



Faculty Profile

Full Name: Engr. Dr. Faraz Ahmed Shaikh

Position/ Designation: Associate Professor/Director-QEC

Faculty/Department: Electrical Engineering

Email Address: faraz.ahmed@nhu.edu.pk

director.qec@nhu.edu.pk



Short Introduction

Obtained his Bachelor in Electronics Engineering and Master in Telecommunication Engineering from Hamdard University Karachi, Pakistan in 2008 and 2011 .He worked as a Faculty Member at a position of Assistant Professor in Electrical Engineering Department from 2009 to 2019 in UIT (NED University Pakistan). He has started his Ph.D. degree (Engineering) from International Islamic University Malaysia (IIUM) in 2016 and completed in 2019, with a focus on digital electronics and microwave imaging non-destructive testing techniques, digital signal & image processing and implementation for practical model. Currently working as an Assistant Professor in Electrical Engineering Department and research scholar in Nazeer Hussain University Karachi-Pakistan.

Experience

Associate Professor (Electrical Engineering Department).....September 2020 – Present
Nazeer Hussain University(NHU) Karachi, Pakistan.

Graduate Researcher (Electrical and Computer Engineering Department)... September 2016 – August 2020
International Islamic University Malaysia (IIUM) Kuala-Lumpur, Malaysia.

Assistant Professor (Electrical Engineering Department).....August 2009 – September 2019
Usman Institute Of Technology (NED University) Karachi, Pakistan.



Educational Information

PhD (Engineering).....February 2016 – December 2019
Department of Electrical Engineering
Specialization in Electronics and Signal Processing-Image Communication
International Islamic University Malaysia (IIUM) Kuala-Lumpur, Malaysia

Master of Engineering.....May 2009 – September 2011
Major in Telecommunication Engineering
Hamdard University Karachi, Pakistan

Bachelor of Engineering.....August 2004 – September 2008
Major in Electronics Engineering
Hamdard University Karachi, Pakistan

Achievements, Research/Publications

- Shaikh, F. A., Khan, S., Zaharudin, Z., Alam, A. Z., Rahman, F. D. B. A., Badron, K. Badron & Shahid, Z. (2018). Recognition of Metal Objects inside Wall using Antipodal Vivaldi Antenna. Indonesian Journal of Electrical Engineering and Computer Science, 11(1), 27-35. ISSN: 2502-4752. (Scopus-Index Journal; IF:0.97)
- Shaikh, F.A, & Khan, S. (2018). Design and Optimization of Ultra-Wideband Antipodal Vivaldi Antenna for Radar and Microwave Imaging Application. Sindh University Research Journal (Science Series), 50(3D), 06-09. ISSN: 1813-1743. (ISI-Index Journal)
- Shaikh, F. A., Khan, S., Alam, A. Z., Baillargeat, D., Habaebi, M. H., Yaacob, M. Bin. & Shahid, Z. (2019). Design and Parametric Evaluation of UWB Antenna for Array Arrangement. Bulletin of Electrical Engineering and Informatics, 8(3). ISSN: 2302-9285. (Scopus-Index Journal; IF:1.90)



- Shaikh, F. A., Khan, S., Alam, Z., HASSAN, A., HASHIM, A., BADRON, K., & YAACOB, M. (2018). High Gain UWB Horn Antenna for Concealed Metal Detection and Microwave Imaging Application. *Sindh University Research Journal (Science Series)*, 50(3D), 161-164. ISSN: 1813-1743. (ISI-Index Journal)
- Shaikh Faraz Ahmed, Sheroz Khan, AHM Zahirul Alam, Mohamed Hadi Habaebi, Dominique Baillorgeat, "Design an Ultra-Wideband Modified Wilkinson Power Divider Fed-by Balanced Antipodal Vivaldi Antenna Array for Imaging Applications" *International Journal of Engineering and Advanced Technology (IJEAT)* ISSN: 2249 – 8958, Volume-9, Issue-2, December 2019. (Scopus-Index Journal; IF:1.0)
- Zarimin Zaharudin, Ahmad Fairuzabadi Mohd Mansor, Ahmad Anwar Zainuddin, Ismail Adam, Sheroz Khan, Anis Nurashikin Nordin, Shaikh Faraz Ahmed, Kushsairy Abdul Kader, "Design and Dimensional Measurement of Interdigital Sensor for Blood Glucose Measurement through Non-Invasive Method" *International Journal of Recent Technology and Engineering (IJRTE)*. ISSN: 2277-3878, Volume-8 Issue-4, November 2019. (Scopus-Index Journal; IF:1.0)
- Olanrewaju, R. F., Khan, B. U. I., Anwar, F., Khan, A. R., Shaikh, F. A., & Mir, M. S. (2016). MANET–A cogitation of its design and security issues. *Middle-East Journal of Scientific Research*, 24(10), 3094-3107. ISSN 1990-9233. (Scopus-Index Journal)
- Shaikh Faraz Ahmed, AHM Zahirul Alam, Sheroz Khan, Zarimin Zaharudin, Mashkuri Bin Yaacob, Zeeshan Shahid, Dominique Baillorgeat "UWB Balance Antipodal Vivaldi Antenna using High Permittivity Dielectric Director for Enhanced Radiation Characteristics" ICISE, IEEE conference Malaysia IIUM Gombak jointly organized by IIUM with IU Islamabad, 20-21 March 2018. (IEEE-Scopus-Index Conference)
- Shaikh Faraz Ahmed, Sheroz Khan, AHM Zahirul Alam, Farah Diyana Bt. Abdul Rahman, Khairayu Bt. Badron, Mashkuri Bin Yaacob, Zeeshan Shahid "Improved Radiation Characteristic of Balanced Antipodal Vivaldi Antenna in Array Configuration" ICISE, IEEE conference Malaysia IIUM Gombak jointly organized by IIUM with IU Islamabad, 20-21 March 2018. (IEEE-Scopus-Index Conference)
- Shaikh Faraz Ahmed, Sheroz Khan, AHM Zahirul Alam, Dominique Baillorgeat, Mohamed Hadi Habaebi, Mashkuri Bin Yaacob, Jawad Shah, Zeeshan Shahid "Comparative Analysis of UWB Balance Antipodal Vivaldi Antenna for Array Configuration" IEEE, 7th International Conference on Computer and Communication



Engineering (ICCCE), Malaysia IIUM Gombak organized by IIUM, 19-20 September 2018. (IEEE-Scopus-Index Conference)

- Shaikh Faraz Ahmed, Sheroz Khan, Ahm Zahirul Alam, Mohamed Hadi Habaebi, Othman Omran Khalifa, and Talha Ahmed Khan. "Design and analysis of 1-to-4 wilkinson power divider for antenna array feeding network." International Conference on Innovative Research and Development (ICIRD), 2018 IEEE on, pp. 1-4. IEEE, 2018. (IEEE-Scopus-Index Conference)
- Shaikh Faraz Ahmed, Sheroz Khan, AHM Zahirul Alam, Mohamed Hadi Habaebi, Dominique Baillorgeat, Kushsairy Kadir, Jawad Shah, Zeeshan Shahid, "UWB Antenna Based Time-Domain Approach for Through the Walls Gap Estimation" IEEE, International Instrumentation and Measurement Technology Conference (I2MTC) 2019. Auckland, New Zealand, May 20-23, 2019. (IEEE-Scopus-Index Conference)
- Shaikh Faraz Ahmed, Sheroz Khan, Ahm Zahirul Alam, Mohamed Hadi Habaebi, Kushsairy Kadir, Zeeshan Shahid, and Talha Ahmed Khan. "High-Gain Rectangular-Fins Shaped Balanced Antipodal Vivaldi Antenna Array Extended by Dielectric for wide-band Imaging Application." International Conference on Innovative Research and Development (ICIRD), 2019, University of Indonesia, Jakarta IEEE on June 28-30, 2019. (IEEE-Scopus-Index Conference)
- Talha Ahmed Khan, Muhammad Alam, Kushsairy Kadir, Sheroz Khan, M.S. Mazliham, Shaikh Faraz Ahmed, Syed Faiz Ahmed, Zeeshan Shahid. "An Implementation of Electroencephalogram Signals Acquisition to Control Manipulator through Brain Computer Interface" International Conference on Innovative Research and Development (ICIRD), 2019, University of Indonesia, Jakarta IEEE on June 28-30, 2019. (IEEE-Scopus-Index Conference)
- Irfan Yousuf, Zeeshan Shahid, Sheroz Khan, Shaikh Faraz Ahmed. "Ensuring the Water Needs of Tharparkar Using Solar Energy Based Water Pumping System" ICISE, IEEE conference Malaysia IIUM Gombak jointly organized by IIUM with IU Islamabad, 20-21 March 2018. (IEEE-Scopus-Index Conference)
- Tahzeeb Jamal ,Talha Ahmed Khan, Shahzad Nasim, Shaikh Faraz Ahmed, Sheroz Khan, Mashkuri Bin Yaacob, Farah Diyana Bt. Abdul Rahman, Khairayu Bt. Badron "Comparative Performance Analysis of Various Optimized Inset Fed Patch Antennas Using Differential Evolution (DE)" ICISE, IEEE conference Malaysia IIUM Gombak



jointly organized by IIUM with IU Islamabad , 20-21 March 2018. (IEEE-Scopus-Index Conference)

- Sumayya Zeeshan, Zeeshan Shahid, Sheroz Khan, Shaikh Faraz Ahmed. "Solid Waste Management in Korangi District of Karachi using GPS And GIS: A Case study" IEEE, 7th International Conference on Computer and Communication Engineering (ICCCCE) Malaysia IIUM Gombak organized by IIUM, 19-20 September 2018. (IEEE-Scopus-Index Conference)
- Sharjeel Imtiaz, Avais Khatri, Imaad-ud-din Motan, Shaikh Faraz Ahmed, Sheroz Khan " Finger-Worn Assistive Device for Detection Tracking and Recognition" IEEE, 7th International Conference on Computer and Communication Engineering (ICCCCE) Malaysia IIUM Gombak organized by IIUM, 19-20 September 2018. (IEEE-Scopus-Index Conference)
- Talha Khan, Muhammad Alam, Shaikh Faraz Ahmed, Sheroz Khan, Kushsairy Kadir, MS. Mazliham, Zeeshan Shahid, Muhammad Yahya, "Flash Floods Prediction using Real Time data: An Implementation of ANN-PSO with less False Alarm" IEEE, International Instrumentation and Measurement Technology Conference (I2MTC) 2019. Auckland, New Zealand, May 20-23, 2019. (IEEE-Scopus-Index Conference)
- Morshidi, Wan Hafiy Wan, Zarimin Zaharudin, Sheroz Khan, Anis Nurashikin Nordin, Shaikh Faraz Ahmed, Ismail Adam, and Kushsairy Abdul Kader. "Inter-digital sensor for non-invasive blood glucose monitoring." In Innovative Research and Development (ICIRD), 2018 IEEE International Conference on, pp. 1-6. IEEE, 2018. (IEEE-Scopus-Index Conference)
- Shaikh Faraz Ahmed, Sheroz Khan, Zarimin Zaharudin, AHM Zahirul Alam, Mashkuri Bin Yaacob, Zeeshan Shahid, Farah Diyana Bt Abdul Rahman, and Khairayu Bt Badron. "Ultra-wideband antipodal Vivaldi antenna for radar and microwave imaging application." In Engineering Technologies and Social Sciences (ICETSS), 2017 IEEE 3rd International Conference on, pp. 1-4. IEEE, 2017. (IEEE-Scopus-Index Conference)
- Zaharudin, Zarimin, Ismail Adam, Kushsairy Abdul Kadir, Sheroz Khan, Anis Nurashikin, Shaikh Faraz Ahmed, Aisha Hassan Abdalla, Noreha Abdul Malik, and Wan Hafiy Wan Morshidi. "Optimized RC timing technique for accurate measurement of minute capacitance changes." In Engineering Technologies and Social Sciences (ICETSS), 2017



IEEE 3rd International Conference on, pp. 1-5. IEEE, 2017. (IEEE-Scopus-Index Conference)

- Shaikh Faraz Ahmed, Sheroz Khan, Zarimin Zaharudin, AHM Zahirul Alam, Farah Diyana Bt Abdul Rahman, Khairayu Bt Badron, Mashkuri Bin Yaacob, Zeeshan Shahid, Humaiz Shaikh, and Syed Faiz Ahmed. "Detection and analysis of metal impairment inside wall using UWB Modified Antipodal Vivaldi Antenna." In Engineering Technologies and Applied Sciences (ICETAS), 2017 4th IEEE International Conference on, pp. 1-5. IEEE, 2017. (IEEE-Scopus-Index Conference)
- Talha Ahmed Khan, Muhammad Alam, Kushsairy Kadir, Zeeshan Shahid M.S. Mazliham and Shaikh Faraz Ahmed. "Impact of Learning rate in the development of Multi-Layer Perceptron for flash flood assessment" Proc. of the 2019 IEEE 6th International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2019) 27-29 August 2019, Kuala Lumpur, Malaysia. (IEEE-Scopus-Index Conference)
- Talha Ahmed Khan, Shaikh Faraz Ahmed, Sheroz Khan and M Farhan Siddiqui. "Real-Time Wireless Monitoring for Three Phase Motors in Industry: A Cost-Effective Solution using IoT" Proc. of the 2019 IEEE 6th International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2019), 27-29 August 2019, Kuala Lumpur, Malaysia. (IEEE-Scopus-Index Conference)
- Shaikh Faraz Ahmed, Sheroz Khan, AHM Zahirul Alam, Zeeshan Shahid and Talha Ahmed Khan. "Design and Comparative Validation of Antipodal Vivaldi Antenna using Periodic Elliptical Slots with Extended Triangular shaped as Dielectric lens for Microwave Imaging Applications." Proc. of the 2019 IEEE 6th International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2019), 27-29 August 2019, Kuala Lumpur, Malaysia. (IEEE-Scopus-Index Conference)
- Abdullah Ahmed S. Basaloom, Mohamed Hadi Habaebi, Sheroz Khan and Shaikh Faraz Ahmed. "Increasing RPL-based LLN Lifespan using Harvested Solar Energy." Proc. of the 2019 IEEE 6th International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2019), 27-29 August 2019, Kuala Lumpur, Malaysia. (IEEE-Scopus-Index Conference)



- Faraz Ahmed Shaikh ,Sheroz Khan , Bilal Ahmad Alvi, AHM Zahirul Alam, Dominique Baillorgeat, M Kamran Joyo. “Study of Parametric Effects due to Mutual Coupling using High Permittivity Dielectric-Director in Planar Array Configuration” Proc. of the 7th IEEE International Conference on Engineering Technologies and Applied Sciences (ICETAS 2020) ,18-20 December 2020, Kuala Lumpur, Malaysia.