

Dr. Muhammad Aamir

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Education

- PhD (2016): Electrical Engineering (Power Electronics, Control, and Power System) Faculty of Engineering, Department of Electrical Engineering, University of Malaya, Malaysia. Thesis title: Design of a non-isolated single phase online ups topology with parallel battery bank for low power applications”
- MS. (2011): Electrical Engineering (Electronics, Electrical, Control and Instrumentation Engineering), Hanyang University, South Korea. Thesis title: Non-isolated Single Phase Uninterruptible Power Supply (UPS) System

Experience

1: Teaching Experience:

- Feb 2020 to date working as Assistant professor in the Department of Electrical and Computer Engineering, PAF-IAST, Mang, Haripur, Khyber Pakhtunkhwa.
- Jan, 2017 to Jan 2020, worked as Assistant Professor in the Department of Electrical Engineering, Bahria University, Islamabad
- Sep, 2011 to Sep 2013, worked as a Lecturer in the Department of Electrical Engineering, COMSAT Institute of Information Technology, Abbottabad.

2: Research Supervision Experience:

- PhD Students: 2 (Currently Supervising)
- MS Students: 20

Projects & Awards

- **Startup Grant**, Higher Education Commission, **Non-isolated Inverter for Grid-Connected Photovoltaic System** (Amount 5,00,000 PKR)
- POSTGRADUATE RESEARCH GRANT (PPP), University of Malaya, Malaysia “Transformer-less Online uninterruptible power supply” (Amount 5,000 US\$)

Patent & Publications

22 International Publications in ISI indexed journals, impact factor of **60**, citations **719**, *h*-index **12**

- **Aamir, M**; Mekhilef, S; “Online Transformer-less Uninterruptible Power Supply (UPS) system with reduced battery bank for low power applications” *IEEE Transaction on Power Electronics*, vol. 32, no. 1, pp. 233-247, Jan. 2017 (**I.F: 6.03**)
- **M. Aamir**, S. Mekhilef, and K. Hee-Jun, “High-Gain Zero-Voltage Switching Bidirectional Converter with a Reduced Number of Switches,” *IEEE Transactions on Circuits and Systems II: Express Briefs*, vol. 62, no. 8, pp. 816-820, 2015. (**I.F: 1.2**)
- **Aamir, M**; Mekhilef, S; Ahmed.K, “Review: Uninterruptible Power Supply (UPS) System” *Renewable and sustainable energy: Reviews*, Volume 58, May 2016, Pages 1395–1410 (**I.F: 5.63**)
- **Aamir, M**; Mekhilef, S; Ahmed. K, “Proportional-Resonant and Slide Mode Control for Single Phase UPS Inverter,” *Electric Power Components and Systems*, volume 45, no.10 Taylor and Franscis. (**I.F: 0.6**)
- HS Khan, **M Aamir**, M Ali, “Finite Control Set Model Predictive Control for Parallel Connected Online UPS System under Unbalanced and Nonlinear Loads”, *Energies*, Vol. 12, No. (4), pp no. 581, 2019; (**I.F: 2.67**)
- M. Ali, **M Aamir**, HS Khan, A Waqar, F Haroon, AR Jafri, “Lyapunov Stability and Performance Analysis of the Fractional Order Sliding Mode Control for a Parallel Connected UPS System under Unbalanced and Nonlinear Load Conditions, *Energies* Vol. 11, issue 12, Pp. 3475, 2019. (**I.F: 2.676**)
- Umaid, **M.Aamir**, Asad.W, and A.JAffri, “Model Predictive Control (MPC) based distributed control algorithm for Bidirectional interlinking converter (BIC) in hybrid microgrids” *International Transactions on Electrical Energy Systems*, Wiley. 2021. (**I.F: 1.6**)