



M. Ghazanfar Ullah

Professor – Dept. of Electrical Engg.

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Qualification

- Ph.D. (Telecommunication and Control Engineering)
MUET – 2013
- M.Engg. (Computer Systems Engineering)
NEDUET – 2002
- B.E. (Computer Systems Engineering)
NEDUET – 1996

Area of Specialization

- Digital Image Processing
- Computer Vision
- Computer Graphics
- Computer Programming

Work Experience

- Professor – Dept. Of Electrical Engineering
Usman Institute of Technology
2002 – Present
- Lecturer – Dept. of Computer Science
Iqra University – Main Campus
1999 – 2001

Membership & Affiliation

- Pakistan Engineering Counsel (PEC)

Research Interests

In a broad outline, my long term research interests are to try to bring together several unique and well-documented image processing techniques applicable to a variety of applications especially related to medical, bioinformatics and agriculture. My particular focus is on applying image processing techniques on plant phenotyping and identification of diseases using digital images of blood samples and vascular pattern.

Courses Taught

- Programming Fundamentals
- Digital Logic Design
- Computer Fundamentals

Publications & Conferences

1. P. Jatoi, A. Memon, B. S. Chowdhry, **M. Ghazanfar Ullah**, S. Latif, “An Efficient Hybrid Cryptographic Algorithm, Consuming Less Time for Exchanging Information in Wireless Sensor Networks”, Springer International Journal on Wireless Personal Communications, vol. 82, no. 3, 2015, doi: 10.1007/s11277-015-2748-9. (Impact Factor = 0.97)
2. **M. Ghazanfar Ullah**, Bhawani S. Chowdhry, A. Qadeer Rajput, A. Ursani, Shiraz latif, “Wireless Body Area Sensor Network Authentication using Voronoi Diagram (VD) of Retinal Vascular Pattern”, Springer International Journal on Wireless Personal Communications – Special Edition, vol. 75, no. 2, 2014, doi: 10.1007/s11277-014-1726-y. (Impact Factor = 0.97)
3. P. Jatoi, A. Memon, B. S. Chowdhry, **M. Ghazanfar Ullah**, S. Latif “Exchanging Information in WSN at Low Time Consumption in Efficient Hybrid

Cryptographic Algorithm”, WirelessVITAE 2014 - 3rd Mobility for Life Conference on Technology, Telecommunication and Problem Based Learning, Aalborg University – Denmark, 2014.

4. S. Latif, A. Hadi, A. Memon, Bhawani S. Chowdhry and **M. Ghazanfar Ullah**, “FaMWiFi: Fingerprinting/Sampling & Monitoring of WiFi signals for Indoor Positioning”, 1st International Conference on Modern Communication and Computing Technologies 26-28 February 2014, QUEST, Pakistan.
5. S. Latif, A. Hadi, A. Memon, Bhawani S. Chowdhry and **M. Ghazanfar Ullah**, “Accuracy Assessment of D-model for Modeling Wall Attenuation in Indoor Environment” , CICSyN2014, 6th International Conference on Computational Intelligence, Communication Systems and Networks, Republic of Macedonia, 27-29 May, 2014.
6. **M. Ghazanfar Ullah**, Bhawani S. Chowdhry, A. Qadeer Rajput, A. Karim Baloch, Shiraz Latif, “An Efficient Human Identification Based On Voronoi Diagram (VD) Of Retinal Vascular Pattern”, 2nd International Conference on 'Mobility for Life' on 14-16 March 2013, Nashik, India.
7. Zeeshan Ali, Shiraz Latif, Kashif Ishaque, Saba Javed, and **M. Ghazanfar Ullah**, “Comparative Tuning of the Conventional Fuzzy Logic Controller for the Buck Power Converter”, 24th IASTED International Conference on Simulation and Modeling on 17-19 July 2013, Banff, Canada.
8. S. Latif, Hassan Qazi, S. Khan, A. Memon, **M. Ghazanfar Ullah**, “Location Determination for mobile robots in Indoor Navigation”, Sindh University Research Journal SURJ (Sci. Ser.)
9. Hassan Qazi, Shiraz Latif, Aftab Memon, **M. Ghazanfar Ullah**, “Radio Signal Based Mobile Robot Positioning in Indoor Environment - A Review”, 3rd International Conference on Computer and Emerging Technologies, Pakistan, Feb. 2013.
10. Piyar Ali, Bhawani S. Chowdhry, Shiraz Latif, Aftab Memon, **M. Ghazanfar Ullah**, “Comparison of Energy/Power Consumption on Different Nodes in a Wireless Sensor Network”, 3rd International Conference on Computer and Emerging Technologies, Pakistan, Feb. 2013.
11. **M. Ghazanfar Ullah**, Bhawani S. Chowdhry, Shiraz Latif , Asif Siddiqui, G. A. Mallah, "DAPDNA-2 Performance Enhancement Using ALU Partitioning and Saturation Arithmetic for Digital Image/Signal Processing Applications", 4th IEEE International Conference on Computational Intelligence, Modeling and Simulation 2013, Kuantan, Malaysia, DOI: 10.1109/CIMSim.2012.70.
12. Shiraz Latif, **M. Ghazanfar Ullah**, Aftab Memon, Bhawani S. Chowdhry, and Javed Ahmed, “Comparison of D-Model and Wall-Attenuation Model for Signal Strength Estimations in Indoor Environment”, 4th IEEE International

Conference on Computational Intelligence, Modeling and Simulation 2013, Kuantan, Malaysia, DOI: 10.1109/CIMSim.2012.68

13. **M. Ghazanfar Ullah**, Bhawani S. Chowdhry, A. Qadeer Rajput, A. Karim Baloch, Shiraz Latif, "Performance analysis and Assessment of Delaunay Triangulation (Dt) Net and Polar Spectrum Techniques for Human Recognition through Retinal Scanning", SURJ (Sc. Ser.) Vol. 44(2) - 2012.
14. **M. Ghazanfar Ullah**, Bhawani S. Chowdhry, A. Qadeer Rajput, A. Karim Baloch, Shiraz Latif, "Performance Evaluation Of Retina Based Human Identification Using Polar Spectrum And Delaunay Triangulation (Dt) Net", 2nd International Conference on Computer and Emerging Technologies, Pakistan, Feb. 2012.
15. **M. Ghazanfar Ullah**, Bhawani S. Chowdhry, Shiraz Latif, A. Qadeer Rajput and Javed Ahmed, "Pattern Matching Algorithm using Polar Spectrum in Retina Recognition for Human Identification System", Australian Journal of Basic and Applied Sciences, Vol. 5, October, 2011, ISSN 1385-1392.
16. Shiraz Latif, Binghao Li, Chris Rizos, Aftab Memon and **Ghazanfar Khan**, "D-Model: A New Perspective for Modeling Radio Signal Propagation in Indoor Environment", Australian Journal of Basic and Applied Sciences, Vol. 5, October, 2011, ISSN 1385-1392.
17. **M. Ghazanfar Ullah**, Minesh Ade, Shyam S. Wagle and Raza A. Jafri, "An Efficient Human Identification System Based On Retina Vascular Pattern and Delaunay Triangulation (DT) Net", 3rd International Conference on Bioinformatics and Biomedical Technology (ICBBT 2011), Sanya, China.
18. Minesh Ade, Nikolaos D. Doulamis, Shyam S. Wagle, **M. Ghazanfar Ullah**, "Collaboration of P4P and IMS: Solution to P2P Challenges", 2nd International Conference on Wireless Communication, Vehicular Technology, Information Theory and Aerospace and Electronic Systems Technology 2011 (Wireless VITAE 2011), Denmark.
19. Minesh Ade, Nikolaos D. Doulamis, Shyam S. Wagle, **M. Ghazanfar Ullah**, "TeleHealth: Healthcare Technologies and TeleHealth Emergency (THE) System", 2nd International Conference on Wireless Communication, Vehicular Technology, Information Theory and Aerospace and Electronic Systems Technology 2011 (Wireless VITAE 2011), Denmark.
20. Shyam S. Wagle, Nikolaos D. Doulamis, Minesh Ade, **M. Ghazanfar Ullah**, "Performance Analysis of IP Multimedia Subsystem (IMS) Signaling in Heterogeneous Access Networks", 2nd International Conference on Wireless Communication, Vehicular Technology, Information Theory and Aerospace and Electronic Systems Technology 2011 (Wireless VITAE 2011), Denmark.

21. Shyam S. Wagle, Minesh Ade and **M. Ghazanfar Ullah**, "Network Transition from WiMAX to LTE", Journal of Computing, volume 3, Issue 1, January 2011.
22. Shyam S. Wagle, Minesh Ade and **M. Ghazanfar Ullah**, "Multimedia Session Continuity in IMS using Server Based and Device Based Approach in Heterogeneous Access Networks", International Journal of Computer and Applications, volume 2, 2011.