

Syed Muhammad Hassan Zaidi

Regular Visiting Faculty

School of Electrical Engineering and Computer Science

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About

Dr. Syed Muhammad Hassan Zaidi is working as Regular Visiting Faculty in the School of Electrical Engineering and Computer Science. Dr. Syed Muhammad Hassan Zaidi has a PhD in Computer Simulation Of High Speed Communication Networks. Dr. Syed Muhammad Hassan Zaidi has published 22 research articles & conference papers having a citation count of 837, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Computer Simulation Of High Speed Communication Networks University of South Florida , United States	1989 - 1992
MS in Communications Engg University of South Florida , United States	1988 - 1989
BS in (Aeronautical Engg) NED UET Karachi , Pakistan	1984 - 1987

Experience

Regular Visiting Faculty School of Electrical Engineering and Computer Science	2023- Present
Regular Visiting Faculty School of Electrical Engineering and Computer Science	2018 - 2023
Regular Visiting Faculty School of Electrical Engineering and Computer Science	2014 - 2017
Defence Faculty School of Electrical Engineering and Computer Science	1996 - 2014
Principal SEECs , H12 Islamabad	2015 - 2020
Dean NIIT-NUST , H12 Islamabad	2005 - 2015
Head of Academics NIIT-NUST , Chaklala Scheme III	1999 - 2005
AD R&D NUST , Tameezuddin Road Rawalpindi	1996 - 1999
Asst Prof CAE NUST , CAE PAF Academy Risalpur	1993 - 1996
Officer Incharge PMEL F-16 PAF , PAF Base Sargodha	1984 - 1988

Awards

President's Award Received President's Pride of Performance award in 2008	2008
XVIIIth Star Award Received 18th Star Award in 2007	2007
Best Teacher Award	2007
Best Researcher Award	2007
Visiting Research Scholar Awarded by Duke Energy Distinguished Visiting Scholar at Optics Center of Charlotte Research Institute at UNC Charlotte, USA	2006
National Education Award 11th Pakistan Education Forum's National Education Award 2005 for meritorious services in the field of Computer Science and Information Technology	2005
HEC Best Uni Teacher HEC Best University Teacher Award for the year 2004	2004
NCR Excellence Award Received NCR Awards on IT Educationalist 2003	2003
Commendation Certificate Commendation Certificate by chief of the air staff for devotion to duty and valuable services rendered to the Pakistan Air Force in March 2002	2002
NCR Excellence Award NCR Excellence Award on IT, Research and Development in 2000-2001	2001
Letter of Appreciation Received letter of appreciation from Commandant CAE NUST for delivering three outstanding Seminars on "Laser Fundamentals and its Military Application, Thermal Imaging Systems and Infrared Satellite Reconnaissance"	1994
Graduate Teaching Fellow Graduate Teaching Fellowship in USF, USA	1993
Graduate Research Fellows Graduate Research Fellowship in USF, USA	1991
MoST Scholarship MoST Scholarship for MS and PhD Studies	1991
BISE Scholarship Board of Intermediate Scholarship for outstanding performance in Intermediate exam for Pre-engg group	1980

Research Projects

National Projects	
Green Internet-of-Things for Climate-Smart Agriculture (GrIST) Funding Agency: GCRF Amount: PKR 3,361,530.00 Status: Approved_inprocess	2018
International Projects	

Research Articles

Embedded AI for Wheat Yellow Rust Infection Type Classification <i>Uferah Shafi Rafia Mumtaz Muhammad Deedahwar Mazhar Qureshi Zahid Mahmood Sikander Khan Tanveer Ihsan Ul Haq Syed Mohammad Hassan Zaidi</i> <i>IEEE Access</i> , Volume 11, Pages 23726-23738 Impact Factor: 3.476 Quartile: 2 Citations: 45 DOI: https://doi.org/10.1109/ACCESS.2023.3254430	2023
Wheat rust disease detection techniques: a technical perspective <i>Uferah Shafi Rafia Mumtaz Zunaira Shafaq Syed Mohammad Hassan Zaidi Muhammad Owais Kaifi Zahid Mahmood Syed Ali Raza Zaidi</i> <i>Journal of Plant Diseases and Protection</i> , Volume 129, Issue 3, Pages 489-504 Impact Factor: 1.847 Quartile: 3 Citations: 43 DOI: 10.1007/s41348-022-00575-x	2022

A review of enabling technologies for Internet of Medical Things (IoMT) Ecosystem <i>Zarlish Ashfaq Abdur Rafay Rafia Mumtaz Syed Mohammad Hassan Zaidi Hadia Saleem Syed Ali Raza Zaidi Sadaf Mumtaz Ayesha Haque</i> <i>Ain Shams Engineering Journal</i> , Volume 13, Issue 4, Article Number 101660 Impact Factor: 3.180 Quartile: 2 Citations: 113 DOI: https://doi.org/10.1016/j.asej.2021.101660	2022
Assessment of correlation amongst physico-chemical, topographical, geological, lithological and soil type parameters for measuring water quality of Rawal watershed using remote sensing <i>Mehreen Ahmed Rafia Mumtaz Shahbaz Baig Syed Mohammad Hassan Zaidi</i> <i>Water Supply</i> , Volume 22, Issue 4, Article Number 3645 Impact Factor: 1.275 Quartile: 4 Citations: 11 DOI: https://doi.org/10.2166/ws.2022.006	2022
How IoT-Driven Citizen Science Coupled with Data Satisficing Can Promote Deep Citizen Science <i>Stefan Poslad Tayabba Irum Patricia Charlton Rafia Mumtaz Muhammad Azam Syed Mohammad Hassan Zaidi Christothea Herodotou Guangxia Yu Fesal Toosy</i> <i>Sensors</i> , Volume 22, Issue 9, Article Number 3196 Impact Factor: 3.576 Quartile: 1 Citations: 2 DOI: https://doi.org/10.3390/s22093196	2022
Embedded AI-Based Digi-Healthcare <i>Zarlish Ashfaq Rafia Mumtaz Abdur Rafay Syed Mohammad Hassan Zaidi Hadia Saleem Sadaf Mumtaz Adnan Shahid Eli De Poorter Ingrid Moerman</i> <i>Applied Sciences</i> , Volume 12, Issue 1, Article Number 519 Impact Factor: 2.9 Quartile: 2 Citations: 34 DOI: 10.3390/ app12010519	2022
Wheat Yellow Rust Disease Infection Type Classification Using Texture Features <i>Uferah Shafi Rafia Mumtaz Ihsan Ul Haq Maryam Hafeez Naveed Iqbal Arsalan Shaukat Syed Mohammad Hassan Zaidi Zahid Mahmood</i> <i>Sensors</i> , Volume 22(1), Article Number 146 Impact Factor: 3.9 Quartile: 2 Citations: 34 DOI: 10.3390/s22010146	2022
All-optical 40 channels regenerator based on four-wave mixing <i>Salman Abdul Ghafoor Muhammad Usama Khan Aamir Gulistan Ahmad Salman Syed Muhammad Hassan Zaidi</i> <i>Telecommunication Systems</i> , Volume 79, Pages123-131 Impact Factor: 2.5 Quartile: 3 Citations: 1 DOI: https://doi.org/10.1007/s11235-021-00855-1	2022
Assessing the Impact of Segmentation on Wheat Stripe Rust Disease Classification Using Computer Vision and Deep Learning <i>Hassan Raza bukhari Rafia Mumtaz Salman Inayat Uferah Shafi Ihsan Ul Haq Syed Mohammad Hassan Zaidi Maryam Hafeez</i> <i>IEEE Access</i> , Volume 9, Pages 164986-165004 Impact Factor: 3.367 Quartile: 2 Citations: 30 DOI: 10.1109/ACCESS.2021.3134196	2021
Super Resolution Generative Adversarial Network (SRGANs) for Wheat Stripe Rust Classification. <i>Muhammad Hassan Maqsood Rafia Mumtaz Ihsan Ul Haq Uferah Shafi Syed Mohammad Hassan Zaidi Maryam Hafeez</i> <i>Sensors</i> , Volume 21(23), Article Number 7903 Impact Factor: 3.576 Quartile: 2 Citations: 23 DOI: https://doi.org/10.3390/s21237903	2021
Analysis of water quality indices and machine learning techniques for rating water pollution: a case study of Rawal Dam, Pakistan <i>Mehreen Ahmed Rafia Mumtaz Syed Mohammad Hassan Zaidi</i> <i>Water Science and Technology-Water Supply</i> , Volume 21, Issue 6 Impact Factor: 1.768 Quartile: 4 Citations: 50 DOI: https://doi.org/10.2166/ws.2021.082	2021
Gray level co-occurrence matrix (GLCM) texture based crop classification using low altitude remote sensing platforms <i>Naveed Iqbal Rafia Mumtaz Uferah Shafi Syed Mohammad Hassan Zaidi</i> <i>PeerJ Computer Science</i> , Volume 7, Article Number e536 Impact Factor: 2.411 Quartile: 2 Citations: 154 DOI: https://doi.org/10.7717/peerj-cs.536	2021

- Precision Measurement for Industry 4.0 Standards towards Solid Waste Classification through Enhanced Imaging Sensors and Deep Learning Model** 2021
Leow Wei Qin Muneer Ahmad Ihsan Ali Rafia Mumtaz Syed Mohammad Hassan Zaidi Sultan S. Alshamrani Muhammad Ahsan Raza Muhammad Tahir
Wireless Communications and Mobile Computing, Volume 2021, Article ID 9963999, 10 pages
Impact Factor: 2.146 | **Quartile:** 3 | **Citations:** 30
DOI: <https://doi.org/10.1155/2021/9963999>
- Internet of Things (IoT) Based Indoor Air Quality Sensing and Predictive Analytic-A COVID-19 Perspective** 2021
Rafia Mumtaz Syed Mohammad Hassan Zaidi Muhammad Zeeshan Shakir Uferah Shafi Muhammad Moez Malik Ayesha Haque Sadaf Mumtaz Syed Ali Raza Zaidi
Electronics, Volume 10(2), Article Number 184
Impact Factor: 2.690 | **Quartile:** 3 | **Citations:** 85
DOI: <https://doi.org/10.3390/electronics10020184>
- Distributed Fog Computing for Internet of Things (IoT) Based Ambient Data Processing and Analysis** 2020
Mehreen Ahmed Rafia Mumtaz Syed Mohammad Hassan Zaidi Maryam Hafeez Syed Ali Raza Zaidi Muneer Ahmed
Electronics, Volume 9, Issue 11, Article Number 1756
Impact Factor: 2.397 | **Quartile:** 3 | **Citations:** 29
DOI: [10.3390/electronics9111756](https://doi.org/10.3390/electronics9111756)
- A Multi-modal Approach for Crop Health Mapping using low altitude Remote Sensing, Internet of Things (IoT) and Machine Learning** 2020
Rafia Mumtaz Uferah Shafi Naveed Iqbal Syed Mohammad Hassan Zaidi Syed Ali Raza Zaidi Imtiaz Hussain Zahid Mahmood
IEEE Access, Volume 8, Pages 112708-112724
Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 103
DOI: [10.1109/ACCESS.2020.3002948](https://doi.org/10.1109/ACCESS.2020.3002948)
- Estimation of Modulation Index for Partial Response CPM Signal** 2018
Tayyaba Munawar Syed Ali Hassan Sajid Saleem Syed Muhammad Hassan Zaidi
IEEE Access, NULL
Impact Factor: 4.098 | **Quartile:** 1 | **Citations:** 13
DOI: [10.1109/ACCESS.2018.2794959](https://doi.org/10.1109/ACCESS.2018.2794959)
- Coverage and Rate Analysis for Downlink HetNets Using Modified Reverse Frequency Allocation Scheme** 2017
Aneeqa Ijaz Syed Ali Hassan Syed Ali Raza Zaidi Dushantha Nalin K. Jayakody Syed Muhammad Hassan Zaidi
IEEE Access, Volume 5, Pages 2489-2502
Impact Factor: 3.557 | **Quartile:** 1 | **Citations:** 23
DOI: [10.1109/ACCESS.2017.2670027](https://doi.org/10.1109/ACCESS.2017.2670027)
- Synthesis and electrical characterization of Graphene Oxide films** 2015
Muhammad Yasin Tauseef Tauqeer Syed Muhammad Hassan Zaidi Sait E. San Asad Mahmood Muhammet E. Köse Betül Canimkurbey Mustafa Okutan
Thin Solid Films, Volume 590, Pages 118-123
Impact Factor: 1.761 | **Quartile:** 2 | **Citations:** 14
DOI: [doi:10.1016/j.tsf.2015.07.042](https://doi.org/10.1016/j.tsf.2015.07.042)

<p>Quantum Internet: A Revolutionary Disruption</p> <p><i>Syed Mohammad Hassan Zaidi Muhammad Annas Khan Maham Iftikhar Rafia Mumtaz Parsa Rukhsar Hafiza Zunera Muhammad Abdul Aleem</i></p> <p><i>IEEE 19th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI, HONET 2022</i> res.country(233,)</p> <p>Citations: N/A</p> <p>DOI: 10.1109/HONET56683.2022.10018973</p>	2022
<p>Crime Classification Using Machine Learning and Data Analytic</p> <p><i>Muhammad Naqi Haider Rafia Mumtaz Syed Mohammad Hassan Zaidi</i></p> <p><i>IEEE 19th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI, HONET 2022</i> res.country(233,)</p> <p>Citations: N/A</p> <p>DOI: 10.1109/HONET56683.2022.10018990</p>	2022
<p>Internet of Things (IoT) and Machine Learning (ML) enabled Livestock Monitoring</p> <p><i>Abdul Aziz Chaudhry Rafia Mumtaz Syed Mohammad Hassan Zaidi Muhammad Ali Tahir Syed Hassan Muzammil School</i></p> <p><i>IEEE 17th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI (HONET)</i> res.country(233,)</p> <p>Citations: N/A</p> <p>DOI: 10.1109/HONET50430.2020.9322666</p>	2020