Muhammad Moazam Fraz

Professor

School of Electrical Engineering and Computer Science

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About

Dr. Muhammad Moazam Fraz is working as Professor in the School of Electrical Engineering and Computer Science. Dr. Muhammad Moazam Fraz has a PhD in Computer Vision and Pattern Recognition. Dr. Muhammad Moazam Fraz has published 136 research articles & conference papers having a citation count of 4528, carried out 14 projects and filed 13 intellectual property.

Qualifications

PhD in Computer Vision and Pattern Recognition 2010 - 2013
Kingston University , United Kingdom

MS in Computer Software Engineering 2005 - 2008
NUST, Islamabad , Pakistan

BS in Software Engineering 1999 - 2003
Foundation University Islamabad , Pakistan

Experience

Professor 2023- Present
School of Electrical Engineering and Computer Science

Associate Professor 2019 - 2023
School of Electrical Engineering and Computer Science

Assistant Professor 2014 - 2019
School of Electrical Engineering and Computer Science

Assistant Professor 2014 - 2014
School of Electrical Engineering and Computer Science

Senior Research Fellow 2018 - 2019
University of Warwick , Coventry, United Kingdom

Post Doctoral Research Asst. 2013 - 2014
Kingston University London , Kingston Upon Thames, London

Principal Software Engineer 2003 - 2010
Elixir Technologies Corporation , TF Complex

Awards

SEECS Best Researcher 2021
SEECS Best Researcher 2020

World Top 2% researchers 2020

UK Alumni Award 2020
British Council's UK Alumni Awards 2020 in the Professional Achievement category

Rutherford Fellowship 2018
Rutherford Visiting Fellow : The Alan Turing Institute United Kingdom (UK's National Center for Data Science and Artificial Intelligence)

Best Graduate Award 2003
Gold Medal for 'Best Graduate Award'

President's Gold Medal 2003
Gold Medal for securing Top Position in the batch.

Professional Memberships

IEEE

Research Projects

National Projects

Interactive Wellness Monitoring Platform with KIOSK Interface and Gamification 2025
Funding Agency: NUST
Amount: PKR 500,000.00
Status: Approved_inprocess

Ba-Ikhtiyar Jawan: Upscaling & Digitisation of Vocational Education Curriculum in Pakistan 2025
Funding Agency: DAAD - German Academic Exchange Service
Amount: PKR 59,589,000.00
Status: Approved_inprocess

S2Cool : Super-efficient Sustainable Cooling Solution for All Applications 2025
Funding Agency: UK Research and Innovation
Amount: PKR 93,850,000.00
Status: Approved_inprocess

ICESCO Chair of Data Science and Analytics for Business at NUST 2023
Funding Agency: Islamic World Educational, Scientific and Cultural Organization (ICESCO)
Amount: PKR 22,920,000.00
Status: Approved_inprocess

Design and Development Indigenous BaatGPT with AGI Applications Support (Phase-I) 2023
Funding Agency: NUST
Amount: PKR 80,000,000.00
Status: Completed

CASREW : Uncovering Abiotic Stress in Rain-Fed Wheat Crop through UAV based Multi-Sensor Imagery Fusion 2023
Funding Agency: DAAD - German Academic Exchange Service
Amount: PKR 15,406,148.00
Status: Approved_inprocess

Towards on-device Classification of Fruit Diseases 2022
Funding Agency: NUST
Amount: PKR 1,000,000.00
Status: Completed

Enabling Smart Yield Boosting: Rice Phenology Estimation Using Airborne Multispectral Remote Sensing Data 2021
Funding Agency: DAAD
Amount: PKR 8,711,605.00
Status: Completed

CoPEST : Cotton Pest Prevalence Estimation System for Early Warning using UAV & AIoT 2021
Funding Agency: DAAD Germany
Amount: PKR 7,934,530.00
Status: Approved_inprocess

An AI enabled quasi-real-time water quality monitoring for early chemical and/or bio-contamination detection 2021
Funding Agency: Asi@Connect
Amount: PKR 29,699,329.00
Status: Approved_inprocess

PEEOS: Phenology Estimation of Rice and Wheat in Pakistan using Earth Observation Satellite Imagery 2021
Funding Agency: HEC
Amount: PKR 19,950,000.00
Status: Completed

AIDPath: AI based Digital Pathology for precision cancer diagnostics 2021
Funding Agency: NCAI
Amount: PKR 1,368,000.00
Status: Completed

International Projects

Industry Projects

National Projects

8th Quarterly Payment of NUST-OneScreen Collaboration 2023

Client: OneScreen Solution (registered as ClaryIcon)

Amount: PKR 1,506,176.00

Status: Completed

SiBot: A Spin-Off Company of NUST Flagship Project BaatGPT 2024

Client: NUST

Amount: PKR 80,000,000.00

Status: Approved_inprocess

International Projects

Research Articles

TVFace: towards large-scale unsupervised face recognition in video streams 2025

Atif Khurshid Bostan Khan Muhammad Shahzad Muhammad Moazam Fraz

Pattern Analysis and Applications , Volume 28, Article Number 88

Impact Factor: 3.700 | **Quartile:** 2

DOI: 10.1007/s10044-025-01464-3

CompSafeNano project: NanoInformatics approaches for safe-by-design nanomaterials 2025

Muhammad Moazam Fraz Dimitrios Zouraris Angelos Mavrogiorgis Andreas Tsoumanis Laura Aliisa Saarimäki Giusy del Giudice Iseult Lynch Antreas Afantitis

Computational and Structural Biotechnology Journal, Volume:29, Pages 13-28

Impact Factor: 4.500 | **Quartile:** 1 | **Citations:** 2

DOI: 10.1016/j.csbj.2024.12.024

A two-stage regression framework for automated cephalometric landmark detection incorporating semantically fused anatomical features and multi-head refinement loss 2024

Muhammad Anwaar Khalid Atif Khurshid Kanwal Zulfiqar Ulfat Bashir Muhammad Moazam Fraz

Expert Systems with Applications , Volume 255, Part D, Article Number 124840

Impact Factor: 7.500 | **Quartile:** 1 | **Citations:** 7

DOI: 10.1016/j.eswa.2024.124840

Beyond local patches: Preserving global-local interactions by enhancing self-attention via 3D point cloud tokenization 2024

Muhammad Shahzad Saqib Ali Khan Muhammad Moazam Fraz Xiao Xiang Zhu Muhammad Qasim Khan

Pattern Recognition , Volume 155, Article Number 110712

Impact Factor: 7.500 | **Quartile:** 1

DOI: 10.1016/j.patcog.2024.110712

Cloud security in the age of adaptive adversaries: A game theoretic approach to hypervisor-based intrusion detection 2024

Sadia Ahsan Saadat Yasir Faheem Zainab Abaid Muhammad Moazam Fraz

Journal of Systems Architecture, Volume 156, Article Number 103281

Impact Factor: 3.8 | **Quartile:** 1

DOI: https://doi.org/10.1016/j.sysarc.2024.103281

AFINITI: Attention-Aware Feature Integration for Nuclei Instance Segmentation and Type Identification 2024

Esha Sadia Nasir Shahzad Rasool Raheel Nawaz Muhammad Moazam Fraz

Neural Computing and Applications, Pages 1-19

Impact Factor: 4.500 | **Quartile:** 2 | **Citations:** 1

DOI: 10.1007/s00521-024-10114-4

Vision Based 3D Localization of UAV Using Deep Image Matching 2024

Mansoor Khurshid Muhammad Shahzad Hasan Ali Khattak Muhammad Imran Malik Muhammad Moazam Fraz

IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, Volume: 17, Pages: 12020-12030

Impact Factor: 4.700 | **Quartile:** 1 | **Citations:** 3

DOI: 10.1109/JSTARS.2024.3422310

Intelligent Fisheries: Cognitive Solutions for Improving Aquaculture Commercial Efficiency Through Enhanced Biomass Estimation and Early Disease Detection 2024

Kanwal Aftab Linda Tschirren Boris Pasini Peter Zeller Bostan Khan Muhammad Moazam Fraz
Cognitive Computation, Volume: 16, Pages: 2241-2263,
Impact Factor: 4.3 | **Quartile:** 1 | **Citations:** 3
DOI: 10.1007/s12559-024-10292-2

From Pixels to Prognosis: A Survey on AI-Driven Cancer Patient Survival Prediction Using Digital Histology Images 2024
Muhammad Moazam Fraz Arshi Pervaiz Esha Sadia Nasir
Journal of Imaging Informatics in Medicine, Pages 1-24
Impact Factor: N/A | **Citations:** 4
DOI: https://doi.org/10.1007/s10278-024-01049-2

PakVehicle-ReID: a multi-perspective benchmark for vehicle re-identification in unconstrained urban road environment 2023
Hasan Ali Asghar Bostan Khan Zuhair Zafar Aznul Qalid Md Sabri Muhammad Moazam Fraz
Multimedia Tools and Applications, Pages 1-16
Impact Factor: 3.6 | **Quartile:** 2 | **Citations:** 4
DOI: https://doi.org/10.1007/s11042-023-17070-6

CGA-Net: channel-wise gated attention network for improved super-resolution in remote sensing imagery 2023
Bostan Khan Adeel Mumtaz Zuhair Zafar Mohamed Sedkey Elhadj Benkhelifa Muhammad Moazam Fraz
Machine Vision and Applications, Volume 34, Issue 6, Article Number 128
Impact Factor: 3.3 | **Quartile:** 2 | **Citations:** 3
DOI: 10.1007/s00138-023-01477-0

Person re-identification: A retrospective on domain specific open challenges and future trends 2023
Asmat Zahra Nazia Perwaiz Muhammad Shahzad Muhammad Moazam Fraz
Pattern Recognition, Volume 142, Article Number: 109669
Impact Factor: 8.0 | **Quartile:** 1 | **Citations:** 58
DOI: 10.1016/j.patcog.2023.109669

Breast lesions segmentation and classification in a two-stage process based on Mask-RCNN and Transfer Learning 2023
Hama Soltani Mohamed Amroune Issam Bendib Mohamed-Yassine Haouam Elhadj Benkhelifa Muhammad Moazam Fraz
Multimedia Tools and Applications, Pages 1-18
Impact Factor: 3.6 | **Quartile:** 2 | **Citations:** 5
DOI: https://doi.org/10.1007/s11042-023-16895-5

Boosting facial recognition capability for faces wearing masks using attention augmented residual model with quadruplet loss 2023
Muhammad Aasharib Nawshad Ahsan Saadat Muhammad Moazam Fraz
Machine Vision and Applications, Volume 34, Issue 6, Article Number 108
Impact Factor: 3.3 | **Quartile:** 2 | **Citations:** 4
DOI: https://doi.org/10.1007/s00138-023-01461-8

Vision Transformers in medical computer vision—A contemplative retrospection 2023
Arshi Pervaiz Muhammad Anwar Khalid Rukhsana Zafar Huma Ameer Muhammad Ali Muhammad Moazam Fraz
Engineering Applications of Artificial Intelligence, Volume 122, Article Number 106126
Impact Factor: 7.802 | **Quartile:** 1 | **Citations:** 166
DOI: https://doi.org/10.1016/j.engappai.2023.106126

TransPose Re-ID: transformers for pose invariant person Re-identification 2023
Nazia Perwaiz Muhammad Shahzad Muhammad Moazam Fraz
Journal of Experimental & Theoretical Artificial Intelligence, Pages:14
Impact Factor: 2.296 | **Quartile:** 3
DOI: 10.1080/0952813X.2023.2214570

Nuclei probability and centroid map network for nuclei instance segmentation in histology images 2023
Syed Nauyan Rashid Muhammad Moazam Fraz
Neural Computing and Applications, Vol:35, Pages15447-15460
Impact Factor: 6.0 | **Quartile:** 2 | **Citations:** 13
DOI: 10.1007/s00521-023-08503-2

Robust malware clustering of windows portable executables using ensemble latent representation and distribution modeling 2023

Syed Khurram Jah Rizwi Muhammad Moazam Fraz

Concurrency and Computation Practice and Experience, Volume 35, Issue 8, Article Number e7621

Impact Factor: 1.831 | **Quartile:** 3

DOI: https://doi.org/10.1002/cpe.7621

Residual learning with annularly convolutional neural networks for classification and segmentation of 3D point clouds 2023

Rabbia Hassan Muhammad Moazam Fraz Muhammad Shahzad Muhammad Asif Ali Rajput

Neurocomputing , Volume 526, Pages 96-108

Impact Factor: 5.779 | **Quartile:** 2 | **Citations:** 15

DOI: 10.1016/j.neucom.2023.01.026

Ubiquitous vision of transformers for person re-identification 2023

Nazia Perwaiz Muhammad Shahzad Muhammad Moazam Fraz

Machine Vision and Applications , Volume 34, Issue 2, Article Number 27

Impact Factor: 2.983 | **Quartile:** 2 | **Citations:** 6

DOI: 10.1007/s00138-023-01376-4

Attention augmented distance regression and classification network for nuclei instance segmentation and type classification in histology images 2023

Ghulam Murtaza Dogar Muhammad Moazam Fraz Muhammad Shahzad

Biomedical Signal Processing and Control, Volume 79, Part 2, Article Number 104199

Impact Factor: 5.076 | **Quartile:** 2 | **Citations:** 24

DOI: 10.1016/j.bspc.2022.104199

Nuclei and glands instance segmentation in histology images: a narrative review 2022

Esha Sadia Nasir Arshi Pervaiz Muhammad Moazam Fraz

Artificial Intelligence Review , Pages 1-56

Impact Factor: 9.588 | **Quartile:** 1 | **Citations:** 13

DOI: 10.1007/s10462-022-10372-5

Smart surveillance with simultaneous person detection and re-identification 2022

Nazia Perwaiz Muhammad Moazam Fraz Muhammad Shahzad

Multimedia Tools and Applications , Pages 1-22

Impact Factor: 2.577 | **Quartile:** 2 | **Citations:** 4

DOI: 10.1007/s11042-022-13458-y

Per-former: rethinking person re-identification using transformer augmented with self-attention and contextual mapping 2022

Nazia Perwaiz Muhammad Moazam Fraz Muhammad Shahzad

Visual Computer , Pages 1-16

Impact Factor: 2.835 | **Quartile:** 2 | **Citations:** 7

DOI: 10.1007/s00371-022-02577-0

Orientation aware weapons detection in visual data: a benchmark dataset 2022

Nazeef Ul Haq Muhammad Moazam Fraz Tufail Sajjad Shah Hashmi Muhammad Shahzad

Computing , Pages 1-24

Impact Factor: 2.420 | **Quartile:** 2 | **Citations:** 7

DOI: https://doi.org/10.1007/s00607-022-01095-0

Detection and Grading of Hypertensive Retinopathy Using Vessels Tortuosity and Arteriovenous Ratio 2022

Sufian Al Badawi Muhammad Moazam Fraz Muhammad Shahzad Imran Mahmood Sajid Javed Emad Mosalam Ajay Kamath Nileshwar

Journal of Digital Imaging, Pages 1-21

Impact Factor: 4.056 | **Quartile:** 1 | **Citations:** 28

DOI: 10.1007/s10278-021-00545-z

PROUD-MAL: static analysis-based progressive framework for deep unsupervised malware classification of windows portable executable 2021

Syed Khurram Jah Rizwi Warda Aslam Muhammad Shahzad Shahzad Saleem Muhammad Moazam Fraz

Complex & Intelligent Systems , Pages 1-13

Impact Factor: 4.927 | **Quartile:** 2 | **Citations:** 32

DOI: https://doi.org/10.1007/s40747-021-00560-1

A multiapproach generalized framework for automated solution suggestion of support tickets 2021

Syed S. Ali Zaidi Muhammad Moazam Fraz Muhammad Shahzad Sharifullah Khan

International Journal of Intelligent Systems, Pages 1-28

Impact Factor: 8.709 | **Quartile:** 1 | **Citations:** 14

DOI: https://doi.org/10.1002/int.22701

Stochastic attentions and context learning for person re-identification 2021

Nazia Perwaiz Muhammad Moazam Fraz Muhammad Shahzad

PeerJ Computer Science, Volume 7, Article Number e447

Impact Factor: 2.411 | **Quartile:** 2 | **Citations:** 7

DOI: 10.7717/peerj-cs.447

Spectrum of Advancements and Developments in Multidisciplinary Domains for Generative Adversarial Networks (GANs) 2021

Syed Khurram Jah Rizwi Muhammad Moazam Fraz Muhammad Ajmal Azad

Archives of Computational Methods in Engineering, Pages 1-19

Impact Factor: 7.302 | **Quartile:** 1 | **Citations:** 25

DOI: https://doi.org/10.1007/s11831-021-09543-4

Modeling, simulation and forecasting of wind power plants using agent-based approach 2020

Imran Mahmood Anis-ur-Rahman Mahe Mobeen Shahzad Younis Asad Waqar Malik Muhammad Moazam Fraz Kafait Ullah

Journal of Cleaner Production, Volume 276, Article Number 124172

Impact Factor: 9.297 | **Quartile:** 1 | **Citations:** 15

DOI: https://doi.org/10.1016/j.jclepro.2020.124172

Motion Reveal Emotions: Identifying Emotions from Human Walk Using Chest Mounted Smartphone 2020

Muhammad Zeeshan Muhammad Arslan Hashmi Qaiser Riaz Muhammad Shahzad Muhammad Moazam Fraz

IEEE Sensors Journal, Volume 20, Issue 22, Pages 13511-13522

Impact Factor: 3.301 | **Quartile:** 2 | **Citations:** 34

DOI: 10.1109/JSEN.2020.3004399

DCARN: Deep Context Aware Recurrent Neural Network for Semantic Segmentation of Large Scale Unstructured 3D Point Cloud 2020

Muhammad Moazam Fraz Saba Mehmood Muhammad Shahzad

Neural Processing Letters, Volume 39, Issue 7, Pages 2395-2405

Impact Factor: 2.908 | **Quartile:** 2 | **Citations:** 2

DOI: 10.1007/s11063-020-10368-8

Context-Aware Convolutional Neural Network for Grading of Colorectal Cancer Histology Images 2020

Muhammad Shaban Ruqayya Awan Muhammad Moazam Fraz Ayesha Azam Yee-Wah Tsang David Snead Nasir M Rajpoot

IEEE Transactions on Medical Imaging, Volume 39, Issue 7, Pages 2395-2405

Impact Factor: 10.048 | **Quartile:** 1 | **Citations:** 132

DOI: https://doi.org/10.1109/TMI.2020.2971006

Cellular community detection for tissue phenotyping in colorectal cancer histology images 2020

Sajid Javaid Arif Mehmood Muhammad Moazam Fraz Navid AlemiKoohbanani Ksenija Benes Yee-WahTsang Katherine Hewitt David Epstein David Snead Nasir M Rajpoot

Medical Image Analysis, Volume 63, Article Number 101696

Impact Factor: 8.545 | **Quartile:** 1 | **Citations:** 123

DOI: https://doi.org/10.1016/j.media.2020.101696

Multi-sized Object Detection Using Spaceborne Optical Imagery 2020

Muhammad Haroon Muhammad Shahzad Muhammad Moazam Fraz

IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, Volume 13, Pages 3032-3046

Impact Factor: 3.784 | **Quartile:** 2 | **Citations:** 51

DOI: 10.1109/JSTARS.2020.3000317

On the frontiers of pose invariant face recognition: a review 2020

Sheikh Bilal Ahmed Syed Farooq Ali Jameel Ahmad Muhammad Adnan Muhammad Moazam Fraz

Artificial Intelligence Review, Volume 53, Issue 5, Pages 2571-263

Impact Factor: 8.139 | **Quartile:** 1 | **Citations:** 31

DOI: 10.1007/s10462-019-09742-3

Dense-CaptionNet: a Sentence Generation Architecture for Fine-grained Description of Image Semantics 2020

Imran Khurram Muhammad Moazam Fraz Muhammad Shahzad Nasir M Rajpoot

Cognitive Computation , Pages 1-27

Impact Factor: 5.418 | **Quartile:** 1 | **Citations:** 11

DOI: https://doi.org/10.1007/s12559-019-09697-1

A vehicular network–based intelligent transport system for smart cities 2019

Tayyaba Zaheer Muhammad Moazam Fraz Asad Waqar Malik Ayesha Zahir Anis-ur-Rahman

International Journal of Distributed Sensor Networks., Volume: 15, issue: 11, Article Number: 1550147719888845

Impact Factor: 1.151 | **Quartile:** 4 | **Citations:** 21

DOI: https://doi.org/10.1177/1550147719888845

FABnet: feature attention-based network for simultaneous segmentation of microvessels and nerves in routine histology images of oral cancer 2019

Muhammad Moazam Fraz Syed Ali Khurram S. Graham Muhammad Shaban Maryam Hassan Asif Loya Nasir M Rajpoot

Neural Computing and Applications , Pages 1-14

Impact Factor: 4.774 | **Quartile:** 1 | **Citations:** 48

DOI: https://doi.org/10.1007/s00521-019-04516-y

A Novel Digital Score for Abundance of Tumour Infiltrating Lymphocytes Predicts Disease Free Survival in Oral Squamous Cell Carcinoma 2019

Najah Alsubaie Iqra Masood Sajid Mushtaq Mariam Hassan Asif Loya Nasir M. Rajpoot Muhammad Moazam Fraz Muhammad Shaban Syed Ali Khurram

Nature Scientific Reports , Volume 9, Article Number 13341

Impact Factor: 3.998 | **Quartile:** 2 | **Citations:** 157

DOI: 10.1038/s41598-019-49710-z

VR-PROUD: Vehicle Re-identification using PROgressive Unsupervised Deep architecture 2019

Muhammad Shahzad Raja Muhammad Saad Bashir Muhammad Moazam Fraz

Pattern Recognition , Volume: 90 Pages: 52-65, June 2019

Impact Factor: 7.196 | **Quartile:** 1 | **Citations:** 61

DOI: 10.1016/j.patcog.2019.01.008

DPRNet: Deep 3D Point based Residual Network for Semantic Segmentation and Classification of 3D Point Clouds 2019

Muhammad Shahzad Saira Arshad Qaiser Riaz Muhammad Moazam Fraz

IEEE Access , Volume: 7, Pages: 68892-68904

Impact Factor: 3.745 | **Quartile:** 1 | **Citations:** 30

DOI: 10.1109/ACCESS.2019.2918862

Multiloss Function Based Deep Convolutional Neural Network for Segmentation of Retinal Vasculature into Arterioles and Venules 2019

Muhammad M. Fraz Sufian Al Badawi

BioMed Research International , BIOMED RESEARCH INTERNATIONAL Article Number: 4747230, 2019

Impact Factor: 2.276 | **Quartile:** 3 | **Citations:** 19

DOI: 10.1155/2019/4747230

Retinal Vasculometry Associations with Cardiometabolic Risk Factors in the European Prospective Investigation of Cancer-Norfolk Study 2019

Christopher G. Owen Alicja R. Rudnicka Roshan A.Welikala Sarah A. Barman Robert Luben Shabina A Hayat Paul J Foster, Kay-Tee Khaw David P Strachan Peter H Whincup Muhammad Moazam Fraz

Ophthalmology , Ophthalmology, Volume: 126, Issue: 1, Pages: 96-106, January 2019

Impact Factor: 8.470 | **Quartile:** 1 | **Citations:** 57

DOI: 10.1016/j.ophtha.2018.07.022

Person Re-Identification Using Hybrid Representation Reinforced by Metric Learning 2018

Muhammad Shahzad Nazia Perwaiz Muhammad Moazam Fraz

IEEE Access , Volume: 6 Pages: 77334-77349 , November 2018

Impact Factor: 4.098 | **Quartile:** 1 | **Citations:** 32

DOI: 10.1109/ACCESS.2018.2882254

Optimizing the trainable B-COSFIRE filter for retinal blood vessel segmentation 2018

Muhammad M. Fraz Sufian Al Badawi

PeerJ , PEERJ Volume: 6 Article Number: e5855, November 2018

Impact Factor: 2.358 | **Quartile:** 2 | **Citations:** 18

DOI: 10.7717/peerj.5855

Computational Methods for Exudates Detection and Macular Edema Estimation in Retinal Images: A Survey 2018

M. Bader Dr Asad Waqar Malik S. A. Barman Muhammad Moazam Fraz

Archives of Computational Methods in Engineering

Impact Factor: 7.242 | **Quartile:** 1 | **Citations:** 17

DOI: 10.1007/s11831-018-9281-4

A Correction to the Article ?Fast Optic Disc Segmentation in Retina Using Polar Transform" 2018

Muhammad Moazam Fraz Muhammad Nauman Zahoor

IEEE Access, Volume: 6) Page(s): 4845-4849

Impact Factor: 4.098 | **Quartile:** 1 | **Citations:** 16

DOI: 10.1109/ACCESS.2018.2790040

Fast Optic Disc Segmentation in Retina Using Polar Transform 2017

Muhammad Moazam Fraz Muhammad Nauman Zahoor

IEEE Access, Volume 5, Pages 12293-12300

Impact Factor: 3.557 | **Quartile:** 1 | **Citations:** 77

DOI: DOI:10.1109/ACCESS.2017.2723320

Computer Vision Techniques Applied for Diagnostic Analysis of Retinal OCT Images: A Review 2017

Muhammad Usman Sarah A. Barman Muhammad Moazam Fraz

Archives of Computational Methods in Engineering, Volume 24, Issue 3, Pages 449-465

Impact Factor: 6.605 | **Quartile:** 1 | **Citations:** 18

DOI: 10.1007/s11831-016-9174-3

Multiscale segmentation of exudates in retinal images using contextual cues and ensemble classification 2017

Muhammad Moazam Fraz Saqib Zahid Waqas Jahangir Mian Hamayun Sarah A Barman

Biomedical Signal Processing and Control, BIOMEDICAL SIGNAL PROCESSING AND CONTROL Volume: 35 Pages: 50-62, 1 May 2017

Impact Factor: 2.783 | **Quartile:** 2 | **Citations:** 85

DOI: 10.1016/j.bspc.2017.02.012

Localization and segmentation of optic disc in retinal images using circular Hough transform and grow-cut algorithm 2016

Muhammad Moazam Fraz M. Abdullah S. A. Barman

PeerJ, Volume: 4 Article Number: e2003

Impact Factor: 2.177 | **Quartile:** 2 | **Citations:** 105

DOI: 10.7717/peerj.2003

Automated retinal image quality assessment on the UK Biobank dataset for epidemiological studies 2016

RA Welikala Muhammad Moazam Fraz PJ Foster PH Whincup AR Rudnicka G Owen DP Strachan SA Barman

Computers in Biology and Medicine, Volume: 71 Pages: 67-76,

Impact Factor: 1.836 | **Quartile:** 2 | **Citations:** 60

DOI: 10.1016/j.compbiomed.2016.01.027

QUARTZ: Quantitative Analysis of Retinal Vessel Topology and size - An automated system for quantification of retinal vessels morphology 2015

Muhammad Moazam Fraz R.A.Welikala A.R.Rudnicka C.G.Owen D.P.Strachan S.A.Barman

Expert Systems with Applications, ISSN:0957-4174, Volume 42, Issue 20, Pages 7221-7234, 15 November 2015, EXPERT SYSTEMS WITH APPLICATIONS Volume: 42 Issue: 20 Pages: 7221-7234, 15 November 2015

Impact Factor: 2.981 | **Quartile:** 1 | **Citations:** 68

DOI: 10.1016/j.eswa.2015.05.022

Genetic algorithm based feature selection combined with dual classification for the automated detection of proliferative diabetic retinopathy 2015

R.A.Welikala Muhammad Moazam Fraz J. Dehmeshki A. Hoppe V. Tah S. Mann T.H. Williamson S. A. Barman

Computerized Medical Imaging and Graphics, Volume 43, Pages 64-77

Impact Factor: 1.385 | **Quartile:** 3 | **Citations:** 147

DOI: https://doi.org/10.1016/j.compmedimag.2015.03.003

Optic disc detection and boundary extraction in retinal images 2015

A. Basit Muhammad Moazam Fraz

Applied Optics, APPLIED OPTICS Volume: 54 Issue: 11 Pages: 3440-3447, 10 April 2016

Impact Factor: 1.598 | **Quartile:** 2 | **Citations:** 40

DOI: 10.1364/AO.54.003440

Delineation of blood vessels in pediatric retinal images using decision trees-based ensemble classification 2013

Muhammad Moazam Fraz Alicja R. Rudnicka Christopher G. Owen Sarah A. Barman

International Journal of Computer Assisted Radiology and Surgery, Pages 1-17

Impact Factor: 1.659 | **Quartile:** 2 | **Citations:** 63

DOI: https://doi.org/10.1007/s11548-013-0965-9

Application of Morphological Bit Planes in Retinal Blood Vessel Extraction 2013

Muhammad Moazam Fraz Abdul Basit Sarah A Barman

Journal of Digital Imaging, Volume 26(2), Pages 274–286

Impact Factor: 1.200 | **Quartile:** 3 | **Citations:** 93

DOI: 10.1007/s10278-012-9513-3

Quantification of blood vessel calibre in retinal images of multi-ethnic school children using model based approach 2013

A. Hoppe P.H.Whincup P.Remagnino A.R.Rudnicka C.G.Owen Sarah A Barman Muhammad Moazam Fraz

Computerized Medical Imaging and Graphics, Volume 37, Issue 1, Pages 48-60

Impact Factor: 1.496 | **Quartile:** 3 | **Citations:** 20

DOI: https://doi.org/10.1016/j.compmedimag.2013.01.004

An approach to localize the retinal blood vessels using bit planes and centerline detection 2012

Muhammad Moazam Fraz S. A. Barman P. Remagnino A. Hoppe A. Basit B.Uyyanonvara A. R. Rudnicka C. G. Owen

Computer Methods and Programs in Biomedicine, Volume 108, Issue 2, Pages 600–616

Impact Factor: 1.555 | **Quartile:** 1 | **Citations:** 318

DOI: https://doi.org/10.1016/j.cmpb.2011.08.009

Blood vessel segmentation methodologies in retinal images – A survey 2012

Muhammad Moazam Fraz P.Remagnino A.Hoppe B.Uyyanonvara A.R.Rudnicka C.G. Owen S. A. Barman

Computer Methods and Programs in Biomedicine, Volume 108, Issue 1, Pages 407-433

Impact Factor: 1.555 | **Quartile:** 1 | **Citations:** 913

DOI: https://doi.org/10.1016/j.cmpb.2012.03.009

An Ensemble Classification-Based Approach Applied to Retinal Blood Vessel Segmentation 2012

Muhammad Moazam Fraz P.Remagnino A.Hoppe Bunyarit Uyyanonvara A.R.Rudnicka C.G. Owen S. A. Barman

IEEE Transactions on Biomedical Engineering, Volume 59, Issue 9, Pages 2538-2548

Impact Factor: 2.348 | **Quartile:** 2 | **Citations:** 890

DOI: 10.1109/TBME.2012.2205687

Conference Proceedings

Cross-Platform Integration in Legacy Mobile Apps for Code Reuse and Reduced Development Efforts 2024

Muhammad Moazam Fraz Syed Imran Ali Fahad Ahmed Satti Hafiz Syed Muhammad Bilal Ali Hannan Arif

21st International Conference on Frontiers of Information Technology (FIT 2024), res.country(177,)

Citations: N/A

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Merging UAV-Derived Metrics with Crop Physiology to Estimate Sunflower Yield 2024

Muhammad Moazam Fraz Zuhair Zafar Usama Athar Muhammad Ali Haris Khurshid Karsten Berns

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Citations: N/A

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Resolving Community Parking Issues: An IoT Enabled Statistical and Deep Learning Approach for Enhanced Urban Parking Management 2024

Muhammad Moazam Fraz Tayyib Ul Hassan Aamina Binte Khurram Sarah Iqbal Asad Waqar Malik

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Citations: N/A

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Water Stress Diagnosis in Rainfed Wheat Through UAV Multispectral Imagery and IoT Data 2024

Muhammad Ali Usama Athar Zuhair Zafar Karsten Berns Muhammad Moazam Fraz

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Citations: N/A

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Analyzing Fish Wellness Using Spatiotemporal Data & Behavior Recognition 2024

Kanwal Aftab Mammona Qudsia Usama Athar Muhammad Moazam Fraz

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Citations: N/A

DOI: 10.1109/ICET63392.2024.10935173

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Usama Athar Zuhair Zafar Karsten Berns Muhammad Moazam Fraz Muhammad Ali

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Citations: N/A

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Faiqa Mehboob Fahaf Ahmed Satti Syed Imran Ali Muhammad Moazam Fraz

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Citations: N/A

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Bridging the Resolution Gap in Remote Sensing: A Comparative Analysis of Deep Learning Models for Real-World Single Image Super-Resolution 2024

Usama A Shami Bostan Khan Zuhair Zafar Muhammad Moazam Fraz

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Citations: N/A

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Enhancing Cotton Crop Mapping in Pakistan: Integrating Transfer and Active Learning with Remote Sensing Technologies 2024

Noor Us Sabah Zuhair Zafar Fahaf Ahmed Satti Karsten Berns Muhammad Moazam Fraz

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Enhanced Cephalometric Landmark Detection Using Multi-scale Feature Learning and Heatmap Regression 2024

Reeha Khan Muhammad Anwaar Khalid Kanwal Zulfiqar Ulfat Bashir Muhammad Moazam Fraz

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SPOTifying the Sentinel-2 Imagery: Harnessing the Power of Attention in Real World Single Image Super-Resolution 2024

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Yasir Faheem Arsalan Ahmad Muhammad Moazam Fraz Masabah Bint E Islam

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Impact Factor: 1.788

2020

Reviewed Papers for Journals
Impact Factor: 9.71

2019

Reviewed Papers for Journals
Impact Factor: 2.286

2019

Reviewed Papers for Journals

Impact Factor: 2.286

2019

Reviewed Papers for Journals
Impact Factor: 4.292

2019

Reviewed Papers for Journals
Impact Factor: 2.591

2019

Reviewed Papers for Journals

2019

Reviewed Papers for Journals

2019

Reviewed Papers for Journals

2019

Reviewed Papers for Journals

2019

Reviewed Papers for Journals
Impact Factor: 7.816

2019

Reviewed Papers for Journals
Impact Factor: 7.816

2019

Reviewed Papers for Journals
Impact Factor: 4.664

2019

Reviewed Papers for Journals
Impact Factor: 4.098

2019

Reviewed Papers for Journals
Impact Factor: 7.816

2018

Reviewed Papers for Journals
Impact Factor: 7.816

2018

Reviewed Papers for Journals

2018

Reviewed Papers for Journals
Impact Factor: 6.13

2018

Reviewed Papers for Journals

2018

Reviewed Papers for Journals

2018

Reviewed Papers for Journals

2018

Reviewed Papers for Journals

2018

Reviewed Papers for Journals

2018

Reviewed Papers for Journals
Impact Factor: 3.557

2018

Reviewed Papers for Journals
Impact Factor: 2.11

2018

Reviewed Papers for Journals
Impact Factor: 3.557

2018

Reviewed Papers for Journals
Impact Factor: 3.557

2016

Reviewed Papers for Journals

Intellectual Property

Copyrights

StreamFace: A framework for extraction of face datasets from YouTube videos and livestreams 2023
Status: Filed

Improving the Face Recognition Algorithms for the Masked Faces 2023
Status: Filed

Multi-modality in Visual Question Answering using Knowledge Graphs 2023
Status: Filed

ActiPhe: A deep active learning framework for phenotypes labelling in unstructured EHRs 2023
Status: Filed

Disease Specific Knowledge Graphs for Unstructured EMRs and Radiology Reports 2023
Status: Granted Filed

Live News Channels Stream Analytics Framework 2022
Status: Granted Filed

Knowledge-Aware Visual Question Answering Framework for developing visual learning apps for children 2022
Status: Granted Filed

Orientation aware weapons detection in visual data 2021
Status: Filed

Informative Attention Based Person Re-Identification for automated surveillance 2021
Status: Filed

An Attention based Distance Regression CNN for Nuclei Instance Segmentation and Type Classification in Digitized Histology Images 2021
Status: Filed

Static analysis based progressive framework for deep unsupervised malware classification of Windows portable executable 2021
Status: Granted Filed

Stochastic attentions and context learning for person re-identification in surveillance data 2020
Status: Granted Filed

Patents

Improving Image Super Resolution using Squeeze-and-Residual-Excitation with Holistic Attention in Deep Neural Networks 2021
Status: Filed

Industrial Designs

Trademarks

Trainings

Practical AI Simplified for Non-Computing Professionals 2024

Partner: 0

Duration: 02-Jul-2024 to 06-Sep-2024

Programming for AI Systems 2024

Partner: 0

Duration: 02-Jul-2024 to 21-Aug-2024

5 day training on AI, Machine Learning & Data Science 2021

Partner: Pakistan Air Force

Duration: 06-Sep-2021 to 10-Jan-2021

Edge Computing for Computer Vision 2021

Partner: NA

Duration: 23-Aug-2021 to 27-Aug-2021