

Hussain Ali

Assistant Professor

Military College of Signals

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About

Dr. Hussain Ali is working as Assistant Professor in the Military College of Signals. Dr. Hussain Ali has a PhD in Signal Processing. Dr. Hussain Ali has published 13 research articles & conference papers having a citation count of 15, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Signal Processing King Fahad University of Petroleum and Minerals , Saudi Arabia	2013 - 2018
MS in Communications King Fahad University of Petroleum and Minerals , Saudi Arabia	2010 - 2013
BE in (Telecomm Engg) NUST, Islamabad , Pakistan	2003 - 2007

Experience

Assistant Professor Military College of Signals	2019- Present
Assistant Professor NUST , NUST	2019 - 2022
Research Engineer III King Fahd University of Petroleum and Minerals , Dhahran, Saudi Arabia	2018 - 2019
Lecturer-B King Fahd University of Petroleum and Minerals , Dhahran, Saudi Arabia	2018 - 2018
Lecturer-B King Fahd University of Petroleum and Minerals , Dhahran, Saudi Arabia	2013 - 2018
Research Assistant King Fahd University of Petroleum and Minerals , Dhahran, Saudi Arabia	2010 - 2013
Research Assistant Iqra University , Islamabad Campus	2009 - 2010
Transmission Engineer Nokia Siemens Networks , 23 West Jinnah Avenue, PO Box 1129 Islamabad 44000	2007 - 2008

Research Projects

National Projects	
Machine Learning Accelerator on Low Cost ZYNQ SoC Based FPGA Funding Agency: IGNITE Amount: PKR 89,059.00 Status: Completed	2025
Development of Algorithms for Frequency Diverse Array Radar Funding Agency: NUST Amount: PKR 1,000,000.00 Status: Completed	2022
International Projects	

Reduced complexity DOA and DOD estimation for a single moving target in bistatic MIMO radar

2020

Hussain Ali Sajid Ahmed Mohammad S. Sharawi Mohamed-Slim Alouini Tareq Y. Al-Naffouri

Signal Processing, Volume 166

Impact Factor: 4.662 | **Quartile:** 1 | **Citations:** 8

DOI: <https://doi.org/10.1016/j.sigpro.2019.107276>

Target parameter estimation for spatial and temporal formulations in MIMO radars using compressive sensing

2017

Mohamed-S Alouini Hussain Ali Sajid Ahmed Tareq Y. Al-Naffouri Mohammad S. Sharawi

EURASIP Journal on Advances in Signal Processing, Volume 2017, Article Number: 6, Pages 1-11

Impact Factor: 1.639 | **Quartile:** 3 | **Citations:** 2

DOI: 10.1186/s13634-016-0436-x

Extended Low-Density Parity-Check Codes for Feedback-based Cooperative Diversity

2014

Hussain Ali Maan Kousa

IET Communications, Vol. 8, Issue 6, Pages 805–812

Impact Factor: 0.742 | **Quartile:** 3 | **Citations:** 5

DOI: 10.1049/iet-com.2013.0198

- Accuracy of Compact mmWave Radar Sensor for Vital Signs Monitoring** 2024
Fatima Sheikh Hadia Ushaq Naveed Iqbal Hussain Ali
2024 IEEE INC-USNC-URSI Radio Science Meeting (Joint with AP-S Symposium), res.country(109,)
Citations: N/A
DOI: 10.23919/INC-USNC-URSI61303.2024.10632344
- Super-Resolution CNN Accelerator on Low-Cost Zynq-7000 Series SoC-based FPGA** 2024
Obaidullah Ahmed Hussain Ali Yasir Javed Naveed Iqbal
2024 IEEE INC-USNC-URSI Radio Science Meeting (Joint with AP-S Symposium), res.country(109,)
Citations: N/A
DOI: 10.23919/INC-USNC-URSI61303.2024.10632510
- Angle Estimation using Weighted Beampattern in Frequency Diverse Array Radar** 2023
Shaiza Hussain Ali Sajid Ahmed
2023 International Conference on Communication Technologies (ComTech), res.country(177,)
Citations: N/A
DOI: 10.1109/ComTech57708.2023.10165115
- DOA Estimation with a Rank-deficient Covariance matrix: A Regularized Least-squares approach** 2020
Hussain Ali Tarig Ballal Tareq Y. Al-Naffouri Mohammad S. Sharawi Hussain Ali Tarig Ballal Tareq Y. Al-Naffouri Mohammad S. Sharawi
IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, res.country(38,)
Citations: N/A
DOI: <https://2020apsursi.org/Papers/ViewPaper.asp?PaperNum=1737>
- Reduced complexity FFT-based DOA and DOD estimation for moving target in bistatic MIMO radar** 2016
Sajid Ahmed Tareq Y. Al-Naffouri Mohamed-Slim Alouini Sajid Ahmed Tareq Y. Al-Naffouri Mohamed-Slim Alouini Sajid Ahmed Hussain Ali
IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), res.country(48,)
Citations: N/A
DOI: 10.1109/ICASSP.2016.7472232
- Reduction of Snapshots for MIMO radar detection by Block/Group Orthogonal Matching Pursuit** 2014
Hussain Ali Sajid Ahmed Tareq Y. Al-Naffouri Slim Alouini Hussain Ali Sajid Ahmed Tareq Y. Al-Naffouri Slim Alouini
International Radar Conference 2014 , res.country(75,)
Citations: N/A
DOI: 10.1109/RADAR.2014.7060279
- Incremental Relaying Protocols for Extended LDPC coded cooperative diversity** 2013
Hussain Ali Maan Kousa Hussain Ali Maan Kousa
IEEE 9th International Wireless Communications & Mobile Computing Conference (IWCMC 2013), res.country(109,)
Citations: N/A
DOI: 10.1109/IWCMC.2013.6583706
- ARQ-based Scheme for coded wireless cooperative communications** 2013
Ahmad Suhail Salim Hussain Ali Maan Kousa Ahmad Suhail Salim Hussain Ali Maan Kousa
IEEE 9th International Wireless Communications & Mobile Computing Conference (IWCMC 2013), res.country(109,)
Citations: N/A
DOI: 10.1109/IWCMC.2013.6583585
- A Novel Approach for using Extended LDPC codes in Cooperative Diversity** 2012
Hussain Ali Maan Kousa Hussain Ali Maan Kousa Hussain Ali Maan Kousa
IEEE International Conference on Communication Systems (ICCS 2012), res.country(197,)
Citations: N/A
DOI: 10.1109/ICCS.2012.6406165
- Extended Low-density Parity-check Codes for Cooperative Diversity** 2012
Hussain Ali Maan Kousa Hussain Ali Maan Kousa
International Conference on Signal Processing and Multimedia Applications and Wireless Information Networks and Systems (WINSYS 2012), res.country(109,)
Citations: N/A
DOI: http://www.winsys.icete.org/Abstracts/2012/WINSYS_2012_Abtracts.htm

Editorial Activities

IEEE Sensors Journal	2024
Reviewed Papers for Journals	
Impact Factor: 4.3	
IEEE Transactions on Communications	2024
Reviewed Papers for Journals	
Impact Factor: 7.2	
	2022
Reviewed Papers for Journals	
Impact Factor: 5.606	
	2020
Reviewed Papers for Journals	
Impact Factor: 5.86	
	2019
Reviewed Papers for Journals	
Impact Factor: 1.31	
	2019
Reviewed Papers for Journals	