# Hirra Anwar

Assistant Professor

School of Electrical Engineering and Computer Science

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## About

Dr. Hirra Anwar is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Hirra Anwar has published 13 research articles & conference papers having a citation count of 454, carried out 0 projects and filed 0 intellectual property.

## Qualifications

**MS in Information Security**                                                   2010 - 2013
  NUST, Islamabad , Pakistan

**BS in Computer Science**                                                       2006 - 2010
  Pakistan Institute of Engineering and Applied Sciences (PIEAS) , Pakistan

## Experience

**Assistant Professor**                                                          2024- Present
  School of Electrical Engineering and Computer Science

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

**Assistant Professor**                                                          2016 - 2019
  School of Electrical Engineering and Computer Science

**Lecturer**                                                                     2014 - 2016
  School of Electrical Engineering and Computer Science

**Assistant Professor**                                                          2016 - 2019
  NUST , H-12 NUST

**Lecturer**                                                                     2014 - 2016
  NUST , H-12 NUST

**Visiting Faculty**                                                             2013 - 2014
  NUST , H-12 NUST

## Awards

**Appreciation Certificate**                                                     2015
  Outstanding teaching performance

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# Research Articles

**Segmentation of Wheat Rust Disease Using Co-Salient Feature Extraction**                                  2025

*Hirra Anwar Muhammad Ali Afridi Haseeb Muhammad Muhammad Mohsin Ghaffar Muhammad Jawad Khan Christian Weis Norbert Wehn Faisal Shafait*

*AgriEngineering* , Volume 7(2), Article Number 23

**Impact Factor:** 3.000 | **Quartile:** 2 | **Citations:** 3

**DOI:** https://doi.org/10.3390/agriengineering7020023

**The NWRD Dataset: An Open-Source Annotated Segmentation Dataset of Diseased Wheat Crop**                  2023

*Hirra Anwar Saad Ullah Khan Muhammad Fayyaz Muhammad Mohsin Ghaffar Muhammad Jawad Khan Christian Weis Norbert Wehn Faisal Shafait*

*Sensors* , Volume 23, Issue 15, Article Number 6942

**Impact Factor:** 3.9 | **Quartile:** 2 | **Citations:** 8

**DOI:** https://doi.org/10.3390/s23156942

**Water Quality Monitoring: From Conventional to Emerging Technologies**                                    2020

*Umair Ahmed Rafia Mumtaz Hirra Anwar Sadaf Mumtaz Ali Mustafa Qamar*

*Water Supply* , Vol. 20 , No. 1, Pages 28-45

**Impact Factor:** 1.275 | **Quartile:** 4 | **Citations:** 92

**DOI:** 10.2166/ws.2019.144

**Efficient Water Quality Prediction Using Supervised Machine Learning**                                    2019

*Umair Ahmed Rafia Mumtaz Hirra Anwar Asad Ali Shah Rabia Irfan José García-Nieto*

*Water* , Volume 11, Issue 11, Article Number:2210

**Impact Factor:** 2.544 | **Quartile:** 2 | **Citations:** 351

**DOI:** 10.3390/w11112210

# Conference Proceedings

**Wheat Rust Disease Segmentation from Ground Imagery** 2024

*Hirra Anwar Muhammad Jawad Khan Faisal Shafait Ajmal Mian*

*2024 International Conference on Digital Image Computing: Techniques and Applications (DICTA)*, res.country(13,)

**Citations:** N/A

**DOI:** 10.1109/DICTA63115.2024.00106

**Towards Efficient Aerial Object Detection: Techniques, Datasets and Challenges** 2021

*Hirra Anwar Kashif Javed Saddaf Rubab Muhammad Jawad Khan*

*2021 International Conference on Communication Technologies (ComTech)*, res.country(177,)

**Citations:** N/A

**DOI:** 10.1109/ComTech52583.2021

**A Very Low Cost, Open, Wireless, Internet of Things (IoT) Air Quality Monitoring Platform** 2018

*Hammad Aamer Rafia Mumtaz Hirra Anwar Stefan Poslad*

*2018 15th International Conference on Smart Cities: Improving Quality of Life Using ICT and IoT, HONET-ICT 2018* res.country(177,)

**Citations:** N/A

**DOI:** 10.1109/HONET.2018.8551340

**Surface Water Pollution Detection using Internet of Things** 2018

*Uferah Shafi Rafia Mumtaz Hirra Anwar Ali Mustafa Qamar Hamza Khurshid*

*2018 15th International Conference on Smart Cities: Improving Quality of Life Using ICT and IoT, HONET-ICT 2018* res.country(177,)

**Citations:** N/A

**DOI:** 10.1109/HONET.2018.8551341

**Self adaptations in access control models in context of cloud computing** 2015

*Maryam Sajjad Hirra Anwar Muhammad Awais Shibli*

*2015 Conference on Information Assurance and Cyber Security (CIACS)*, res.country(177,)

**Citations:** N/A

**DOI:** 10.1109/CIACS.2015.7395569

**Federated Identity Management (FIM): Challenges and opportunities** 2015

*Ali Ahmad Malik Hirra Anwar Muhammad Awais Shibli*

*2015 Conference on Information Assurance and Cyber Security, CIACS 2015*, res.country(177,)

**Citations:** N/A

**DOI:** 10.1109/CIACS.2015.7395570

**PISA: Improving the pseudo-randomness of the pen-and-paper cipher based on the Solitaire algorithm** 2012

*Hirra Anwar Sarah Masood Zahid Anwar*

*15th IEEE International Multitopic Conference (INMIC)*, res.country(177,)

**Citations:** N/A

**DOI:** 10.1109/INMIC.2012.6511495

**Attribute Based Access Control in Dspace** 2012

*Hirra Anwar Muhammad Awais Shibli*

*7th International Conference on Computing and Convergence Technology (ICCCT)*, res.country(121,)

**Citations:** N/A

**DOI:** ISBN 978-89-94364-22-3, CD:978-89-94364-26-1

**Comparative analysis of group centric access control models** 2012

*Hirra Anwar Muhammad Awais Shibli*

*Emerging Trends and Applications in Information Communication Technologies IMTIC 2012*, res.country(177,)

**Citations:** N/A

**DOI:** 10.1007/978-3-642-28962-0_12