

Muhammad Mohsin Raza Jafri

Assistant Professor

NUST Balochistan Campus

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About

Dr. Muhammad Mohsin Raza Jafri is working as Assistant Professor in the NUST Balochistan Campus. Dr. Muhammad Mohsin Raza Jafri has a PhD in Wireless sensor networks. Dr. Muhammad Mohsin Raza Jafri has published 25 research articles & conference papers having a citation count of 312, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Wireless sensor networks University of Venice , Italy	2015 - 2019
MS in Networks Engineering COMSATS Institute of Information Technology , Pakistan	2012 - 2015
BS in Wireless Communication BZU, Multan , Pakistan	2007 - 2011

Experience

Assistant Professor NUST Balochistan Campus	2019- Present
Assistant Professor NUST Balochistan Campus	2019 - 2019
Doctorate fellow (ACADIA group) Università Ca'Foscari Venezia, Italy , Università Ca'Foscari Venezia, Italy	2015 - 2018
Network engineer(IT trainee) D.G.Cement company, D.G.Khan, Pakistan , D.G.Cement company, D.G.Khan, Pakistan	2011 - 2012

Awards

Research Productivity Research Productivity Award, 2013 – Awarded by COMSATS Institute of Information Technology, Islamabad, Pakistan	2013
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Research Projects

National Projects	
Contactless Smart Livestock Healthcare Monitoring System for Internet-less Areas Funding Agency: NUST Amount: PKR 6,000,000.00 Status: Approved_inprocess	2023

International Projects

Research Articles

DynBlock: dynamic data encryption with Toffoli gate for IoT Mubasher Haq Ijaz Ali Shoukat Alamgir Naushad Muhammad Mohsin Raza Jafri Moid Sandhu Abdullah Khan Hyundong Shin Scientific Reports , Volume 15, Article Number 17864 Impact Factor: 3.800 Quartile: 1 DOI: https://doi.org/10.1038/s41598-025-02437-6	2025
Leveraging CapsNet for enhanced classification of 3D MRI images for Alzheimer's diagnosis	2025

<i>Moiz Uddin Shaikh Muhammad Mohsin Raza Jafri Moid Sandhu Hyundong Shin Abd Ullah Khan Jahangir Rasheed Biomedical Signal Processing and Control</i>, Volume: 103, Article Number: 107384 Impact Factor: 4.9 Quartile: 1 Citations: 3 DOI: https://doi.org/10.1016/j.bspc.2024.107384	
Deep Learning Based Multi pose Human Face Matching System <i>Muhammad Sohail Ijaz Ali Shaukat Abd Ullah Khan Haram Fatima Mohsin Raza Jafri Muhammad Azfar Yaqub Anonio Liotta IEEE Access</i>, Volume: 12, Page(s): 26046-26061 Impact Factor: 3.9 Quartile: 2 Citations: 10 DOI: 10.1109/ACCESS.2024.3366451	2024
Energy-efficient selection of relay for UWSNs in the Internet of underwater things <i>Mohsin Raza Jafri Muhammad Khalil Afzal Saad Haseeb Muhammad Tahir Naeem Raza International Journal of Communication Systems</i>, Pages 1-14 Impact Factor: 2.1 Quartile: 3 Citations: 4 DOI: https://doi.org/10.1002/dac.5619	2023
Radar sensor based machine learning approach for precise vehicle position estimation <i>Muhammad Sohail Abd Ullah Khan Moid Sandhu Ijaz Ali Shaukat Mohsin Raza Jafri Hyundong Shin Scientific Reports</i>, Volume 13, Issue 1, Article Number 13837 Impact Factor: 4.6 Quartile: 2 Citations: 11 DOI: https://doi.org/10.1038/s41598-023-40961-5	2023
Fingerprinting SDN Policy Parameters: An Empirical Study <i>Bilal Ahmed Nadeem Ahmed Asad Waqar Malik Muhammad Mohsin Raza Jafri Taimur Hafeez IEEE Access</i>, Volume 8, Pages 142379-142392 Impact Factor: 3.367 Quartile: 2 Citations: 13 DOI: 10.1109/ACCESS.2020.3012176	2020
Exploiting W. Ellison model for seawater communication at GHz frequency based on World Ocean Atlas Data <i>Muhammad Tahir Piao Yan Ittikhar Ali Muhammad Mohsin Raza Jafri Jiang Zexin Di Xiaoqiang ETRI Journal</i>, Volume 42, Issue 4, Pages 575-584 Impact Factor: 1.347 Quartile: 4 Citations: 7 DOI: 10.4218/etrij.2018-0492	2020
Nonlinear least square approach for range estimation based on attenuation of EM waves in seawater using world ocean data from 1955 to 2012 <i>Muhammad Tahir Piao Yan Muhammad Mohsin Raza Jafri International Journal of Communication Systems</i>, Volume: 32 Issue: 16 Article Number: e4117 Impact Factor: 1.319 Quartile: 3 Citations: 1 DOI: 10.1002/dac.4117	2019
Stochastic modeling of depth based routing in underwater sensor networks <i>Kishor Patil Muhammad Mohsin Raza Jafri Dieter Fiems Andrea Marin Ad Hoc Networks</i>, Volume 89, Pages 132-141 Impact Factor: 3.643 Quartile: 1 Citations: 19 DOI: 10.1016/j.adhoc.2019.03.009	2019
Implementation of depth-based routing and its enhancement in AquaSim–Next Generation for underwater wireless sensor networks <i>Muhammad Mohsin Raza Jafri Simonetta Balsamo Andrea Marin Robert Martin International Journal of Communication Systems</i>, Volume 31, Issue 12 Impact Factor: 1.278 Quartile: 3 Citations: 15 DOI: 10.1002/dac.3714	2018
Chain-Based Communication in Cylindrical Underwater Wireless Sensor Networks <i>Nadeem Javaid Muhammad Mohsin Raza Jafri Zahoor Ali Khan Nabil Alrajeh Muhammad Imran Athanasios Vasilakos Sensors</i>, Volume 15, Issue 2, Pages 3625-3649 Impact Factor: 2.033 Quartile: 1 Citations: 36 DOI: 10.3390/s150203625	2015
Delay-Sensitive Routing Schemes for Underwater Acoustic Sensor Networks <i>N. Javaid Muhammad Mohsin Raza Jafri S. Ahmed Mohsin Jamil Z. A. Khan U. Qasim S. S. Al-Saleh International Journal of Distributed Sensor Networks</i>, Article ID 532676, Pages 1-14	2015

Impact Factor: 0.906 | **Quartile:** 3 | **Citations:** 59

DOI: <https://doi.org/10.1155/2015/532676>

iAMCTD: improved Adaptive Mobility of Courier Nodes in Threshold-Optimized DBR Protocol for UWSNs

2014

Nadeem Javaid Muhammad Mohsin Raza Jafri Z. A. Khan Nadeem Javaid Z. A. Khan U. Qasim T. A. Alghamdi M. Ali

International Journal of Distributed Sensor Networks, Article Number 213012

Impact Factor: 0.665 | **Quartile:** 4 | **Citations:** 77

DOI: [10.1155/2014/213012](https://doi.org/10.1155/2014/213012)

- An Efficient and Low-Profile MIMO Antenna for 5G-WiFi Interference Rejection: Design and Analysis** 2024
Hassan Tariq Muhammad Mohsin Raza Jafri Abdullah Khan Kyesan Lee Hyundong Shin
International Conference on Information and Communication Technology Convergence (ICTC), res.country(121,)
Citations: N/A
DOI: <https://doi.org/10.1109/ICTC62082.2024.10827221>
- Application-Aware Hierarchical Offloading for MEC-Enabled Autonomous Vehicle Architecture** 2020
M.R. Jafri Arslan Rasheed Peter H.J. Chong A. Anwar K. L. Kushan Sudheera William Liu M. A. Yaqub
2020 IEEE Globecom Workshops , res.country(227,)
Citations: N/A
DOI: [10.1109/GCWkshps50303.2020.9367480](https://doi.org/10.1109/GCWkshps50303.2020.9367480)
- On the optimality of opportunistic routing protocols for underwater sensor networks** 2018
Mohsin Jafri Andrea Marin Andrea Torsello Majid Ghaderi
21st ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems, res.country(38,)
Citations: N/A
DOI: [10.1145/3242102.3242116](https://doi.org/10.1145/3242102.3242116)
- Adaptive holding time and depth-based routing for UWSN** 2017
Muhammad Mohsin Raza Jafri
11th EAI International Conference on Performance Evaluation Methodologies and Tools, December 2017, res.country(109,)
Citations: N/A
DOI: [10.1145/3150928.3150968](https://doi.org/10.1145/3150928.3150968)
- Analysis of performance in depth based routing for underwater wireless sensor networks** 2017
Muhammad Mohsin Raza Jafri Simonetta Balsamo Andrea Marin Dieter Fiems
InfQ 2017 – New Frontiers in Quantitative Methods in Informatics, In conjunction with Valuetools 2017, res.country(109,)
Citations: N/A
DOI: [10.1007/978-3-319-91632-3_2](https://doi.org/10.1007/978-3-319-91632-3_2)
- ARCUN: Analytical approach towards reliability with cooperation for underwater WSNs** 2015
Sheeraz Ahmed Mariam Akbar Rehmat Ullah Atta-ur-Rehman Muhammad Mohsin Raza Jafri Zahoor Ali Khan Umar Qasim Nadeem Javaid
The 6th International Conference on Ambient Systems, Networks and Technologies (ANT-2015), res.country(231,)
Citations: N/A
DOI: [10.1016/j.procs.2015.05.042](https://doi.org/10.1016/j.procs.2015.05.042)
- DSM: Dynamic sink mobility equipped DBR for underwater WSNs** 2015
Muhammad Mohsin Raza Jafri Ayesha Hussain Khan Nadeem Javaid Zahoor Ali Khan Umar Qasim Muhammad Imran
The 6th International Conference on Ambient Systems, res.country(231,)
Citations: N/A
DOI: [10.1016/j.procs.2015.05.036](https://doi.org/10.1016/j.procs.2015.05.036)
- Towards delay-sensitive routing in underwater wireless sensor networks** 2014
Muhammad Mohsin Raza Jafri Muhammad Moid Sandhu Kamran Latif Zahoor Ali Khan Ansar Ul Haque Yasar Nadeem Javaid
The 4th International Conference on Current and Future Trends of Information and Communication Technologies in Healthcare (ICTH 2014)
res.country(38,)
Citations: N/A
DOI: [10.1016/j.procs.2014.08.034](https://doi.org/10.1016/j.procs.2014.08.034)
- Impact of acoustic propagation models on depth-based routing techniques in underwater wireless sensor networks** 2014
Muhammad Mohsin Raza Jafri Nadeem Javaid Naeem Amjad Mariam Akbar Zahoor Ali Khan Umar Qasim
Proceedings - 2014 IEEE 28th International Conference on Advanced Information Networking and Applications Workshops, IEEE WAINA 2014
res.country(38,)
Citations: N/A
DOI: [10.1109/WAINA.2014.149](https://doi.org/10.1109/WAINA.2014.149)
- AMCTD: Adaptive mobility of courier nodes in threshold-optimized dbr protocol for underwater wireless sensor networks** 2013
Muhammad Mohsin Raza Jafri Syed Hassan Ahmed Nadeem Javaid Zaheer Ahmad R. J. Qureshi
38th International Conference on Broadband, Wireless Computing, Communication and Applications, BWCCA 2013, res.country(75,)
Citations: N/A
DOI: [10.1109/BWCCA.2013.24](https://doi.org/10.1109/BWCCA.2013.24)

Editorial Activities

Edited Journal Issue / Proceeding / Book	2025
Impact Factor: N/A	
Biomedical signal processing and control	2025
Reviewed Papers for Journals	
Impact Factor: 4.9	