KHIZER MEHMOOD

Date of Birth: 24-02-1988
Nationality: Pakistani
Marital Status: Married
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Personal Information

Qualifications

❖ PhD in Electronic Engineering (**2022**)

  ➢ International Islamic University Islamabad
    • CGPA: **3.50**/4.00

❖ Master of Science in Electrical Engineering (**2013**)

  ➢ University of Engineering & Technology, Taxila

    • CGPA:**3.00**/4.00

❖ Bachelor of Science in Electronic Engineering (**2010**)

  ➢ International Islamic University Islamabad
    • CGPA: **3.25**/4.00   Percentage:**75.10**%

❖ HSSC Pre-Engineering (**2006**)

  ➢ FBISE Islamabad
    • Marks:**741**/1100   Percentage: **67.3** %

❖ SSC Science (**2004**)

  ➢ BISE Rawalpindi
    • Marks:**510**/850   Percentage: **60**%

Experience

❖ Working as **Assistant Professor** from **23-06-2023** to **present** in Department of Electrical and Computer Engineering, Faculty of Engineering & Technology, IIU Islamabad

❖ Worked as **Lecturer** from **17-3-2014** to **22-06-2023** in Department of Electrical and Computer Engineering, Faculty of Engineering & Technology, IIU Islamabad

❖ Worked as a **M.Sc. Full Time Scholar** from **15-08-2011 to 15-02-2013** in Electrical & Electronics Engineering Department, UET TAXILA.

Projects

❖ Visual Object Tracking using Spatio-Temporal Information (PhD. Thesis)

❖ Design and Implementation of Face Detection System (M.Sc. Thesis)
❖ Smart Home Automation and Security System (BSEE Final Year Project)

Research Publications

❖ **Mehmood, K**.; Chaudhary, N.I.; Cheema, K.M.; Khan, Z.A.; Raja, M.A.Z.; Milyani, A.H.; Alsulami, A. Design of Nonlinear Marine Predator Heuristics for Hammerstein Autoregressive Exogenous System Identification with Key-Term Separation. *Mathematics* **2023**, *11*, 2512.

❖ **Mehmood, K**.; Chaudhary, N.I.; Khan, Z.A.; Cheema, K.M.; Raja, M.A.Z. Variants of Chaotic Grey Wolf Heuristic for Robust Identification of Control Autoregressive Model. *Biomimetics* **2023**, *8*, 141.

❖ **Mehmood, K**.; Chaudhary, N.I.; Khan, Z.A.; Cheema, K.M.; Raja, M.A.Z.; Milyani, A.H.; Azhari, A.A. Nonlinear Hammerstein System Identification: A Novel Application of Marine Predator Optimization Using the Key Term Separation Technique. *Mathematics* **2022**, *10*, 4217.

❖ **Mehmood, K**.; Chaudhary, N.I.; Khan, Z.A.; Cheema, K.M.; Raja, M.A.Z.; Milyani, A.H.; Azhari, A.A. Dwarf Mongoose Optimization Metaheuristics for Autoregressive Exogenous Model Identification. *Mathematics* **2022**, *10*, 3821.

❖ **Mehmood, K.;** Chaudhary, N.I.; Khan, Z.A.; Raja, M.A.Z.; Cheema, K.M.; Milyani, A.H. Design of Aquila Optimization Heuristic for Identification of Control Autoregressive Systems. *Mathematics* 2022, *10*, 1749.

❖ **Mehmood, K.;** Jalil, A.; Ali, A.; Khan, B.; Murad, M.; Cheema, K.M.; Milyani, A.H. Spatio-Temporal Context, Correlation Filter and Measurement Estimation Collaboration Based Visual Object Tracking. *Sensors* **2021**, *21*, 2841.

❖ **Mehmood, K.;** Jalil, A.; Ali, A.; Khan, B.; Murad, M.; Khan, W.U.; He, Y. Context-Aware and Occlusion Handling Mechanism for Online Visual Object Tracking. *Electronics* **2021**, *10*, 43.

❖ **Mehmood, K.;** Ali, A.; Jalil, A.; Khan, B.; Cheema, K.M.; Murad, M.; Milyani, A.H. Efficient Online Object Tracking Scheme for Challenging Scenarios. *Sensors* **2021**, *24*, 8481.

❖ Khan, B.; Jalil, A.; Ali, A.; Alkhaledi, K.; **Mehmood, K.;** Cheema, K.M.; Murad, M.; Tariq, H.; El-Sherbeeny, A.M. Multiple Cues-Based Robust Visual Object Tracking Method. *Electronics* **2022**, *11*, 345.

❖ Murad, M., Jalil, A., Bilal, M., Ikram, S., Ali, A., Khan, B., and **Mehmood, K.** Radial Undersampling-Based Interpolation Scheme for Multislice CSMRI Reconstruction Techniques. *BioMed Research International*, vol. 2021, Article ID 6638588, 15 pages, 2021.

❖ Khan, Z.A., Raja, M.A.Z., Chaudhary, N.I., **Mehmood, K.**, He, Y. MISGD: Moving-Information-Based Stochastic Gradient Descent Paradigm for Personalized Fuzzy Recommender Systems. *Int. J. Fuzzy Syst.* **24,** 686–712 (2022).

❖ Khan, B., Ali, A., Jalil, A., **Mehmood, K.,** Murad, M. and Awan, H., 2020. AFAM-PEC: Adaptive Failure Avoidance Tracking Mechanism Using Prediction Estimation Collaboration. *IEEE Access*, 8, pp.149077-149092.

❖ Murad, M., Bilal, M., Jalil, A., Ali, A., **Mehmood, K.** and Khan, B., 2020.Efficient reconstruction technique for multi-slice CS-MRI using novel interpolation and 2D sampling scheme. *IEEE Access*, 8, pp.117452-117466

Courses Taught	
	❖ Power Electronics
	❖ Probability and Random Variables
	❖ Circuit Analysis-I
	❖ Circuit Analysis-II

	❖ Electronic Circuit Design-I
	❖ Electronic Circuit Design-II
Administrative Tasks	❖ Co In charge (Academic Affairs)
	❖ In charge (Courses Allocation Committee)
	❖ In charge (Student Affairs Committee)
	❖ Member (Departmental Board)
	❖ Member (Graduate Research Committee)
	❖ Member (Academic Advising Committee)
	❖ Member (Training FMs/ Synergy Team)
	❖ Member Predictive Intelligence & System Modelling (PRISM) research group
	❖ Member departmental Unfair means Committee (UMC)
	❖ Member Quality & Developmental Committees (Development and Field Training Unit) (CRC)
	❖ Worked in various administrative committees in conducting IIU and UET Entry Tests.
	❖ Worked in various administrative committees in IIU Open House Exhibition.
	❖ Worked in various administrative committees in IIU FETEX Exhibition.
	❖ Worked in various administrative committees in IIU Spectra Exhibition.
	❖ Worked in various administrative committees in IIU ICISE Conference.
Technical and Professional Skills	❖ Creative, Hardworking, Sincere, Self-starter and Dedicated
	❖ Communication in both English & Urdu
	❖ Digital Design Simulation & Synthesis in Verilog HDL (Quartus II, Xilinx ISE, Modelsim)
	❖ Mathematical modeling in MATLAB and Simulink
	❖ Document Editing in MS Office (Word, PowerPoint, Excel, Publisher)
References	❖ Available on Demand