Usman Illahi

Associate Professor

College of Aeronautical Engineering

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About

Dr. Usman Illahi is working as Associate Professor in the College of Aeronautical Engineering. Dr. Usman Illahi has a PhD in RF and Microwave. Dr. Usman Illahi has published 15 research articles & conference papers having a citation count of 462, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in RF and Microwave Universiti Kuala Lumpur , Malaysia	2016 - 2019
MSc in Electronic Communication	2011 - 2012
University of Nottingham, Malaysia Campus , Malaysia	
B.Sc (Hon) in Communication	2003 - 2007
UET Peshawar , Pakistan	
Experience	
Associate Professor	2024- Present
College of Aeronautical Engineering	
Assistant Professor	2024 - 2024
College of Aeronautical Engineering	
Assistant Professir	2014 - 2024
Gomal University, Indus Highway Dera Ismail Khan	

Gomal University, Indus Highway Dera Ismail Khan

Lecturer

 $\label{thm:conditional} \mbox{Gomal University , Indus Highway Dera Ismail Khan}$

Executive Engineer
Wateen Telecom Limited, Main Walton Road, Walton Cantt., Lahore

2007 - 2009

2012 - 2014

2009 - 2011

Research Articles

Lecturer

Design of an optimized low-profile UWB rectangular dielectric resonator antenna with moon-shaped ground for 5G – millimeter wave applications

2025

Muhammad Usal Ali Lway Faisal Abdulrazak Javed Iqbal Usman Illahi Ghaffer Iqbal Kiani Rehan Ali Khan Hela Elmannai AEU - International Journal of Electronics and Communications, Volume:200, Article Number:155903, Pages:11

Impact Factor: 3.2 | Quartile: 2

DOI: https://doi.org/10.1016/j.aeue.2025.155903

Circularly polarized dual-port MIMO DRA for future Wi-Fi 6E applications

2024

Javed Iqbal Usman Illahi Shahid Mahmood Ramay Mohamad Ismail Sulaiman International Journal of Microwave and Wireless Technologies, Pages 1-12

Impact Factor: 1.400 | Quartile: 3 | Citations: 5
DOI: https://doi.org/10.1017/S1759078724000576

Design and development of a new circularly polarized MIMO wearable DRA for WBAN applications

2024

Usman Illahi Javed Iqbal Shahid Mahmood Ramay Mohamad Ismail Sulaiman

AEU - International Journal of Electronics and Communications, Volume 177, Article Number 155208

Impact Factor: 3.000 | Quartile: 2 | Citations: 6
DOI: https://doi.org/10.1016/j.aeue.2024.155208

A new deep learning-based technique for rice pest detection using remote sensing

Syeda Igra Hassan Muhammad Mansoor Alam Usman Illahi Mazliham Mohd Suud

PeerJ Computer Science, Volume 9, Article Number e1167

Impact Factor: 3.500 | Quartile: 1 | Citations: 16

DOI: 10.7717/peerj-cs.1167

Rice Crop Counting Using Aerial Imagery and GIS for the Assessment of Soil Health to Increase Crop Yield

2022

2023

Syeda Igra Hassan Muhammad Mansoor Alam Muhammad Yousuf Irfan Zia Muhammad Rashid Usman Illahi Mazliham Mohd Su'ud

Sensors, Volume 22, Issue 21, Article Number 8567 Impact Factor: 3.900 | Quartile: 2 | Citations: 14

DOI: 10.3390/s22218567

Bandwidth Enhancement and Generation of CP of Yagi-Uda-Shape Feed on a Rectangular DRA for 5G

2022

Applications

Inam Bari Javed Iqbal Haider Ali Abdul Rauf Muhammad Bilal Naveed Jan Usman Ilahi Muhammad Arif Muhammad Amir Khan Rania M. Ghoniem

Micromachines, Volume 13(11), Article Number 1913 Impact Factor: 3.523 | Quartile: 2 | Citations: 11 DOI: https://doi.org/10.3390/ mi13111913

A Novel Design and Development of a Strip-Fed Circularly Polarized Rectangular Dielectric Resonator

2022

Antenna for 5G NR Sub-6 GHz Band Applications

Usman Illahi Javed Iqbal Muhammad Irfan Mohamad Ismail Sulaiman Muhammad Abbas Khan Abdul Rauf Inam Bari Mujeeb Abdullah Fazal Muhammad

Grzegorz Nowakowski Adam Glowacz

Sensors, Volume 22, Issue 15, Article Number 5531 Impact Factor: 3.9 | Quartile: 2 | Citations: 17

DOI: 10.3390/s22155531

Mutual Coupling Reduction through Defected Ground Structure in Circularly Polarized, Dielectric Resonator-Based MIMO Antennas for Sub-6 GHz 5G Applications

2022

Anwar ali Jijun Tong Javed Iqbal Usman Illahi Abdul Rauf Saeed Ur Rehman Haider Ali Muhammad Mansoor Qadir Muhammad Amir Khan Rania M.

Ghoniem

Micromachines, Volume 13, Issue 7, Article Number 1082

Impact Factor: 3.523 | Quartile: 2 | Citations: 34 DOI: https://doi.org/10.3390/ mi13071082

Bandwidth enhancement by using parasitic patch on dielectric resonator antenna for sub-6 GHz 5G NR

2022

bands application

J. Iqbal Usman Illahi M.N.M. Yasin Mahmoud A. Albreem M.F. Akbar Alexandria Engineering Journal, Volume 61, Issue 6, Pages 5021-5032

Impact Factor: 6.800 | Quartile: 1 | Citations: 37 DOI: https://doi.org/10.1016/j.aej.2021.09.049

A Systematic Review on Monitoring and Advanced Control Strategies in Smart Agriculture

2021

Syeda Iqra Hassan Muhammad Mansoor Alam Usman Illahi Mohammed A. Al Ghamdi Sultan H. Almotiri Mazliham Mohd Su'ud

IEEE Access, Volume 9, Pages 32517-32548 Impact Factor: 3.476 | Quartile: 2 | Citations: 147

DOI: 10.1109/ACCESS.2021.3057865

Design and development of a singly-fed circularly polarized rectangular dielectric resonator antenna for WiMAX/Satellite/5G NR band applications

2020

Usman Illahi Javed Igbal Mohamad Ismail Sulaiman Mansoor Alam Mazliham Mohd Su'ud Muhammad Irfan Khattak AEU - International Journal of Electronics and Communications, Volume 126, Article Number 153443

Impact Factor: 3.183 | Quartile: 2 | Citations: 27

Design of New Circularly Polarized Wearable Dielectric Resonator Antenna for Off-Body

2019

Communication in WBAN Applications

Usman Illahi Javed Igbal Mohammad Ismail Sulaiman Muhammad Mansoor Alam Mazliham Mohd Su'Ud Mohd Haizal Jamaluddin Mohd Najib Mohd Yasin

IEEE Access, Volume 7, Pages 150573-150582 Impact Factor: 3.745 | Quartile: 1 | Citations: 32

DOI: https://doi.org/10.1016/j.aeue.2020.153443

DOI: 10.1109/ACCESS.2019.2947772

Bandwidth Enhancement and Generation of CP by Using Parasitic Patch on Rectangular DRA for

2019

Wireless Applications

Javed Iqbal Usman Illahi Mohamad Ismail Sulaiman Muhammad Mansoor Alam Mazliham Mohd Su'ud Mohd Najib Mohd Yasin Mohd Haizal Jamaluddin

IEEE Access , Volume 7, Pages 94365-94372
Impact Factor: 3.745 | Quartile: 1 | Citations: 20

DOI: 10.1109/ACCESS.2019.2924468

Singly-Fed Rectangular Dielectric Resonator Antenna With a Wide Circular Polarization Bandwidth and Beamwidth for WiMAX/Satellite Applications

2019

Mohamad Ismail Sulaiman Usman Illahi Javed Iqbal Muhammad Mansoor Alam Mohd Haizal Jamaluddin

IEEE Access , Volume 7, Pages 66206-66214 **Impact Factor:** 3.745 | **Quartile:** 1 | **Citations:** 26

DOI: 10.1109/ACCESS.2019.2917702

Mutual Coupling Reduction Using Hybrid Technique in Wideband Circularly Polarized MIMO Antenna for WiMAX Applications

2019

Mohamad Ismail Sulaiman Javed Iqbal Usman Illahi Muhammad Mansoor Alam Mazliham Mohd Su'ud Mohd Najib Mohd Yasin

IEEE Access , Volume 7, Pages 40951-40958 **Impact Factor:** 3.745 | **Quartile:** 1 | **Citations:** 70

DOI: 10.1109/ACCESS.2019.2908001