

Zuhair Zafar

Assistant Professor

School of Electrical Engineering and Computer Science

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About

Dr. Zuhair Zafar is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Zuhair Zafar has a PhD in Computer Science. Dr. Zuhair Zafar has published 19 research articles & conference papers having a citation count of 33, carried out 6 projects and filed 0 intellectual property.

Qualifications

PhD in Computer Science Universität Kaiserslautern , Germany	2014 - 2020
MSc in Computer Engineering Lahore University of Management Sciences , Pakistan	2011 - 2013
B.Sc (Hon) in Telecommunication Government College University Lahore , Pakistan	2006 - 2011
F.Sc in Pre-Engineering Board of Intermediate and Secondary Education, Lahore , Pakistan	2004 - 2006
Matric (SSC) in Science Group FBISE, Islamabad , Pakistan	2002 - 2004

Experience

Assistant Professor School of Electrical Engineering and Computer Science	2024- Present
Assistant Professor School of Electrical Engineering and Computer Science	2021 - 2021
Assistant Professor School of Electrical Engineering and Computer Science	2021 - 2021
Senior Researcher Technische Universitaet Kaiserslautern , Department of Computer Science, Robotics Research Lab, TU Kaiserslautern, Germany	2019 - 2020
Teaching Assistant Technische Universitaet Kaiserslautern , Department of Computer Science, Robotics Research Lab, TU Kaiserslautern, Germany	2016 - 2020
PhD Researcher Technische Universitaet Kaiserslautern , Department of Computer Science, Robotics Research Lab, TU Kaiserslautern, Germany	2015 - 2017
Research Assistant Lahore University of Management Sciences, LUMS , Department of Electrical Engineering, SSE, Lahore University of Management Sciences, LUMS	2013 - 2013
Teaching Assistant Lahore University of Management Sciences, LUMS , Department of Electrical Engineering, SSE, Lahore University of Management Sciences, LUMS	2013 - 2013

Professional Memberships

PEC	Since 2012
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Research Projects

National Projects

S2Cool : Super-efficient Sustainable Cooling Solution for All Applications Funding Agency: UK Research and Innovation Amount: PKR 93,850,000.00 Status: Approved_inprocess	2025
CASREW : Uncovering Abiotic Stress in Rain-Fed Wheat Crop through UAV based Multi-Sensor Imagery Fusion Funding Agency: DAAD - German Academic Exchange Service Amount: PKR 15,406,148.00 Status: Approved_inprocess	2023
Enabling Smart Yield Boosting: Rice Phenology Estimation Using Airborne Multispectral Remote Sensing Data Funding Agency: DAAD Amount: PKR 8,711,605.00 Status: Completed	2021
CoPEST : Cotton Pest Prevalence Estimation System for Early Warning using UAV & AIoT Funding Agency: DAAD Germany Amount: PKR 7,934,530.00 Status: Approved_inprocess	2021
Early Detection of Forest Health Decline using Remote Sensing Data Funding Agency: DAAD Amount: PKR 10,323,394.00 Status: Approved_inprocess	2021
PEEOS: Phenology Estimation of Rice and Wheat in Pakistan using Earth Observation Satellite Imagery Funding Agency: HEC Amount: PKR 19,950,000.00 Status: Completed	2021

International Projects

Research Articles

PakVehicle-ReID: a multi-perspective benchmark for vehicle re-identification in unconstrained urban road environment <i>Hasan Ali Asghar Bostan Khan Zuhair Zafar Aznul Qalid Md Sabri Muhammad Moazam Fraz</i> <i>Multimedia Tools and Applications</i> , Pages 1-16 Impact Factor: 3.6 Quartile: 2 Citations: 4 DOI: https://doi.org/10.1007/s11042-023-17070-6	2023
CGA-Net: channel-wise gated attention network for improved super-resolution in remote sensing imagery <i>Bostan Khan Adeel Mumtaz Zuhair Zafar Mohamed Sedkey Elhadj Benkhelifa Muhammad Moazam Fraz</i> <i>Machine Vision and Applications</i> , Volume 34, Issue 6, Article Number 128 Impact Factor: 3.3 Quartile: 2 Citations: 3 DOI: 10.1007/s00138-023-01477-0	2023

Conference Proceedings

Merging UAV-Derived Metrics with Crop Physiology to Estimate Sunflower Yield <i>Muhammad Moazam Fraz Zuhair Zafar Usama Athar Muhammad Ali Haris Khurshid Karsten Berns</i> <i>2024 International Conference on Frontiers of Information Technology (FIT)</i> , res.country(177,) Citations: N/A DOI: 10.1109/FIT63703.2024.10838400	2024
Water Stress Diagnosis in Rainfed Wheat Through UAV Multispectral Imagery and IoT Data <i>Muhammad Ali Usama Athar Zuhair Zafar Karsten Berns Muhammad Moazam Fraz</i> <i>19th IEEE International Conference on Emerging Technologies (ICET 2024)</i> , res.country(177,) Citations: N/A	2024

DOI: 10.1109/ICET63392.2024.10935287	
Analyzing Phenological Progression in Wheat Genotypes Through UAV Multispectral Imagery <i>Usama Athar Zuhair Zafar Karsten Berns Muhammad Moazam Fraz Muhammad Ali</i> 19th IEEE International Conference on Emerging Technologies (ICET 2024), res.country(177,) Citations: N/A DOI: 10.1109/ICET63392.2024.10935250	2024
Bridging the Resolution Gap in Remote Sensing: A Comparative Analysis of Deep Learning Models for Real-World Single Image Super-Resolution <i>Usama A Shami Bostan Khan Zuhair Zafar Muhammad Moazam Fraz</i> 4th International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,) Citations: N/A DOI: 10.1109/ICoDT262145.2024.10740259	2024
Enhancing Cotton Crop Mapping in Pakistan: Integrating Transfer and Active Learning with Remote Sensing Technologies <i>Noor Us Sabah Zuhair Zafar Fahaf Ahmed Satti Karsten Berns Muhammad Moazam Fraz</i> 4th International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,) Citations: N/A DOI: 10.1109/ICoDT262145.2024.10740196	2024
Deciphering Crop Dynamics: Leveraging Field Geometry for Precise Image Registration and Enhanced Insights <i>Muhammad Moazam Fraz Z. Mahmood Muhammad Salman Akhtar Karsten Berns M. Fayyaz Zuhair Zafar Usama Aleem Shami</i> International Conference on Asia Pacific Advanced Network (APAN 2024), res.country(177,) Citations: N/A DOI: https://doi.org/10.1007/978-3-031-89813-6_1	2024
SPOTifying the Sentinel-2 Imagery: Harnessing the Power of Attention in Real World Single Image Super-Resolution <i>Muhammad Moazam Fraz Zuhair Zafar Nazia Perwaiz Bostan Khan Usama Aleem Shami</i> International Conference on Asia Pacific Advanced Network (APAN 2024), res.country(177,) Citations: N/A DOI: https://doi.org/10.1007/978-3-031-89813-6_2	2024
Multi-year monitoring of wheat phenology and effect of climate change in the south Asian region using Sentinel-2 NDVI time series analysis <i>Vaneeza Mehmood Asad Imtiaz Malik Zuhair Zafar Muhammad Shahzad Karsten Berns Muhammad Moazam Fraz</i> Image and Signal Processing for Remote Sensing XXIX, res.country(165,) Citations: N/A DOI: 10.1117/12.2683148	2023
Time Series-Based Active Labeling Framework For Curating A Multispectral Sentinel 2 Imagery Dataset For Crop Type Mapping <i>Vaneeza Mehmood Ramesha Murtaza Dr. Zuhair Zafar Dr. Muhammad Shahzad Prof. Dr. Karsten Berns Dr. Muhammad Moazam Fraz</i> 2023 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), res.country(233,) Citations: N/A DOI: 10.1109/IGARSS52108.2023.10282084	2023
Crop Type Classification using Multi-temporal Sentinel-2 Satellite Imagery: A Deep Semantic Segmentation Approach <i>Asim Hameed Khan Zuhair Zafar Muhammad Shahzad Karsten Berns Muhammad Moazam Fraz</i> 2023 International Conference on Robotics and Automation in Industry, ICRAI 2023, res.country(177,) Citations: N/A DOI: 10.1109/ICRAI57502.2023.10089586	2023
Analysis of Vegetation Indices in the Cotton Crop in South Asia region using UAV Imagery <i>Noor us Sabah Muhammad Usama Zuhair Zafar Muhammad Shahzad Muhammad Moazam Fraz Karsten Berns</i> 2022 17th International Conference on Emerging Technologies (ICET), res.country(177,) Citations: N/A DOI: 10.1109/ICET56601.2022.10004662	2022
Recognition of Faces Wearing Masks Using Skip Connection Based Dense Units Augmented With Self Restrained Triplet Loss <i>Muhammad Aasharib Nawshad Zuhair Zafar Muhammad Moazam Fraz</i>	2022

2022 24th International Multitopic Conference (INMIC) , res.country(177,)

Citations: N/A

DOI: 10.1109/INMIC56986.2022.9972912

Extraction of Rice Phenological Metrics Using Temporally Correlated Multispectral Drone Imagery

2022

Dawood Wasif M Q Khan R Murtaza M Z Ahmad Zuhair Zafar Muhammad Shahzad Karsten Berns Muhammad Moazam Fraz
16th International Conference on Signal-Image Technology and Internet-Based Systems, SITIS 2022, res.country(75,)

Citations: N/A

DOI: 10.1109/SITIS57111.2022.00039

Paralinguistic Cues in Speech to Adapt Robot Behavior in Human-Robot Interaction

2022

Ashita Ashok Jakub Pawlak Sarwar Hussain Paplu Dr. Zuhair Zafar Prof. Dr. Karsten Berns
IEEE RAS and EMBS International Conference on Biomedical Robotics and Biomechatronics, res.country(121,)

Citations: N/A

DOI: 10.1109/BioRob52689.2022.9925505

Personality Traits Assessment using P.A.D. Emotional Space in Human-robot Interaction

2021

Dr. Zuhair Zafar Ashita Ashok Prof. Karsten Berns
5th International Conference on Human Computer Interaction Theory and Applications - HUCAPP 2021, res.country(12,)

Citations: N/A

DOI: 10.5220/0010161801110118