

Arsalan Shaukat

Associate Professor

College of Electrical & Mechanical Engineering

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About

Dr. Arsalan Shaukat is working as Associate Professor in the College of Electrical & Mechanical Engineering. Dr. Arsalan Shaukat has a PhD in Machine Learning. Dr. Arsalan Shaukat has published 78 research articles & conference papers having a citation count of 708, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Machine Learning University of Manchester , United Kingdom	2005 - 2010
MS in Digital Image Processing NUST, Islamabad , Pakistan	2003 - 2005
BS in Computer Engg NUST, Islamabad , Pakistan	1999 - 2003

Experience

Associate Professor College of Electrical & Mechanical Engineering	2019- Present
Assistant Professor College of Electrical & Mechanical Engineering	2015 - 2019
Assistant Professor College of Electrical & Mechanical Engineering	2012- Present
Assistant Professor College of Electrical & Mechanical Engineering	2010 - 2012
Lab Demonstrator The University of Manchester , Oxford Road, Manchester, M13 9PL, UK	2008 - 2010
HORNET Rep The University of Manchester , Oxford Road, Manchester, M13 9PL, UK	2006 - 2008
Lab Engineer CEME, NUST , Peshawar Road, Rawalpindi, Pakistan	2004 - 2005

Awards

Best Teacher Award Awarded the Best Teacher for the year 2017-18 of College of EME, NUST	2018
Performance Based Increme Awarded Performance based Increments on Tenure Track System for 2 years 2014-15 and 2015-16.	2016

Professional Memberships

PEC	Since 2003
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Research Projects

National Projects

development and reconstruction of geometrically accurate models (3D) of human brain for calculation of intracranial pressure (ICP) due to presence of tumours using image based modeling and finite elements.2018

Funding Agency: HEC Pakistan
Amount: PKR 1,450,000.00
Status: Completed

International Projects

Research Articles

Class and Data-Incremental Learning Framework for Baggage Threat Segmentation via Knowledge Distillation2025

Ammara Nasim Saad Mazher Khan Anum Abdul Salam Adeel M Syed Muhammad Usman Akram Arsalan Shaukat Taimur Hassan
IEEE Access , Volume:13, Pages 95977-96000
Impact Factor: 3.600 | Quartile: 2
DOI: 10.1109/ACCESS.2025.3574919

Segmented 3D Lung Cube Dataset and Dual-Model Framework for COVID-19 Severity Prediction2024

Mohsin ali Khan Arsalan Shaukat Zartasha Mustansar Muhammad Usman Akram
IEEE Access , Volume: 12, Page(s):172596-172609
Impact Factor: 3.4 | Quartile: 2
DOI: 10.1109/ACCESS.2024.3501234

A Modified Deep Semantic Segmentation Model for Analysis of Whole Slide Skin Images2024

Muhammad Zeeshan Asaf Hamid Rasul Muhammad Usman Akram Tazeen Hina Tayyab Rashid Arslan Shaukat
Scientific Reports , Volume 14, Issue 1, Article Number 23489
Impact Factor: 3.800 | Quartile: 1 | Citations: 4
DOI: https://doi.org/10.1038/s41598-024-71080-4

Enhanced accuracy with Segmentation of Colorectal Polyp using NanoNetB, and Conditional Random Field Test-Time Augmentation2024

Muhammad Sajjad Hussain Umer Asgher Sajid Nisar Vladimir Socha Arslan Shaukat Jinhui Wang Tian Feng Rehan Zafar Paracha Muhammad Ali Khan
Frontiers in Robotics and AI , Volume 11, Article Number 1387491
Impact Factor: 2.900 | Quartile: 2
DOI: https://doi.org/10.3389/frobt.2024.1387491

Classification of white blood cells (leucocytes) from blood smear imagery using machine and deep learning models: A global scoping review2024

Rabia Asghar Sanjay Kumar Arslan Shaukat Paul Hynds
Plos One , Volume 19, Issue 6, Article Number e0292026
Impact Factor: 2.900 | Quartile: 1 | Citations: 12
DOI: https://doi.org/10.1371/journal.pone.0292026

Recognition of Children’s Facial Expressions Using Deep Learned Features2023

Arsalan Shaukat Rizwan Ahmed Khan Zartasha Mustansar Muhammad Usman Akram Umer Asgher Unqua Laraib
Electronics , Volume: 12 Issue: 11, Article Number:2416
Impact Factor: 2.690 | Quartile: 3 | Citations: 7
DOI: 10.3390/electronics12112416

A Multi–Step Approach for Optically Active and Inactive Water Quality Parameter Estimation Using Deep Learning and Remote Sensing2022

Mehreen Ahmed Rafia Mumtaz Zahid Anwar Arsalan Shaukat Omar Arif Faisal Shafait
Water , Volume 14, Issue 13, Article Number 2112
Impact Factor: 3.530 | Quartile: 2 | Citations: 41
DOI: https://doi.org/10.3390/w14132112

Computational modeling and simulation of stenosis of the cerebral aqueduct due to brain tumor2022

Uzair ul Haq Ali Ahmad Zartasha Mustansar Arsalan Shaukat Faizan Nadeem Sadia Taalay Lee Margetts Sasa Cukovic M. Junaid Iqbal Khan
Engineering Applications of Computational Fluid Mechanics, Volume 16, Issue 1, Pages 1018-1030
Impact Factor: 6.519 | Quartile: 1 | Citations: 6

DOI: <https://doi.org/10.1080/19942060.2022.2056511>

Machine Learning and Signal Processing Based Analysis of sEMG Signals for Daily Action 2022

Classification

Sajid Gul Khawaja Muhammad Usman Akram Aimal Khan Arsalan Shaukat Ayesha Sadiq Norah Saleh Alghamdi

IEEE Access , Volume 10, Pages 40506-40516

Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 8

DOI: 10.1109/ACCESS.2022.3166885

A Hybrid VDV Model for Automatic Diagnosis of Pneumothorax Using Class-Imbalanced Chest X-Rays 2022

Dataset

Tahira Iqbal Arsalan Shaukat Muhammad Usman Akram Abdul Wahab Muzaffar Zartasha Mustansar Yung-Cheol Byun

IEEE Access , Volume 10, Pages 27670-27683

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 11

DOI: <http://10.1109/ACCESS.2022.3157316>

A Novel Data-Driven Adaptive Technique to Generate a Physician Visiting Schedule for Better Patient 2022

Experience

Saria Safdar Shoab Ahmed Khan Arsalan Shaukat

IEEE Access , Volume 10, Pages 3935-3948

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 4

DOI: 10.1109/ACCESS.2021.3138460

Wheat Yellow Rust Disease Infection Type Classification Using Texture Features 2022

Uferah Shafi Rafia Mumtaz Ihsan Ul Haq Maryam Hafeez Naveed Iqbal Arsalan Shaukat Syed Mohammad Hassan Zaidi Zahid Mahmood

Sensors , Volume 22(1), Article Number 146

Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 34

DOI: 10.3390/s22010146

Automatic Diagnosis of Pneumothorax from Chest Radiographs: A Systematic Literature Review 2021

Arsalan Shaukat Zartasha Mustansar Tahira Iqbal Muhammad Usman Akram Aimal Khan

IEEE Access , Volume 9, Pages 145817-145839

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 9

DOI: 10.1109/ACCESS.2021.3122998

How growing tumour impacts intracranial pressure and deformation mechanics of brain 2021

Lee Margetts Zartasha Mustansar Arsalan Shaukat Ali Ahmad Uzair ul Haq

Royal Society Open Science , Volume 8(9), Article Number 210165

Impact Factor: 2.963 | **Quartile:** 2 | **Citations:** 3

DOI: <https://doi.org/10.1098/rsos.210165>

Genetic Algorithm Based Automatic Out-Patient Experience Management System (GAPEM) Using 2021

RFIDs and Sensors

Saria Safdar Shoab Ahmed Khan Arsalan Shaukat Muhammad Usman Akram

IEEE Access , Volume 9, Pages 8961-8976

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 10

DOI: 10.1109/ACCESS.2020.3046839

Multi-objective regression test suite optimization using three variants of adaptive neuro fuzzy inference 2020

system

Ayesha Kiran Wasi Haider Butt Arsalan Shaukat Muhammad Umar Farooq Urooj Fatima Farooque Azam Zeeshan Anwar

PloS One , Volume 15(12), Article Number e0242708

Impact Factor: 3.240 | **Quartile:** 2 | **Citations:** 9

DOI: <https://doi.org/10.1371/journal.pone.0242708>

Extraction of Retinal Layers Through Convolution Neural Network (CNN) in an OCT Image for 2020

Glaucoma Diagnosis

Hina Raja Muhammad Usman Akram Arsalan Shaukat Norah Alghamdi Sajid Gul Khawaja Noman Nazir Shoab Ahmad Khan

Journal of Digital Imaging , Volume 33, Pages 1428-1442

Impact Factor: 4.056 | **Quartile:** 1 | **Citations:** 39

DOI: 10.1007/s10278-020-00383-5

Neurotransmission cognitive theory: A novel approach for non-invasive brain stimulation using 2020

mechanical vibrations for the rehabilitation of neurological patients

Aliya A. Khan Shahbaz K. Ranjha Muhammad Usman Akram Sajid Gul Khawaja Arsalan Shaukat

Medical Hypotheses , Volume 143, Article Number 110078

Impact Factor: 1.538 Quartile: 4 Citations: 6 DOI: https://doi.org/10.1016/j.mehy.2020.110078	
Improved automated detection of glaucoma by correlating fundus and SD-OCT image analysis <i>Tehmina Shehryar Muhammad Usman Akram Samina Khalid Shamila Nasreen Anum Tariq Aqib Perwaiz Tehmina Shehryar Samina Khalid Shamila Nasreen Anum Tariq Aqib Perwaiz Arsalan Shaukat</i> <i>International Journal of Imaging Systems and Technologies</i> , Volume 30, Issue 1, Pages 1-20 Impact Factor: 2.00 Quartile: 3 Citations: 18 DOI: 10.1002/ima.22413	2020
Automated glaucoma detection using retinal layers segmentation and optic cup-to-disc ratio in optical coherence tomography images <i>Sajid Gul Khawaja Ubaid Ullah Yasin Wasi Haider Butt Aneeqa Ramzan Muhammad Usman Akram Arsalan Shaukat</i> <i>IET Image Processing</i> , Volume 13, Issue 3, Pages 409-420 Impact Factor: 1.995 Quartile: 3 Citations: 14 DOI: 10.1049/iet-ipr.2018.5396	2019
Analysis of PCG signals using quality assessment and homomorphic filters for localization and classification of heart sounds <i>Quratul-Ain Mubarak Muhammad Usman Akram Arsalan Shaukat Farhan Hussain Sajid Gul Khawaja Wasi Haider Butt</i> <i>Computer Methods and Programs in Biomedicine</i> , Volume: 164, Pages 143-157 Impact Factor: 3.424 Quartile: 1 Citations: 59 DOI: 10.1016/j.cmpb.2018.07.006	2018
Structure Tensor Graph Searches Based Fully Automated Grading and 3D Profiling of Maculopathy From Retinal OCT Images <i>Taimur Hassan Muhammad Usman Akram Arsalan Shaukat Sajid Gul Khawaja BILAL HASSAN</i> <i>IEEE Access</i> , Volume 6, Pages 44644-44658 Impact Factor: 4.098 Quartile: 1 Citations: 38 DOI: 10.1109/ACCESS.2018.2862626	2018
Network-on-Chip based MPSoC architecture for k-mean clustering algorithm <i>Sajid Gul Khawaja Muhammad Usman Akram Shoab Ahmed Khan Arsalan Shaukat Saad Rehman</i> <i>Microprocessors and Microsystems</i> , Volume 46, Part B, Pages 1-10 Impact Factor: 1.025 Quartile: 3 Citations: 5 DOI: 10.1016/j.micpro.2016.08.006	2016
Person identification using vascular and non-vascular retinal features <i>Zahra Waheed M. Usman Akram Amna Waheed Muazzam A. Khan Arsalan Shaukat Mazhar Ishaq</i> <i>Computers & Electrical Engineering</i> , Volume: 53 Pages: 359-371 Impact Factor: 1.57 Quartile: 3 Citations: 27 DOI: 10.1016/j.compeleceng.2016.03.010	2016
Automatic Cancerous Tissue Classification using Discrete Wavelet Transformation and Support Vector Machine <i>Usman Ali Arsalan Shaukat Masroor Hussain Jehad Ali Khalil Khan Muhammad Bilal Khan Mumtaz Ali Shah</i> <i>Journal of Basic and Applied Scientific Research</i> , Issue 6, Volume 7, Page 15-23 Impact Factor: 0 DOI: https://www.textroad.com/Basic%20and%20Applied%20Scientific%20Research-Scope.html	2016
Hybrid Features and Mediods Classification based Robust Segmentation of Blood Vessels <i>Amna Waheed Muhammad Usman Akram Shehzad Khalid Zahra Waheed Muazzam Khattak Arsalan Shaukat</i> <i>Journal of Medical System</i> , Volume: 39 Issue: 10 Impact Factor: 2.456 Quartile: 2 Citations: 26 DOI: 10.1007/s10916-015-0316-1	2015
Removal of False Blood Vessels Using Shape Based Features and Image Inpainting <i>Amna Waheed Zahra Waheed M. Usman Akram Arsalan Shaukat</i> <i>Journal of Sensors</i> , Article Number 839894 Impact Factor: 0.715 Quartile: 3 Citations: 10 DOI: 10.1155/2015/839894	2015
Scale and rotation invariant texture classification using covariate shift methodology <i>Ali Hassan Farhan Riaz Arsalan Shaukat</i> <i>IEEE Signal Processing Letters</i> , Volume 21, Issue 3, Article number 6722919, Pages 321-324	2014

Impact Factor: 1.751 | **Quartile:** 2 | **Citations:** 5
DOI: 10.1109/LSP.2014.2302576

Potential Lung Nodules Identification for Characterization by Variable Multistep Threshold and Shape Indices from CT Images

2014

Saleem Iqbal Khalid Iqbal Fahim Arif Arsalan Shaukat Aasia Khanum
Computational and Mathematical Methods in Medicine, Article Number: 241647

Impact Factor: 0.766 | **Quartile:** 4 | **Citations:** 14
DOI: 10.1155/2014/241647

Automated Detection and Grading of Diabetic Maculopathy in Digital Retinal Images

2013

Anam Tariq M. Usman Akram Arsalan Shaukat Shoab A. Khan
Journal of Digital Imaging, Volume: 26 Issue: 4 Pages: 803-812

Impact Factor: 1.2 | **Quartile:** 3 | **Citations:** 62
DOI: 10.1007/s10278-012-9549-4

Conference Proceedings

AI-ASSISTED COMPUTATIONAL FRAMEWORK FOR PERSONALIZED KNEE IMPLANT DESIGN

2025

Daniyal Durrani Zartasha Mustansar Arsalan Shaukat
11th International Conference on Machine Vision and Machine Learning (MVML 2025), res.country(75,)

Citations: N/A
DOI: Nil

Personality Prediction using Multiple Textual Datasets and Deep Learning Models

2024

Arsalan Shaukat SEEMAB LATIF Faiza Arshad
2024 International Conference on Frontiers of Information Technology, FIT 2024, res.country(177,)

Citations: N/A
DOI: 10.1109/FIT63703.2024.10838446

Masked Face Detection and Recognition Using a Unified Feature Extractor

2024

Aroobah Iftikhar Arslan Shaukat Rimsha Tariq
2024 5th International Conference on Advancements in Computational Sciences, ICACS 2024, res.country(177,)

Citations: N/A
DOI: 10.1109/ICACS60934.2024.10473243

Dynamic Image Deblurring based on Crosshatch Attention Adversarial Network and Hybrid Loss

2024

Ummama Aslam Arslan Shaukat Basim Azam
2024 5th International Conference on Advancements in Computational Sciences, ICACS 2024, res.country(177,)

Citations: N/A
DOI: 10.1109/ICACS60934.2024.10473271

Classification of Fetal Cardiac Arrhythmia Using Heart Rate Variability and Machine Learning

2024

Muhammad Arslan Shahid Arslan Shaukat Muhammad Usman Akram Wasi Haider Butt
2024 5th International Conference on Advancements in Computational Sciences (ICACS), res.country(177,)

Citations: N/A
DOI: 10.1109/ICACS60934.2024.10473305

Ontology Based Test Case Reduction in Regression Testing

2023

Ummer Farooq Usman Qamar Arslan Shaukat Abu Bakar Zubia Ashraf Mehwish Naz
2023 26th International Conference on Computer and Information Technology, ICCIT 2023, res.country(19,)

Citations: N/A
DOI: 10.1109/ICCIT60459.2023.10441049

A Systematic Literature Review of Latest Cloud Forensic Frameworks, Tools and Challenges

2023

Ummer Farooq 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

Context-Aware Neural Machine Translation using Selected Context

2022

Sami Ul Haq Sadaf Abdul Rauf Arslan Shaukat Muhammad Hassan Arif
2022 19th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,)

Citations: N/A
DOI: 10.1109/IBCAST54850.2022.9990335

Emotion Recognition from Facial Images using Hybrid Deep Learning Models <i>Arfa Fatima Yaseen Arslan Shaukat Maria Alam</i> 2022 2nd International Conference on Digital Futures and Transformative Technologies, ICoDT2 2022, res.country(177,) Citations: 2 DOI: 10.1109/ICoDT255437.2022.9787474	2022
NLP based Model for Classification of Complaints: Autonomous and Intelligent System <i>Qurat-ul-ain Arslan Shaukat Usman Saif</i> 2022 2nd International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,) Citations: N/A DOI: 10.1109/ICoDT255437.2022.9787456	2022
Multimodal Emotion Recognition using Deep Learning Architectures <i>Iram Hina Arsalan Shaukat Muhammad Usman Akram</i> 2022 2nd International Conference on Digital Futures and Transformative Technologies, ICoDT2 2022, res.country(282,) Citations: 1 DOI: 10.1109/ICoDT255437.2022.9787437	2022
TM-BERT: A Twitter Modified BERT for Sentiment Analysis on Covid-19 Vaccination Tweets <i>Muhammad Talha Riaz Muhammad Shah Jahan Dr Sajid Gul Khawaja Dr Arsalan Shaukat Asst Prof Jahan Zeb</i> 2022 2nd International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,) Citations: 1 DOI: DOI: 10.1109/ICoDT255437.2022.9787395	2022
Framework for Dynamic Partial Configuration of Algorithms for Zynq-7000 SoC using JPEG as Case Study <i>Sajid Gul Khawaja Arsalan Shaukat Muhammad Usama Iqbal Shoab Ahmed Khan</i> 2022 2nd International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(282,) Citations: N/A DOI: 10.1109/ICoDT255437.2022.9787460	2022
Automatic Prostate Cancer Grading Using Deep Architectures <i>Muhammad Mohsin Arslan Shaukat Muhammad Usman Akram Muhammad Kaab Zarrar</i> 2021 IEEE/ACS 18th International Conference on Computer Systems and Applications (AICCSA), res.country(136,) Citations: N/A DOI: 10.1109/AICCSA53542.2021.9686869	2021
Leukocytes Segmentation and Classification in Digital Microscopic Images <i>Muhammad Abbas Hussain Ibtihaj Ahmad Arslan Shaukat Zain Ul Islam</i> 2021 4th International Conference on Computing & Information Sciences (ICCIS), res.country(177,) Citations: 1 DOI: 10.1109/ICCIS54243.2021.9676191	2021
Comparison of GLCM based Hand Gesture Recognition Systems using Multiple Classifiers <i>Maryam Naveed Quratulain Arslan Shaukat</i> 2021 International Conference on Robotics and Automation in Industry (ICRAI), res.country(177,) Citations: 2 DOI: 10.1109/ICRAI54018.2021.9651396	2021
Document Level NMT of Low-Resource Languages with Backtranslation <i>Sami Ul Haq Sadaf Abdul Rauf Arslan Shaukat Abdullah Saeed</i> 5th Conference on Machine Translation (WMT), res.country(231,) Citations: N/A	2020
Improving Document-Level Neural Machine Translation with Domain Adaptation <i>Sami ul Haq Sadaf Abdul Rauf Arslan Shaukat Noor-e-Hira Sami ul Haq Sadaf Abdul Rauf Arslan Shaukat Noor-e-Hira</i> 4th Workshop on Neural Generation and Translation (WNGT 2020), res.country(233,) Citations: N/A DOI: 10.18653/v1/2020.ngt-1.27	2020
Towards the Selection of Best Machine Learning Model for Student Performance Analysis and Prediction <i>Muhammad Faisal Masood Aimal Khan Farhan Hussain Arslan Shaukat Babar Zeb Rana Muhammad Kaleem Ullah</i> 6th International Conference on Soft Computing & Machine Intelligence (ISCMI), res.country(247,) Citations: 6	2019

DOI: 10.1109/ISCM147871.2019.9004299	
Customer Experience Management (CEM) for Automation, Data Collection and Methodology <i>Saria Safdar Shoab Ahmed Khan Arslan Shaukat</i> <i>International Conference on Information and Communication Technology Convergence (ICTC), res.country(121,)</i> Citations: 2 DOI: 10.1109/ICTC46691.2019.8939860	2019
Towards Automatic Recognition of Sounds Observed in Daily Living Activity <i>Arslan Shaukat Ammar Younis Usman Akram Muhammad Mohsin Zartasha Mustansar</i> <i>18th International IEEE Conference on Brain Informatics and Cognitive Computing, res.country(109,)</i> Citations: N/A DOI: https://www.researchgate.net/publication/334786255_IEEE_Proceedings_of_18th_International_Conference_on_Cognitive_Informatics_Cognitive_Computing_ICCICC'19	2019
Geometrical Vitality of Human Head model to Calculate Intra Cranial Pressure for Pro-cognitive Computing <i>Zartasha Mustasar Maria Rathore Arslan Shaukat Salma Sherbaz Nabisha Farooq Faizan Nadeem</i> <i>18th IEEE conference on cognitive computing and cognitive informatics , Milan res.country(109,)</i> Citations: N/A DOI: https://www.researchgate.net/publication/334786255_IEEE_Proceedings_of_18th_International_Conference_on_Cognitive_Informatics_Cognitive_Computing_ICCICC'19	2019
Emotion Recognition in Video Clips Using Simple and Extended Center Symmetric LBP <i>Zaki Zahid Arslan Shaukat Rizwan Ahmed Khan Muhammad Usman Akram Yung-Cheol Byun</i> <i>IEEE Transportation Electrification Conference and Expo, Asia-Pacific (ITEC Asia-Pacific), res.country(121,)</i> Citations: N/A DOI: 10.1109/ITEC-AP.2019.8903878	2019
Multi-Label Fake News Detection using Multi-layered Supervised Learning <i>Tayyaba Rasool Wasi Haider Butt Arslan Shaukat Muhammad Usman Akram</i> <i>2019 11th International Conference on Computer and Automation Engineering, res.country(13,)</i> Citations: N/A DOI: 10.1145/3313991.3314008	2019
Biometric based human recognition using gait energy images <i>Saad Rehman Arslan Shaukat</i> <i>SPIE Defense + Security, 2018, Orlando, Florida, United States, res.country(233,)</i> Citations: N/A DOI: 10.1117/12.2304737	2018
Automatic Gleason Grading of Prostate Cancer using Gabor Filter and Local Binary Patterns <i>Tahir Farooq Arslan Shaukat M Usman Akram Omer Waqas Masood Ahmad</i> <i>2017 40th International Conference on Telecommunications and Signal Processing (TSP), res.country(68,)</i> Citations: 8 DOI: 10.1109/TSP.2017.8076065	2017
Effect of using different types of methods for the derivation of elastic modulus of bone - A critical survey <i>Zartasha Mustasar Arslan Shaukat Lee Margetts</i> <i>2017 International Conference on Mechanical, Aeronautical and Automotive Engineering (ICMAA 2017), res.country(157,)</i> Citations: 4 DOI: 10.1051/mateconf/201710813002	2017
Generation of high resolution medical images using super resolution via sparse representation <i>Muhammad Asif Shoab Ahmed Khan Taimur Hassan Muhammad Usman Akram Arslan Shaukat</i> <i>Advances in Intelligent Systems and Computing, res.country(136,)</i> Citations: N/A DOI: 10.1007/978-3-319-60834-1_29	2016
Detection of Acoustic Events by using MFCC and Spectro-Temporal Gabor Filterbank Features <i>Umair Zafar Khan M Usman Akram Ali Hassan Arslan Shaukat Muhammad Kashan Basit Abdul Wahid</i> <i>8th International Conference on Signal Processing Systems, res.country(170,)</i>	2016

Citations: N/A	
DOI: 10.1145/3015166.3015186	
Unsupervised Neural Network Optimized with Sequential Quadratic Programming for Linear and Non-Linear Dynamical Systems	2016
<i>Arslan Shaukat M Usman Akram M Kashan Basit Umair Zafar Khan</i>	
<i>International Conference on Signal Processing Systems, res.country(170,)</i>	
Citations: N/A	
DOI: 10.1145/3015166.3015213	
High resolution OCT image generation using super resolution via sparse representation	2016
<i>Muhammad Asif Muhammad Usman Akram Taimur Hassan Arslan Shaukat Razi Waqar</i>	
<i>SPIE - The International Society for Optical Engineering, res.country(113,)</i>	
Citations: 7	
DOI: 10.1117/12.2266337	
Comparative Analysis of Texture Descriptors for Classification	2016
<i>Masood Ahmed Arslan Shaukat M Usman Akram</i>	
<i>2016 IEEE International Conference on Imaging Systems and Techniques (IST), res.country(88,)</i>	
Citations: 4	
DOI: 10.1109/IST.2016.7738192	
Automatic Urdu Speech Recognition using Hidden Markov Model	2016
<i>Asadullah Arslan Shaukat M Usman Akram Hazrat Ali</i>	
<i>5th International Conference on Image, Vision and Computing held from 03-05 Aug 2016 in UK, res.country(231,)</i>	
Citations: 6	
DOI: 10.1109/ICIVC.2016.7571287	
Robust Extraction of Blood Vessels for Retinal Recognition	2015
<i>Zahra Waheed Muhammad Usman Akram Amna Waheed Arslan Shaukat</i>	
<i>2015 Second International Conference on Information Security and Cyber Forensics (InfoSec), res.country(247,)</i>	
Citations: 7	
DOI: 10.1109/InfoSec.2015.7435497	
ECG Based Biometric Identification for Population with Normal and Cardiac Anomalies using Hybrid HRV and DWT Features	2015
<i>Muhammad Najam Dar Muhammad Usman Akram Arslan Shaukat Muazzam Ali Khan</i>	
<i>2015 5th International Conference on IT Convergence and Security (ICITCS), res.country(157,)</i>	
Citations: 28	
DOI: 10.1109/ICITCS.2015.7292977	
Facial Expression Recognition using Multiple Feature Sets	2015
<i>Arslan Shaukat Mansoor Aziz M Usman Akram</i>	
<i>2015 5th International Conference on IT Convergence and Security (ICITCS), res.country(157,)</i>	
Citations: 6	
DOI: 10.1109/ICITCS.2015.7292981	
Identifying Best Feature Subset for Cardiac Arrhythmia Classification	2015
<i>Khalid Ahmed Khan Niazi Shoab A Khan Arslan Shaukat Mahmood Akhtar</i>	
<i>2015 Science and Information Conference, SAI 2015, res.country(231,)</i>	
Citations: 24	
DOI: 10.1109/SAI.2015.7237188	
Daily Sound Recognition for Elderly People using Ensemble Methods	2014
<i>Arslan Shaukat Muhammad Ahsan Ali Hassan Farhan Riaz</i>	
<i>2014 11th International Conference on Fuzzy Systems and Knowledge Discovery (FSKD), res.country(48,)</i>	
Citations: 11	
DOI: 10.1109/FSKD.2014.6980871	
Hybrid feature selection and tumor identification in brain MRI using swarm intelligence	2013
<i>Atiq ur Rehman Aasia Khanum Arslan Shaukat</i>	
<i>2013 11th International Conference on Frontiers of Information Technology, res.country(177,)</i>	
Citations: 9	
DOI: 10.1109/FIT.2013.17	
FPGA accelerated computing platform for MATLAB and C/C++	2013

Rizwan Rasul Abdul Mutaal Nazar Abbas Saqib Mohammad Kaleem Arslan Shaukat Aasia Khanum Muazzam A. Khan
2013 11th International Conference on Frontiers of Information Technology, res.country(177,)

Citations: 4
DOI: 10.1109/FIT.2013.38

Automated plant disease analysis (APDA): Performance comparison of machine learning techniques 2013

Asman Akhtar Aasia Khanum Shoab A Khan Arslan Shaukat
2013 11th International Conference on Frontiers of Information Technology, res.country(177,)

Citations: 62
DOI: 10.1109/FIT.2013.19

Automatic Music Genres Classification as a Pattern Recognition Problem 2013

Ihtisham Ul Haq Fauzia Khan Sana Sharif Arslan Shaukat
2013 The 6th International Conference on Machine Vision, res.country(231,)

Citations: N/A
DOI: 10.1117/12.2051595

Covariate Shift Approach for Invariant Texture Classification 2013

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

A Computer Aided System for Grading of Maculopathy 2012

Anam Tariq M Usman Akram Arslan Shaukat Shoab A Khan
2012 Cairo International Biomedical Engineering Conference (CIBEC) , res.country(65,)

Citations: 15
DOI: 10.1109/CIBEC.2012.6473318

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