hassan R I Damper SPEECH COMMUNICATION, Volume: 54, Issue: 7, Pages: 903-916 Impact Factor: 1.283 | Quartile: 2 | Citations: 31 DOI: http://dx.doi.org/10.1016/j.specom.2012.03.003 Crypt analysis of two time pads in case of compressed speech 2011 Liaquat Ali Khan Shamim Baig Ali Hassan Computers & Electrical Engineering, NULL Impact Factor: 0.837 | Quartile: 3 | Citations: 3 DOI: 10.1016/j.compeleceng.2011.04.008 **Conference Proceedings** Ensemble Learning for Offline Signature Verification using Fused Deep Features 2024 Sara Tehsin Prof Ali Hassan Dr Farhan Riaz 2024 5th International Conference on Advancements in Computational Sciences (ICACS), res.country(177,) Citations: N/A DOI: 10.1109/ICACS60934.2024.10473290 EMD and VMD in Pre-Movement EEG Signal Analysis: A Hybrid Mode Selection to Classify Upper Limb 2023 **Complex Movements Using Statistical Features** Beenish Khalid Ali Hassan Ehsan Ullah Munir Imran Khan Niazi 2023 IEEE 20th International Conference on Smart Communities: Improving Quality of Life using AI, Robotics and IoT (HONET) res.country(233,) Citations: N/A DOI: 10.1109/HONET59747.2023.10374838 A Systematic Literature Review of Latest Cloud Forensic Frameworks, Tools and Challenges 2023 Ummer Faroog Arsalan Shaukat Wasi Haider Butt Ali Hassan 2nd International Conference on Emerging Trends in Electrical, Control, and Telecommunication Engineering res.country(177,) Citations: N/A DOI: 10.1109/ETECTE59617.2023.10396682 2023 Classification of Complicated Upper Limb Movements from Pre-movement EEG Signals Using STFT and Spectral Characteristics Ehsan Azam Ali Hassan Muhammad Abdul Basit Malik Imran Khan Niazi IEEE Symposium on Computer-Based Medical Systems, res.country(109,) Citations: N/A DOI: 10.1109/CBMS58004.2023.00249 2023 Motor Imagery EEG Classification Using Fine-Tuned Deep Convolutional EfficientNetB0 Model Muhammad Shahroze Ali Hassan Aqsa Rahim Muhammad Hashir Ashraf Amna Rahim Shayaan Saghir 3rd International Conference on Artificial Intelligence (ICAI), res.country(177,) Citations: N/A DOI: 10.1109/ICAI58407.2023.10136681 A Study & Proposed Architecture for Large Scale IoT Networks in the space of Public Transportation 2023 Afaq Ahmad Khan Muhammad Umar Farooq Ali Hassan 3rd IEEE International Conference on Artificial Intelligence, ICAI 2023, res.country(177,) Citations: N/A DOI: 10.1109/ICAI58407.2023.10136684

2022

Subject Wise Motor Imagery Classification from EEG Data Using Transfer Learning

Afaq Ahmad Khan Ali Hassan Ali Hassan Muhammad Talha Jahangir 2022 24th International Multitopic Conference, INMIC 2022, res.country(177,)

Citations: N/A

PCA and LDA based Classifiers for Osteoporosis Identification

Machine Learning based Theoretical Framework for Failure Prediction, Detection, and Correction of Mission-Critical Flight Software Muhammad Waqas Ahmad Muhammad Usman Akram Kashif Saghar Wasi Haider Butt Rashid Ahmad Ali Hassan 2022 2nd International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,) Citations: N/A DOI: 10.1109/ICoDT255437.2022.9787424	2022
Simulating synchronization issues on a multiprocessor embedded system for testing Sabeen Masood Shoab Ahmed Khan Ali Hassan 2021 IEEE International Conference on Information Communication and Software Engineering (ICICSE), res.country(48,) Citations: N/A	2021
DOI: 10.1109/ICICSE52190.2021.9404126 Application of Separate Modal Analysis and Scale-Invariant Feature Transform on Clinical Data for the Screening of Breast Cancer Amer Sohail Kashif Mubashir Hussain Jingzhou Zhao Ali Hassan Hamood Ud Rahman Yongjun Tang 2021 IEEE International Conference on Information Communication and Software Engineering (ICICSE), res.country(48,) Citations: N/A DOI: 10.1109/ICICSE52190.2021.9404094	2021
Identification of Remote IoT Users Using Sensor Data Analytics Muazzam A. Khan Nazar A. Saqib Ali Hassan Samera Batool FICC: Future of Information and Communication Conference, res.country(233,) Citations: N/A DOI: 10.1007/978-3-030-12388-8_24	2019
A Survey of Deep Learning and Traditional Approaches for EEG Signal Processing and Classification Memoona Iftikhar Ali Hassan Shoab A Khan 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON), res.country(38,) Citations: N/A DOI: 10.1109/IEMCON.2018.8614893	2018
Supervised Level Sets For Dermoscopic Image Segmentation Muntaha Sakeena Rubata Riasat Ali Hassan Farhan Riaz 2018 IEEE 20th International Conference on e-Health Networking, Applications and Services (Healthcom), res.country(56,) Citations: N/A DOI: 10.1109/HealthCom.2018.8531083	2018
Curve Evolution Based on Edge Following Algorithm for Medical Image Segmentation Sana Ullah Shah Khalid Farhan Hussain Ali Hassan Farhan Riaz IEEE Intelligent Systems Conference IntelliSys 2018, res.country(231,) Citations: N/A DOI: 10.1007/978-3-030-01054-6_38	2018
Segmentation of heart sound by clustering using spectral and temporal features Shah Khalid Ali Hassan Sana Ullah Farhan Riaz IEEE Intelligent Systems Conference IntelliSys 2018, res.country(231,) Citations: N/A DOI: 10.1007/978-3-030-01054-6_24	2018
Convolutional neural network based image segmentation: a review Hina Ajmal Saad Rehman Muhammad Umar Farooq Qurrat-ul-Ain Farhan Riaz Ali Hassan SPIE Defense + Security, res.country(233,) Citations: N/A DOI: 10.1117/12.2304711	2018
Comparison of SIFT and ASIFT based filters for better recognition and tracking in a remote scene environment Haris Masood Saad Rehman Qaiser Chaudry Farhan Riaz Ali Hassan Muhammad Umar Farooq SPIE Defense + Security, res.country(233,) Citations: N/A DOI: 10.1117/12.2305266	2018

2018

Hina Ajmal Saad Rehman Farhan Riaz Ali Hassan Aqib Perwaiz Qurrat U. Ain 29th Pattern Recognition and Tracking Conference held from 15-19 Apr 2018 in USA, res.country(233,) Citations: N/A DOI: 10.1117/12.2304728 Estimation of Illumination Map form Dermoscopy Images for Extracting Differential Structure using 2017 **Gabor Local mesh Patterns** Farhan Riaz Rida Nisar Ali Hassan Muntaha Sakeena Muhammad Ajmal Azad 2017 International Conference on Computational Science and Computational Intelligence (CSCI), res.country(233.) Citations: N/A DOI: 10.1109/CSCI.2017.72 **Detection and Classification of Pilots Cognitive State using EEG** 2017 Q.A. Khan Ali Hassan Saad Rehman Farhan Riaz 2nd IEEE International Conference on Computational Intelligence and Applications, res.country(48,) Citations: N/A DOI: 10.1109/CIAPP.2017.8167249 **Automatic Tracking of Cervical Spine Using Fluoroscopic Sequences** 2017 Muhammad Nauman Ali Hassan Farhan Riaz Saad Rehman Rasmus Wiberg Nedergard Kelly Holt Heidi Haavik Imran Khan Niazi IEEE Intelligent Systems Conference, res.country(231,) Citations: N/A DOI: 10.1109/IntelliSys.2017.8324355 Fully Invariant Wavelet Enhanced Minimum Average Correlation Energy Filter for Object Recognition in 2017 **Cluttered and Occluded Environments** Sara Tehsin Saad Rehman Farhan Riaz Omer Saeed Ali Hassan Muazzam Khan Muhammad S. Alam Pattern Recognition and Tracking XXVIII(2017), res.country(233,) Citations: N/A DOI: 10.1117/12.2262434 Transfer Learning for Electroencephalogram Signal 2016 Farah Abid Ali Hassan Anum Abid Imran Khan Niazi Mads Jochumsen 9th International Conference on Computer and Electrical Engineering, res.country(68,) DOI: https://www.researchgate.net/publication/318785747_Transfer_learning_for_electroencephalogram_signals Efficient Predication and Classification of Epileptic Seizures using EEG data based on Univariate 2016 Linear Features Muhammad Usman Ali Hassan 2016 9th International Conference on Computer and Electrical Engineering (ICCEE 2016), res.country(68,) Citations: N/A DOI: http://www.jcomputers.us/vol13/jcp1306-04.pdf Detection of Acoustic Events by using MFCC and Spectro-Temporal Gabor Filterbank Features 2016 Umair Zafar Khan M Usman Akram Ali Hassan Arslan Shaukat Muhammad Kashan Basit Abdul Wahid 8th International Conference on Signal Processing Systems, res.country(170,) Citations: N/A DOI: 10.1145/3015166.3015186 How well can the fusion of Gabor filters and local binary patterns help in identifying gastric lesions? 2016 Farhan Riaz Ali Hassan Pedro Pimentel-Nunes Diogo Libnio e Jorge Lage Miguel Tavares Coimbra 2016 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) res.country(233,) Citations: N/A DOI: 10.1109/EMBC.2016.7590921 **Crowd Counting using Adaptive Segmentation in a Congregation** 2016 Muhamad Sajid Shoab A Khan Ali Hassan 2016 IEEE International Conference on Signal and Image Processing (ICSIP), res.country(48,) Citations: N/A DOI: 10.1109/SIPROCESS.2016.7888363 Fully Invariant Quaternion Based Filter for Target Recognition 2015 Dilshad Sabir Saad Rehman Ali Hassan

2015 IEEE International Conference on Signal and Image Processing Applications (ICSIPA), res.country(157,)

Citations: N/A DOI: 10.1109/ICSIPA.2015.7412244 Using a Portable Device for Online Single-Trail MRCP Detection and Classification 2015 Ali Hassan Usman Ghani Farhan Riaz Saad Rehman Mads Jochumsen Denise Taylor Imran Khan Niazi Intelligent Data Engineering and Automated Learning - IDEAL 2015, res.country(178,) Citations: N/A **DOI:** 10.1007/978-3-319-24834-9_61 Separate Modal Analysis using Scale Invariant Feature Transform (SIFT) with Digital Image Elasto 2015 Tomography (DIET) for breast cancer screening test Amer Sohail Kashif Mubashir Hussain Hamood Ur Rehman Owais Nazir Ali Hassan Muhammad Awais Dildar 2015 International Conference on Informative and Cybernetics for Computational Social Systems (ICCSS), res.country(48.) Citations: N/A DOI: 10.1109/ICCSS.2015.7281162 2015 A Robust Classification Model with Voting based feature Selection for Diagnosis of Epilepsy Ali Hassan Farhan Riaz Abdul Basit 2015 IEEE 28th Canadian Conference on Electrical and Computer Engineering (CCECE), res.country(38,) Citations: N/A DOI: 10.1109/CCECE.2015.7129181 A Robust Classification Model based on iBSA and GCA Biomarker for Diagnosis of Epilepsy 2015 Ali Hassan Farhan Riaz Abdul Basit 2015 IEEE 28th Canadian Conference on Electrical and Computer Engineering (CCECE), res.country(38,) Citations: N/A DOI: 10.1109/CCECE.2015.7129180 An Empirical Study to Remove Noise from Signal-Trail MRCP for Movement Intention Detection 2015 Ali Hassan Farhan Riaz Saad Rehman Mads Jochumsen Imran Niazi Kim Dremstrup 2015 IEEE 28th Canadian Conference on Electrical and Computer Engineering (CCECE), res.country(38,) Citations: N/A DOI: 10.1109/CCECE.2015.7129183 2015 Enhanced Dynamic Quadrant Histogram Equalization Plateau Limit for Image Contrast Enhancement Rizwan Khalid Saad Rehman Farhan Riaz Ali Hassan 2015 Fifth International Conference on Digital Information and Communication Technology and its Applications (DICTAP), res.country(126,) Citations: N/A DOI: 10.1109/DICTAP.2015.7113176 DSP Middleware Adaptation for Network on System (NoS) based Hybrid Embedded System 2014 Abu Bakr Nisar Alvi Shoab A Khan Ali Hassan Umer Farooq 2014 IEEE/ACS 11th International Conference on Computer Systems and Applications (AICCSA), res.country(186,) Citations: N/A DOI: 10.1109/AICCSA.2014.7073174 Distance Regularized Curve Evolution: A Formulation Using Creaseness Features for Dermoscopic 2014 Image Segmentation Jahan Zeb Farhan Riaz Ali Hassan 2014 12th International Conference on Signal Processing (ICSP), res.country(48,) Citations: N/A DOI: 10.1109/ICOSP.2014.7015166 Blood Vessel Segmentation and Centerline Extraction based on Multilayered Thresholding in CT 2014 **Images** Sidra Rashid Shagufta Shoab A Khan Ali Hassan The 2nd International Conference on Intelligent Systems and Image Processing 2014 (ICISIP2014), res.country(113,)

2014

Citations: N/A

Citations: N/A

movements

DOI: 10.12792/icisip2014.081

Processing movement related cortical potentials in EEG signals for identification of slow and fast

2014 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, res. country (233,)

Farhan Riaz Ali Hassan Saad Rehman Imran Niazi M. Jochumsen K. Dremstrup

DOI: 10.1109/EMBC.2014.6944724	
Daily Sound Recognition for Elderly People using Ensemble Methods Arslan Shaukat Muhammad Ahsan Ali Hassan Farhan Riaz 2014 11th International Conference on Fuzzy Systems and Knowledge Discovery (FSKD), res.country(48,) Citations: 11 DOI: 10.1109/FSKD.2014.6980871	2014
Classification of Kinetics of Movement for Lower Limb using Covariate Shift Method for Brain Computer Interface Ali Hassan Imran Khan Niazi M. Jochumsen Farhan Riaz K. Dremstrup 2014 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), res.country(109,) Citations: N/A DOI: 10.1109/ICASSP.2014.6854726	2014
Network on Hybrid Processors based High End Embedded System Abu Bakr Nisar Alvi Shoab A Khan Ali Hassan Second International Conference on Technological Advances in Electrical, Electronics and Computer Engineering, res.country(157,) Citations: N/A DOI: https://www.researchgate.net/publication/261064437_Network_on_Hybrid_Processors_based_High_End_Embedded_System	2014
Covariate Shift Approach for Invariant Texture Classification Ali Hassan Arslan Shaukat 2013 IEEE International Workshop on Machine Learning for Signal Processing (MLSP), res.country(231,) Citations: N/A DOI: 10.1109/MLSP.2013.6661945	2013
Editorial Activities Computers in Biology and Medicine Reviewed Papers for Journals	2025
Impact Factor: 7.7 IEEE Access Reviewed Papers for Journals Impact Factor: 3.4	2025
Biomedical Engineering Advances Reviewed Papers for Journals Impact Factor: N/A	2025
Engineering Applications of Artificial Intelligence Reviewed Papers for Journals Impact Factor: 7.5	2025
IET Biometrics Reviewed Papers for Journals Impact Factor: 1.8	2024
Computers in Biology and Medicine Reviewed Papers for Journals Impact Factor: 7.0	2024
Computers in Biology and Medicine Reviewed Papers for Journals Impact Factor: 7.0	2024
Signal, Image and Video Processing Reviewed Papers for Journals Impact Factor: 2.0	2024
N/A Reviewed Papers for Journals Impact Factor: 0	2024
Computers in Biology and Medicine Reviewed Papers for Journals Impact Factor: 7.0	2024

N/A Reviewed Papers for Journals Impact Factor: 0	2024
N/A Reviewed Papers for Journals	2024
Impact Factor: N/A Measurement Reviewed Papers for Journals	2024
Impact Factor: 5.6	
Computers in Biology and Medicine Reviewed Papers for Journals Impact Factor: 7.7	2024
IEEE Access Reviewed Papers for Journals Impact Factor: 3.9	2023
Biomedical Signal Processing & Control Reviewed Papers for Journals	2023
Impact Factor: 5.1	
N/A Reviewed Papers for Journals Impact Factor: N/A	2023
Reviewed Papers for Journals Impact Factor: N/A	2023
Transactions on Biomedical Engineering Reviewed Papers for Journals	2023
Impact Factor: 4.6 Engineering Applications of Artificial Intelligence Reviewed Papers for Journals	2023
Impact Factor: 8.0	
Biomedical Signal Processing & Control Reviewed Papers for Journals Impact Factor: 3.88	2022
Reviewed Papers for Journals Impact Factor: 5.076	2022
Reviewed Papers for Journals	2022
Impact Factor: 3.756	2022
Reviewed Papers for Journals Impact Factor: 3.367	
Biomedical Signal Processing & Control Reviewed Papers for Journals	2022
Impact Factor: 5.076	2022
Reviewed Papers for Journals Impact Factor: 3.88	_
Reviewed Papers for Journals Impact Factor: 3.88	2022
Reviewed Papers for Journals Impact Factor: 3.880	2021

Reviewed Papers for Journals Impact Factor: 3.880	2021
Edited Journal Issue / Proceeding / Book Impact Factor: 0	2021
Reviewed Papers for Journals Impact Factor: 1.711	2020
Reviewed Papers for Journals	2020
Intellectual Property	
Copyrights	
Software for the Annotation and Labeling of Gastroenterology Images Status: Filed	2022
Industry 4.0 Process Virtualization system Dashboard/Meshloc4F Status: Filed	2021
Patents	
Industrial Designs	
Industry 4.0 Process Virtualization Routing Node Status: Filed	2021

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