

Usman Ali


Assistant Professor

School of Electrical Engineering and Computer Science

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Contact:

LinkedIn:



About

Dr. Usman Ali is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Usman Ali has a PhD in Electrical Engineering. Dr. Usman Ali has published 10 research articles & conference papers having a citation count of 41, carried out 2 projects and filed 0 intellectual property.

Qualifications

MS in Mathematics	2012 - 2014
Georgia Institute of Technology , United States	
PhD in Electrical Engineering	2010 - 2016
Georgia Institute of Technology , United States	
MS in Electrical Engineering	2010 - 2012
Georgia Institute of Technology , United States	
BS in Electrical Engineering	2003 - 2007
UET Peshawar , Pakistan	
F.Sc in Pre-Engineering	2001 - 2003
BISE, Peshawar , Pakistan	
Matric (SSC) in Science	1990 - 2001
BISE, Peshawar , Pakistan	

Experience

Assistant Professor	2024- Present
School of Electrical Engineering and Computer Science	
Assistant Professor	2018 - 2018
School of Electrical Engineering and Computer Science	
Assistant Professor	2016 - 2017
University of Engineering and Technology Peshawar , University of Engineering and Technology Peshawar, KP 25120 Pakistan	
Lecturer	2008 - 2010
University of Engineering and Technology Peshawar , University of Engineering and Technology Peshawar, KP 25120 Pakistan	

Awards

Fulbright Fellow	2010
Fulbright Fellowship for MS leading to PhD at Georgia Tech (2010 - 2016)	
Gold Medal	2007
Gold Medal in B.S for 1st position in Electrical Engineering	
Presidential Award	2007
Presidential Award in B.S for standing 1st in the entire 14 departments of UET Peshawar	
1st Position	2003
First Position in Entrance Test conducted by ETEA for UET Peshawar. (736/800)	
Gold Medal	2003
Gold Medal in F. Sc for 1st position in Peshawar Board (BISE Peshawar)	

Research Projects

National Projects

Securing Socio-Economic Stability and Data-Driven Resilience for Ungauged Namal Valley Watershed at Monsoon Margins - Phase 2	2023
Funding Agency: DAAD	
Amount: PKR 2,773,438.00	
Status: Completed	
Securing Socio-Economic Stability and Data-Driven Resilience for Ungauged Namal Valley Watershed at Monsoon Margins	2022
Funding Agency: DAAD	
Amount: PKR 11,699,289.00	
Status: Completed	

International Projects

Research Articles

A Demand Response based solution to Overloading in Underdeveloped Distribution Networks	2021
<i>Muhammad Jibran Hasan Arshad Nasir Faran Qureshi Usman Ali Colin Jones Imran Mahmood</i>	
<i>IEEE Transactions on Smart Grid</i> , Volume12, Issue 5, Pages 4059-4067	
Impact Factor: 10.275 Quartile: 1 Citations: 15	
DOI: https://doi.org/10.1109/TSG.2021.3079959	
Motion-Communication Co-Optimization With Cooperative Load Transfer in Mobile Robotics: An Optimal Control Perspective	2019
<i>Usman Ali Hong Cai Yasamin Mostofi Yorai Wardi</i>	
<i>IEEE Transactions on Control of Network Systems</i> , Volume 6, Issue 2, Pages 621-632	
Impact Factor: 3.467 Quartile: 2 Citations: 26	
DOI: 10.1109/TCNS.2018.2863048	

Conference Proceedings

Hydrological Modelling of Data-Scarce Catchments: A Case Study of Namal Valley <i>Muhammad Kashif Hasan Arshad Nasir Usman Ali Talha Manzoor</i> <i>IEEE International Geoscience and Remote Sensing Symposium</i> , res.country(157,) Citations: N/A DOI: 10.1109/IGARSS46834.2022.9883310	2022
Identification of Supporting Hyperplanes in Scenario Optimisation Problems with Random Linear Constraints <i>Hamza Mahmood Hasan Arshad Nasir Usman Ali</i> <i>IEEE Conference on Decision and Control (CDC)</i> , res.country(259,) Citations: N/A DOI: 10.1109/CDC42340.2020.9303867	2020
A Demand Response Framework to Overcome Network Overloading in Power Distribution Networks <i>Muhammad Jibran Hasan Arshad Nasir Faran Qureshi Usman Ali Colin Jones</i> <i>IFAC World Congress, Germany</i> , res.country(57,) Citations: N/A DOI: Not Available Yet	2020
Motion and communication co-optimization with path planning and online channel prediction <i>Usman Ali Hong Cai Yasamin Mostofi Yorai Wardi</i> <i>2016 American Control Conference (ACC)</i> , res.country(233,) Citations: N/A DOI: 10.1109/ACC.2016.7526789	2016
Optimal Pesticide Scheduling in Precision Agriculture <i>Austin Jones Usman Ali Magnus Egerstedt</i> <i>2016 ACM/IEEE 7th International Conference on Cyber-Physical Systems (ICCPS)</i> , res.country(12,) Citations: N/A DOI: 10.1109/ICCPS.2016.7479110	2016
A multiple shooting technique for solving optimal control problems with application to power aware networks <i>Usman Ali Yorai Wardi</i> <i>Analysis and Design of Hybrid Systems ADHS 15</i> , res.country(233,) Citations: N/A DOI: 10.1016/j.ifacol.2015.11.189	2015
An Optimal Control Approach for Communication and Motion Co-optimization in Realistic Fading Environments <i>Usman Ali Yuan Yan Yasamin Mostofi Yorai Wardi</i> <i>2015 American Control Conference (ACC)</i> , res.country(233,) Citations: N/A DOI: 10.1109/ACC.2015.7171180	2015
Optimal control of switched dynamical systems under dwell time constraints <i>Usman Ali Magnus Egerstedt</i> <i>53rd IEEE Conference on Decision and Control</i> , res.country(233,) Citations: N/A DOI: 10.1109/CDC.2014.7040117	2014

Editorial Activities

IEEE Transactions on Automatic Control Reviewed Papers for Journals Impact Factor: 6.2	2024
IEEE Transactions on Automatic Control Reviewed Papers for Journals Impact Factor: 6.2	2024
Automatica Reviewed Papers for Journals	2022

Impact Factor: 6.150	
A Journal of IFAC, the International Federation of Automatic Control	2022
Reviewed Papers for Journals	
Impact Factor: 6.150	
	2021
Reviewed Papers for Journals	
Impact Factor: Not Available	
	2021
Reviewed Papers for Journals	
Impact Factor: Not Applicable	
	2021
Reviewed Papers for Journals	
Impact Factor: Not Applicable	
	2021
Reviewed Papers for Journals	
Impact Factor: Not Applicable	
	2021
Reviewed Papers for Journals	
Impact Factor: Not Applicable	
	2021
Reviewed Papers for Journals	
Impact Factor: Not Applicable	
	2021
Reviewed Papers for Journals	
Impact Factor: Not Applicable	
	2019
Reviewed Papers for Journals	
	2019
Reviewed Papers for Journals	
Impact Factor: 4.802	
	2019
Reviewed Papers for Journals	
	2019
Reviewed Papers for Journals	
Impact Factor: -	
	2019
Reviewed Papers for Journals	
	2019
Reviewed Papers for Journals	
Impact Factor: -	
	2018
Reviewed Papers for Journals	
Impact Factor: 9.515	
	2018
Reviewed Papers for Journals	
Impact Factor: 6.355	
	2017
Reviewed Papers for Journals	