

CURRICULUM VITAE

1. **Name: Muhammad Shafi**

2. Education

Degree	Discipline	Institution	Country	Year
PhD	Computer Vision	Loughborough University	UK	2010
BSc	Computer Engineering	GIKI	Pakistan	2005

3. Academic experience

Institution	Rank	Title (Chair, Coordinator, etc.)	From- To	Full/Part Time
Islamic University in Madinah, KSA	Associate professor		27/08/2016-Date	Full time
Bannu University, Pakistan	Associate Professor	Chairman (Software Engineering Department)	03/06/2015-02/06/2016	Full time
University of Engineering & Technology Peshawar, Pakistan	Assistant Professor	Postgraduate Studies Advisor (Software Engineering Department)	30/04/2010-10/08/2015	Full time
Loughborough University, UK	Research Student		1/12/2006-12/02/2010	Full time
University of Engineering & Technology Peshawar, Pakistan	Lecturer		30/04/2006-30/11/2006	Full time

4. Non-Academic experience

Company	Title	Duties	From – To	Full/Part Time
Techlogix Inc Pakistan	Software Engineer	Software Design, Development and Testing	4/07/2005-30/04/2006	Full time

5. Certifications or professional registrations:

- a. Registered Engineer with Pakistan Engineering Council
- b.
- c.

6. Membership in professional organizations:

- a.
- b.
- c.

7. Honors and awards

- a.
- b.
- c.

8. Service activities (within and outside of the institution):

- a.
- b.
- c.

9. Publications and presentations from past five years:

- a. N. Khan, M. I. Khattak, N. Khan, M. Shafi, and L. Khan, "Recovery of information through Linear Prediction Technique in Attitude Estimation of Spacecraft Systems," Measurement, ISSN:0263-2241, vol.66, pp- 253-262, 2015.
- b. N.Ullah, M. I. Khattak, W. Shaoping and M. Shafi, "Fractional order adaptive fuzzy sliding mode controller for a position servo system subjected to aerodynamic loading and nonlinearities" Aerospace Science and Technology, ISSN: 1270-9638 ,vol. 43, pp.381-387, 2015.
- c. M. Shafi, M. Saleem, M. I. Khattak, I. A. Khan, and F. Iqbal, "Mining Social Media photos to Measure Point-of-Interest Connectivity," Sindh University Research Journal, vlo. 47, no. 2, pp. 307-312, 2015.
- d. M. I. Khattak, M. Shafi, M. Saleem, and N. Khan, "Variations in Return Loss of Patch Antenna in the Close Proximity of Human Body and Dielectric Filled Rectangular and Cylindrical Phantoms at 1.8GHz," Technical Journal UET Taxila ISSN: 2313-7770, vol.19, no. 3, pp-50-56, 2014.
- e. N. Ullah, M. I. Khattak, M. Shafi, and N. Khan, "A Robust Controller and its Optimization for a Nonlinear Dynamical System," Bahria university journal of information & communication technology ISSN: 2304-7593, vol. 7, no. 1, pp. 68-73, 2014.
- f. M. I. Khattak, M. Shafi, N. Ullah, G. Ahmad, and M. Saleem, "Effects of the Span of the Calibrating Frequency Scan on Resolution of Microwave Electronic Distance", Technical Journal UET Taxila, ISSN: 2313-7770, vol. 19, no. 4, pp. 30-33, 2014.
- g. N. Ullah, M. I. Khattak, and M. Shafi, "Chatter Free Sliding Mode Control using Fractional Operator and Fuzzy Logic system", NED University Journal of Research, ISSN: 1023-3873, vol. 12, no. 2, pp. 13-21, 2015.

- h. M. Usman, I. A. Khan, M. Shafi, and K. Ghani, "Towards an Efficient Urdu Keyboard Layout," *Sindh University Research Journal*, v. 47, no. 2, pp. 287-290, 2015.
- i. L. Ali, A. Sarwar, A. Jan, M. I. Khattak, M. Shafi, and Najvia "Identification of Seamless Connection in Merged Images using Evolutionary Artificial Neural Networks", *Technical Journal, UET Taxila* ISSN: 2313-7770, vol. 20, no. 2, pp. 34-41, 2015.
- j. L. Javed, M. Shafi, M. I. Khattak and N. Ullah, "Hand-written Urdu Numerals Recognition using Kohonen Self Organizing Maps ," *Sindh University Research Journal*, v. 47, no. 3, pp. 403-406, 2015.
- k. N. Minallah, A. Khalil, U. Farooq, A. Sardar, M.M. Bokhari and M. Shafi, "Performance of Video Coding Schemes with Reference to Intra-coded High Efficiency Video Coding (HEVC) ," *Sindh University Research Journal*, v. 47, no. 3, pp. 563-566, 2015.
- l. N. Saleem, M. Shafi, E. Mustafa, and A. Nawaz, "A Novel Binary Mask Estimation based on Spectral Subtraction Gain-Induced Distortions for Improved Speech Intelligibility and Quality" *Technical Journal UET Taxila*, ISSN: 2313-7770, vol. 20. (In Press)
- m. M. Fawad, K. Ghani, M. Shafi, I. A. Khan, M. I. Khattak, and N. Ullah, "Assessment of Quality Assurance practices in Pakistani Software Industry" *Technical Journal UET Taxila*, ISSN: 2313-7770, vol. 20, no. 2, pp. 109-114, 2015.
- n. N. ullah, M. I. Khattak , M. Shafi, and G. Ahmad, "A Tutorial on Adaptive Robust Position Control using Fuzzy Logic Compensation," *Journal of Engineering and Applied Science* ISSN:1023-962X, vol. 34, no.1, pp.100-103, 2015.
- o. S. Afridi, N. ullah, M. I. Khattak , G. Ahmad, and M. Shafi, "Performance Enhancement of Face Recognition System using Principal Component Analysis Merged with Discrete Wavelet Transform," *Journal of Engineering and Applied Science* ISSN:1023-962X, vol. 34, no.1, pp.76-83 , 2015.
- p. M. Shafi, F. Iqbal, I. A. Khan, M. I. Khattak, M. Saleem, and N. Khan, "A Framework for Word Spotting In Scanned Urdu Documents by Exploiting the Dot Orientation," *Life Science Journal* ISSN: 1097-8135, vol. 10, 2013.
- q. A. Nawaz, E. Mustafa, N. Saleem, M. I. Khattak, M. Shafi, "Solving Convex and Non-Convex Static and Dynamic Economic Dispatch Problems using Hybrid Particle Multi-Swarm Optimization," *Tehnički vjesnik / Technical Gazette*, vol. 24, No. 4. (In Press)
- r. A. Hassan, M. Shafi, and M. I. Khattak, "Multi-touch Collaborative Gesture Recognition based User Interfaces as Behavioural Interventions for Children with Autistic Spectrum Disorder: A Review," *Mehran University Research Journal of Engineering and Technology*. (In Press)
- s. M. I. Khattak, J. Ma, M. Shafi, and M. Saleem, "A Study of SAR in Human Head Due to Radio frequency Radiation from Personal Data Assistant Device with Hands-Free Kits," *Research Journal of Recent Sciences*, vol.4, no.1, 2015.
- t. M. A. Shah, I. A. Khan, and M. Shafi, "Role of Software Architect: A Pakistani Software Industry Perspective", *Research Journal of Recent Sciences*, vol. 3, no. 12, pp. 48-52, 2014.

- u. G. Aziz, I. Ahmed and M. Shafi, "Risk Induced k-min Search Algorithms : An Experimental Perspective" accepted in IEEE Conference on Emerging Technologies (ICET), 2015.
- v. W. Khan, M. Shafi, I. A. Khan, M. I. Khattak, and M. Saleem, "Tourist's Spots Popularity Measurement in Pakistan Through Mining Publically Available Social Media Data," Middle-East Journal of Scientific Research, vol. 16, pp. 1557-1565, 2013.
- w. F. Khan, M. I. Khattak, M. Shafi, M. Saleem, F. Khan, and N. Khan, "A Case Study of Variable Window Size in Linear Prediction Techniques," World Applied Sciences Journal, vol. 23, pp. 71-80, 2013.
- x. M. Shafi and P. W. H. Chung, "Face pose estimation from eyes and mouth," International Journal of Advanced Mechatronic Systems, vol. 2, pp. 132-138, 2010.
- y. L. U. Khan, M. I. Khattak, N. Khan, and M. Shafi, "Low Complexity MMSE Estimator for OFDM Systems over Slow Fading Rayleigh Channels," 5th IEEE International Conference on Computing, Communication, and Networking Technologies, China.
- z. L. U. Khan, M. I. Khattak, N. Khan, and M. Shafi, "A Joint Error Correction and ICI Cancellation Algorithm for OFDM Systems " 5th IEEE International Conference on Computing, Communication, and Networking Technologies, China.
- aa. J. M. Khan, K. Ghani, M. Shafi, "Comparative analysis of formal software cost estimation techniques in Pakistan software industry," IEEE Students Conference on Engineering and Technology, Pakistan, 2014, pp.28-32.
- bb. R. M. Shakeel, M. Shafi, K. Ghani, and B. Jehan, "Requirements Engineering Trends In Software Industry of Pakistan," IEEE Students Conference on Engineering and Technology, Pakistan, 2014, pp.63-68.
- cc. B. Jehan, K. Ghani, M. Shafi, J. M. Khan, "Assessment of Project Management practices in Pakistani software industry," , IEEE Students Conference on Engineering and Technology, Pakistan, 2014, pp.37-42.
- dd. M. I. Khattak, R. Edwards, and M. Shafi, "Characterization of on-body communication channel for vertical and horizontal polarization of center fed dipole at GSM frequency," in Region 10 Symposium, 2014 IEEE, 2014, pp. 315-318.
- ee. M. Shafi, M. I. Khattak, N. Khan, and M. Saleem, "Ground plane shape effects on around the body area network at 1.8 GHz and 2.45 GHz," in Region 10 Symposium, 2014 IEEE, 2014, pp. 426-429.
- ff. L. U. Khan, N. Khan, M. I. Khattak, and M. Shafi, "LS estimator: Performance analysis for block-type and comb-type channel estimation in OFDM system," in Applied Sciences and Technology (IBCAST), 2014 11th International Bhurban Conference on, 2014, pp. 420-424.
- gg. M. S. Khan, I. A. Khan, and M. Shafi, "Keyboard and Mouse Interaction Based Mood Measurement Using Artificial Neural Networks," in Robotics and Artificial Intelligence (ICRAI), 2012 International Conference on, 2012, pp. 130-134.
- hh. M. Shafi, F. Iqbal, and I. Ali, "Face pose estimation using distance transform and normalized cross-correlation," in Signal and Image Processing Applications (ICSIPA), 2011 IEEE International Conference on, 2011, pp. 186-191.

10. Recent professional development activities

- a. Attended a 4 weeks training on “Mobile Application Developed” in National University of Computer and Emerging Sciences Lahore Pakistan in December 2015, jointly organized by Pakistan Software Export Board (PSEB) and ICT R & D Fund
- b.
- c.
- d.
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