Asim Dilawar Bakhshi

Defence Faculty

Military College of Signals

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LinkedIn:



About

Dr. Asim Dilawar Bakhshi is working as Defence Faculty in the Military College of Signals. Dr. Asim Dilawar Bakhshi has a PhD in Digital Signal Processing. Dr. Asim Dilawar Bakhshi has published 23 research articles & conference papers having a citation count of 210, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Digital Signal Processing UET Lahore , Pakistan	2007 - 2012
ВЕ	1993 - 1996
F.Sc	1990 - 1992
Matric (SSC)	1987 - 1990
Experience	
Defence Faculty Military College of Signals	2022- Present
Defence Faculty Military College of Signals	2021 - 2022
,	- Present
Professional Memberships	

PEC Since 1996

Research Projects

National Projects

AI STP- Web Appl Security Evaluation and Health Informatics

Funding Agency: Army
Amount: PKR 15,060,000.00
Status: Approved_inprocess

International Projects

Research Articles

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

2025

2022

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

MangiSpectra: A Multivariate Phenological Analysis Framework Leveraging UAV Imagery and LSTM for Tree Health and Yield Estimation in Mango Orchards

2025

Remote Sensing, Volume 17(4), Article Number 703	
Impact Factor: 4.200 Quartile: 1 Citations: 1	
DOI: https://doi.org/10.3390/rs17040703	
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 Hus Wadood Abdul	ssain
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	
High-Precision Mango Orchard Mapping Using a Deep Learning Pipeline Leveraging Object Detection	2024
and Segmentation	
Asim Dilawar Bakhshi Muhammad Shahid Iqbal Ejaz Hussain Javed Iqbal Muhammad Munir Afsar	
Remote Sensing, Volume 16(17), Article Number 3207	
Impact Factor: 4.200 Quartile: 1 Citations: 3	
DOI: https://doi.org/10.3390/rs16173207	
A deep learning-based framework for object recognition in ecological environments with dense focal	2024
loss and occlusion	
Muhammad Munir Afsar Asim Dilawar Bakhshi Ejaz Hussain Javed Iqbal	
Neural Computing and Applications, Volume 36, Issue 16, Pages 9591-9604	
Impact Factor: 4.500 Quartile: 2 Citations: 2	
DOI: https://doi.org/10.1007/s00521-024-09582-5	
Medical image fusion using non subsampled contourlet transform and iterative joint filter	2021
Abdul ghafoor Asim Dilawar Bakhshi Nuwayrah Jawaid Saghir M Munawwar Iqbal Ch	
Multimedia Tools and Applications, Pages 1-15	
Impact Factor: 2.577 Quartile: 2 Citations: 10 DOI: https://doi.org/10.1007/s11042-021-11753-8	
IoTBoT-IDS: A novel statistical learning-enabled botnet detection framework for protecting networks of	2021
smart cities	
Asim Dilawar Bakhshi Javed Ashraf Marwa Keshk Nour Moustafa Mohamed Abdel-Basset Hasnat Khurshid Reham R.Mostafa Sustainable Cities and Society, Volume 72, Article Number 103041	
Impact Factor: 10.696 Quartile: 1 Citations: 140	
DOI: doi.org/10.1016/j.scs.2021.103041	
Novel Deep Learning-Enabled LSTM Autoencoder Architecture for Discovering Anomalous Events	2021
From Intelligent Transportation Systems	
Asim Dilawar Bakhshi Javed Ashraf Nour Moustafa Hasnat Khurshid Abdullah Javed Amin Beheshti	
IEEE Transactions on Intelligent Transportation Systems, Volume 22, No. 7, Pages 4507-4518 Impact Factor: 9.551 Quartile: 1	
DOI: 1109/TITS.2020.3017882	
An Application of Peircean Triadic Logic: Modelling Vagueness	2019
Asim Dilawar Bakhshi Asim Raza Basit Koshul	
Journal of Logic, Language and Information, Volume 28, Pages 389-426	
Impact Factor: 0.440 Quartile: 4	
DOI: 10.1007/s10849-019-09287-2	
Active contour-based clutter defiance scheme for correlation filters	2019
Ahmed Bilal Awan Asim Dilawar Bakhshi Muhammad Abbas Saad Rehman	
Electronics Letters , Volume 55, Issue 9, Pages 525-527	
Impact Factor: 1.316 Quartile: 3 Citations: 4	
DOI: 10.1049/el.2018.7955	
Composite filtering strategy for improving distortion invariance in object recognition	2018
Asim Dilawar Bakhshi Ahmed Bilal Awan Saad Rehman	
IET Image Process, Volume 12, Issue 8, Pages 1499–1509	
Impact Factor: 2.004 Quartile: 3 Citations: 8	
DOI: 10.1049/iet-ipr.2017.1147	

2014

A template matched-filter based scheme for detection and estimation of t-wave alternans

Sajid Bashir Asim Dilawar Bakhshi Mohammad Ali Maud

Biomedical Signal Processing and Control, Volume 13, Pages 247-261

Impact Factor: 1.419 | Quartile: 3 | Citations: 17 DOI: https://doi.org/10.1016/j.bspc.2014.05.003

Application of continuous-time wavelet entropy for detection of cardiac repolarisation alternans

2013

Asim Dilawar Bakhshi Sajid Bashir Asim Loan Muhammad Ali Maud

IET Signal Processing, Volume 7, Issue 8, Pages 783-790

Impact Factor: 0.691 | Quartile: 3 | Citations: 6

DOI: doi.org/10.1049/iet-spr.2012.0128

Non-linear trend estimation of cardiac repolarization using wavelet thresholding for improved T-wave alternans analysis

2013

Asim Dilawar Bakhshi S. Bashir S.I. Shah M.A. Maud

Digital Signal Processing, Volume 23, Issue 4, Pages 1197-1208

Impact Factor: 1.495 | Quartile: 2 | Citations: 7

DOI: 10.1016/j.dsp.2013.03.006

Performance evaluation of diverse T-wave alternans estimators under variety of noise characterizations and alternans distributions

2012

Asim Dilawar Bakhshi Sajid Bashir Imran Shafi Mohammad Ali Maud

Australasian Physical & Engineering Sciences in Medicine, Volume 35, Pages 439-454

Impact Factor: 0.885 | Quartile: 4 | Citations: 1

DOI: 10.1007/s13246-012-0170-0

An improved statistical representation for ECG electrode movement and muscular activity noises in the context of T-wave alternan estimation

2012

Asim Dilawar Bakhshi S. Bashir M.A. Maud

Biomedical Signal Processing and Control, Volume 8, Issue 3, Pages 297-301

Impact Factor: 1.074 | Quartile: 3 | Citations: 8 DOI: doi.org/10.1016/j.bspc.2012.11.004

Detection of ECG T-wave Alternans Using Maxima of Continuous-Time Wavelet Transform Ridges

2012

Asim Dilawar Bakhshi Abrar Ahmed Sardar Muhammad Gulfam Ali Khaqan Azhar Yasin Raja Ali Riaz Khurram Saleem Alimgeer Shahzad A. Malik Shahid A. Khan Aamir Hanif Dar

Przeglad Elektrotechniczny, Volume 88, No. 12b, Pages 35-38

Impact Factor: -

DOI: NA

Pattern synthesis optimization of 3-D ODAR based on improved GA using LSFE method

2011

Asim Dilawar Bakhshi Long Wei-jun Ben De Zhang Gong

Journal of Harbin Institute of Technology (New Series), Volume 18, No. 1, Pages 96-100

Impact Factor: -

DOI: 10.11916/j.issn.1005-9113.2011.01.018

Conference Proceedings

Citations: N/A

DOI: 10.1109/ICIET.2010.5625733

Empirical mode decomposition for improved least square T-wave alternans estimation 2018 Ehsan Ullah Asim Dilawar Bakhshi Muhammad Majid Sajid Bashir 2018 15th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,) Citations: N/A DOI: 10.1109/IBCAST.2018.8312245 Empirical mode decomposition template matched filter for detection and estimation of T-wave 2016 alternans Asim Dilawar Bakhshi Muhammad Latif Sajid Bashir Hafiz M. Ali Computing in Cardiology Conference (CinC). IEEE, 2016, res.country(38,) Citations: N/A **DOI:** 2325-887X A Bayesian filtering application for T-wave alternans analysis 2015 Azeem Irshad Asim Dilawar Bakhshi Sajid Bashir 2015 12th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,) Citations: N/A DOI: 10.1109/IBCAST.2015.7058508 Aggregate spectrogram based classification of Holter ECG signals for wireless sensor networks 2012 Asim Dilawer Bakhshi Mohammad Ali Maud Khalid Mehmood Aamir Asim Loan 2012 International Conference on Emerging Technologies, res.country(177,) Citations: N/A DOI: 10.1109/ICET.2012.6375455 Cardiac arrhythmia detection using instantaneous frequency estimation of ECG signals 2010 Asim Dilawar Bakhshi Muhammad Ali Maud Khalid Mehmood Aamir Asim Loan 2010 International Conference on Information and Emerging Technologies. IEEE, 2010, res.country(177,)