

Dr. Engr. MUHAMMAD BILAL

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EDUCATION

- **PhD (Electronics)**, International Islamic University Islamabad.

Paper Published:

- **Bilal, M.**, Ahmed, A.H., Shah, J.A., Kadir, K. and Ayob, M.Z., 2017, September. Comparison of L 1-norm surrogate functions used for the recovery of MR images. In Engineering Technology and Technopreneurship (ICE2T), 2017 International Conference on (pp. 1-4). IEEE.
- **Bilal, M.**, Shah, J.A., Qureshi, I.M. and Kadir, K., 2018. Respiratory Motion Correction for Compressively Sampled Free Breathing Cardiac MRI Using Smooth-Norm Approximation. International journal of biomedical imaging, 2018. **(ISI indexed)**
- **Bilal, M.**, Shah, J.A., Qureshi, I.M. and Ahmed, A.H., 2018. Motion Adaptive Wavelet Thresholding for Recovery of Compressively Sampled Static and Dynamic MR Images. Applied Magnetic Resonance, pp.1-15. **(IF 0.85)**
- **Muhammad Bilal**, Haris Anis, Najeeb Khan, Ijaz Qureshi, Jawad Shah, and Kushsairy A. Kadir, "Reduction of Motion Artifacts in the Recovery of Undersampled DCE MR Images Using Data Binning and L+S Decomposition," BioMed Research International, vol. 2019, Article ID 6139785, 11 pages, 2019. **(IF 2.197)**
- Ikram, S.; Shah, J.A.; Zubair, S.; Qureshi, I.M.; **Bilal, M.** Improved Reconstruction of MR Scanned Images by Using a Dictionary Learning Scheme. *Sensors* 2019, 19, 1918. **(IF 3.031)**
- M. Murad, **M. Bilal**, A. Jalil, A. Ali, K. Meh. and B. Khan, "Efficient Reconstruction Technique for Multi-Slice CS-MRI Using Novel Interpolation and 2D Sampling Scheme," in IEEE Access, vol. 8, pp. 117452-117466, 2020, doi: 10.1109/ACCESS.2020.3004731. **(IF 3.745)**
- **M.Phil (Electronics)**, Quaid-i-Azam University Islamabad, 2008

Division/Percentage: 1st / 79%

- B.E (Telecommunication), Institute of Engineering & technology (AIOU), 2005

Division/Percentage: 1st / 79%

PEC Registration Number: Tele/1226

PROFESSIONAL EXPERIENCE

- **Currently Co-supervising one PhD student.**
- **Lecturer (Electronics) (17-9-2011 - Present)**
Department of Electrical Engineering, Faculty of Engineering & Technology,

International Islamic University Islamabad.

Description: FET library in charge, PEC Accreditation committee member
Supervision of B.E final year projects, Members of different administrative committees, Taught Calculus I, ECD I, ECD II, Digital signal Processing, Signals & Systems to B.E level

- **Lecturer (Electronics)** (19-10-2010 to 14-9-2011)

Dr. A. Q. Khan Institute of Computer Sciences & Information Technology (KICSIT) Kahuta.
(Affiliated with UET Taxila)

Description: Supervision of B.E final year projects, Admission Coordinator,
Member of Different Committees, Industrial Visits Coordinator.
Taught Electronics I with lab, Advance Electronics, Communication System,
Signals & Systems and Electromagnetic Field Theory to B.E level

- **Lecturer (Electronics/Telecommunication)** (05-07-2008-15-10-2010)

Comwave Institute (DEC of Sarhad university) 1st Floor Kashif Plaza F-8 Markaz Islamabad.

Description: Supervision of B.S and M.Sc final year projects, Supervision and management of Electronics/Telecom. Labs.

Courses taught to B.S and M.Sc level.

AC & DC Circuit Analysis with Lab, Electronics I with Lab, Electronics II (OP AMP) with Lab, Electric Machine, Data Communication, Signals & System, Digital Signal Processing, Optoelectronics and Optical fiber, Laser and Applied Optics.

- **Lecturer (Telecommunication)** (01-12-2005 to 15-3-2006).

Prince Salman College of Technology Sultana Foundation Islamabad.

Description: **Coerces taught to diploma level**

Optoelectronics & Optical Fiber with LAB, Digital Communication and Computer Networks, Digital Logic Design.

- **Electronics Engineer** (05-01-2005 to 01-07-2005).

Signals R & D Establishment C/O Military College of Signals (NUST) Rawalpindi.

Description: Research, Design and implementation of communication boards.

Designing of printed circuit board (PCB) in PCAD, Testing and Troubleshooting of PCBs.