Shahid Nawaz Khan

Lecturer

Institute of Geographical Information Systems

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About

Dr. Shahid Nawaz Khan is working as Lecturer in the Institute of Geographical Information Systems. Dr. Shahid Nawaz Khan has a PhD in Remote Sensing. Dr. Shahid Nawaz Khan has published 19 research articles & conference papers having a citation count of 327, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Remote Sensing 2021 - 2024
University of Alabama - Tuscaloosa , United States

PhD in Remote Sensing Engineering 2021
South Dakota State University , United States

MS in Web Gis, Remote Sensing 2016 - 2018
NUST, Islamabad , Pakistan

BE in Geoinformatics 2012 - 2016
NUST, Islamabad , Pakistan

Experience

Lecturer 2021- Present
Institute of Geographical Information Systems

Lecturer 2018 - 2021
Institute of Geographical Information Systems

GIS Developer 2017 - 2018
GIS Plus , Office 110, Technology Incubation Center, NUST Sector H-12 Islamabad

Awards

President Gold Medal 2019
President Gold Medal for best in Academic in MS batch 2016-18

Rector's Gold Medal 2017
I was a part of team which was awarded Rector's Gold Medal for best final year project in batch 2012-16

Professional Memberships

PEC Since 2016

Research Projects

National Projects

International Projects

Modeling of Parthenium Spread through Water Flows 2019
Funding Agency: CAB International Central and West Asia, Pakistan
Amount: PKR 500,000.00
Status: Completed

Research Articles

Robust County-Level Corn Yield Estimation Using Ensemble Machine Learning and Multi-Source Remote Sensing 2025

Alireza Vafaeinejad Alireza Sharifi Shahid Nawaz Khan

IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, Volume: 18, Pages 16942-16953

Impact Factor: 5.300 | **Quartile:** 1

DOI: https://doi.org/10.1109/JSTARS.2025.3585779

Estimating Aboveground Biomass and Carbon Sequestration in Afforestation Areas Using Optical/SAR Data Fusion and Machine Learning 2025

Kashif Khan Shahid Nawaz Khan Anwar Ali Muhammad Faheem Khokhar Junaid Aziz Khan

Remote Sensing, Volume 17(5), Article Number 934

Impact Factor: 4.200 | **Quartile:** 1 | **Citations:** 4

DOI: https://doi.org/10.3390/rs17050934

Using remotely sensed vegetation indices and multi-stream deep learning improves county-level corn yield predictions 2025

Shahid Nawaz Khan Javed Iqbal Kashif Khan Mobushir Riaz Khan Naeem Abbas Malik Faiq Ahmad Khan Abid Nawaz Khan Amna Wahab

European Journal of Agronomy, Volume 164, Article Number 127496

Impact Factor: 4.500 | **Quartile:** 1 | **Citations:** 5

DOI: https://doi.org/10.1016/j.eja.2024.127496

Estimating afforestation related forest cover change using data fusion and machine learning 2024

Kashif Khan Muhammad Faheem Khokhar Javed Iqbal Junaid Aziz Khan Shahid Nawaz Khan

Environmental Research Communications, Volume 6, Number 11, Article Number 115004

Impact Factor: 2.500 | **Quartile:** 3 | **Citations:** 2

DOI: https://doi.org/10.1088/2515-7620/ad88e0

Using gross primary production data and deep transfer learning for crop yield prediction in the US Corn Belt 2024

Shahid Nawaz Khan Dapeng Li Maitiniyazi Maimaitijiang

International Journal of Applied Earth Observation and Geoinformation , Volume:131, Article Number 103965

Impact Factor: 8.600 | **Quartile:** 1 | **Citations:** 10

DOI: https://doi.org/10.1016/j.jag.2024.103965

Effectiveness of machine learning and deep learning models at county-level soybean yield forecasting 2024

Nizom Farmonov Khilola Amankulova Shahid Nawaz Khan Mokhigul Abdurakhimova József Szatmári Tukhtaeva Khabiba Radjabova Makhliyo Meiliyeva Khodicha László Mucsi

Hungarian Geographical Bulletin, Volume:72, No. 4, Pages:383-398

Impact Factor: 1.1 | **Quartile:** 3 | **Citations:** 5

DOI: https://doi.org/10.15201/hungeobull.72.4.4

Enhancing the potential of phenomic and genomic prediction in winter wheat breeding using high-throughput phenotyping and deep learning 2024

Swas Kaushal Harsimardeep Gill Muhammad Maruf Billah Shahid Nawaz Khan Jyotirmoy Halder Amy Bernardo Paul St. Amand Guihua Bai Karl Glover Maitiniyazi Maimaitijiang Sunish K. Sehgal

Frontiers in Plant Science, Volume:15, Article Number:1410249

Impact Factor: 4.100 | **Quartile:** 1 | **Citations:** 11

DOI: https://doi.org/10.3389/fpls.2024.1410249

Exploring hazard quotient, cancer risk, and health risks of toxic metals of the Mehmood Booti and Lakhodair landfill groundwaters, Pakistan 2023

Rose Mary Rabiya Nasir Asifa Alam Aqil Tariq Rab Nawaz Sabiha Javed Qamar Uz Zaman Fakhrul Islam Shahid Nawaz Khan

Environmental Nanotechnology, Monitoring and Management, Volume:20, Article Number: 100838, Pages:

Impact Factor: N/A | **Citations:** 22

DOI: https://doi.org/10.1016/j.enmm.2023.100838

County-level corn yield prediction using supervised machine learning 2023

Shahid Nawaz Khan Abid Nawaz Khan Aqil Tariq Linlin Lu Naeem Abbas Malik Muhammad Umair Wesam Atef Hatamleh Farah Hanna Zawaideh

European Journal of Remote Sensing, Volume:56, Issue:1, Article Number 2253985

Impact Factor: 3.700 | **Quartile:** 1 | **Citations:** 20

DOI: https://doi.org/10.1080/22797254.2023.2253985

Spatial Downscaling of GRACE Data Based on XGBoost Model for Improved Understanding of Hydrological Droughts in the Indus Basin Irrigation System (IBIS) 2023

Shoaib Ali Behnam Khorrami Muhammad Jehanzaib Aqil Tariq Muhammad Ajmal Arfan Arshad Muhammad Shafeeque Adil Dilawar Iqra Basit Liangliang

Zhang Samira Sadir Muhammad Ahmad Niaz Ahsan Jamil Shahid Nawaz Khan

Remote Sensing , Volume:15, Issue, 4, Article Number:873,

Impact Factor: 4.2 | **Quartile:** 1 | **Citations:** 73

DOI: https://doi.org/10.3390/rs15040873

Using Structure Location Data to Map the Wildland–Urban Interface in Montana, USA 2022

Yuhan Jiang Yingru Lu Ling Zhang Alexander R. Ketchpaw Dapeng Li Shahid Nawaz Khan

Fire , Volume 5(5), Article Number 129

Impact Factor: 2.726 | **Quartile:** 2 | **Citations:** 4

DOI: https://doi.org/10.3390/fire5050129

A Geographically Weighted Random Forest Approach to Predict Corn Yield in the US Corn Belt 2022

Shahid Nawaz Khan Dapeng Li Maitiniyazi Maimaitijiang

Remote Sensing , Volume 14, Issue 12, Article Number 2843

Impact Factor: 5.349 | **Quartile:** 1 | **Citations:** 44

DOI: https://doi.org/10.3390/rs14122843

Synthesis of Carbon Nanotubes (CNTs) from Poultry Litter for Removal of Chromium (Cr (VI)) from Wastewater 2021

Noor Haleem Yousuf Jamal Shahid Nawaz Khan Muhammad Anwar Baig Maryam Wahab Xufei Yang

Materials , Volume 14(18), Article Number 5195

Impact Factor: 3.623 | **Quartile:** 1 | **Citations:** 12

DOI: 10.3390/ma14185195

Impact of land use/land cover changes on water quality and human health in district Peshawar Pakistan 2021

Waqas Ahmad javed iqbal Muhammad Jamal Nasir Burhan Ahmad Muhammad Tasleem Khan Shahid Nawaz Khan Syed Adnan

Scientific Reports , Volume 11, Article Number: 16526

Impact Factor: 4.379 | **Quartile:** 1 | **Citations:** 81

DOI: https://doi.org/10.1038/s41598-021-96075-3

Assessment of Sentinel-2-Derived Vegetation Indices for the Estimation of Above-Ground Biomass/Carbon Stock, Temporal Deforestation and Carbon Emissions Estimation in the Moist Temperate Forests of Pakistan 2020

Kashif Khan Javed Iqbal Anwar Ali Shahid Nawaz Khan

Applied Ecology and Environmental Research, Volume 18(1), Pages 783-815

Impact Factor: 0.711 | **Quartile:** 4 | **Citations:** 29

DOI: DOI: http://dx.doi.org/10.15666/aeer/1801_783815

Allocation of Tutors and Study Centers in Distance Learning Using Geospatial Technologies 2018

Ali Tahir Shahid Nawaz Khan Kamran Mir Arshad Awan Zaib un Nisa Syeda Areeba Gillani

ISPRS International Journal of Geo-Information, NULL

Impact Factor: 1.840 | **Quartile:** 3 | **Citations:** 5

DOI: 10.3390/ijgi7050185

Conference Proceedings

Wheat Fusarium Head Blight Disease Severity Estimation using UAS Multispectral Imagery and Machine Learning 2024

Ubaid ur Rehman Janjua Maitiniyazi Maimaitijiang Bruce Millett Dalitso Yabwalo Kamila Dilmurat Mohammad Maruf Billah Madalyn Shires Sunish K. Sehgal Shaukat Ali Shahid Nawaz Khan

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

Citations: N/A

DOI: https://doi.org/10.1109/FIT63703.2024.10838453

Characterizing Forest Cover Dynamics in the Khyber Pakhtunkhwa Region Using Remote Sensing 2024

Kashif Khan Muhammad Faheem Khokhar Shahid Nawaz Khan Junaid Aziz Khan

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

Citations: N/A

DOI: 10.1109/FIT63703.2024.10838401

Novel Approach for Sensing the Humanoid Hand Finger Position Using Non-contact TMR Sensor 2022

Saeed Iqbal Shahid Nawaz Khan Muhammad Sajid Sara Ali Khawaja Fahad Iqbal Umer Asgher Yasar Ayaz

International Conference on Applied Human Factors and Ergonomics (AHFE) 2022, res.country(233,)

Citations: N/A

DOI: http://doi.org/10.54941/ahfe1001599