

Absaar UI Jabbar

Assistant Professor

School of Interdisciplinary Engineering & Sciences

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About

Dr. Absaar UI Jabbar is working as Assistant Professor in the School of Interdisciplinary Engineering & Sciences. Dr. Absaar UI Jabbar has a PhD in Computational Fluid Dynamics. Dr. Absaar UI Jabbar has published 11 research articles & conference papers having a citation count of 55, carried out 5 projects and filed 0 intellectual property.

Qualifications

PhD in Computational Fluid Dynamics Technical University of Dortmund , Germany	2011 - 2018
MSc in Computer Aided Engineering Design University of Strathclyde , United Kingdom	2006 - 2007
BE in Mechanical Engineering UET Lahore , Pakistan	1999 - 2002

Experience

Assistant Professor School of Interdisciplinary Engineering & Sciences	2022- Present
Assistant Professor Research Centre for Modelling & Simulation	2019 - 2022
Assistant Professor Research Centre for Modelling & Simulation	2011 - 2018
Assistant Professor Research Centre for Modelling & Simulation	2008 - 2011
Research Associate Technical University Dortmund, Germany , Vogelpothsweg 87, 44227 Dortmund, Germany	2011 - 2018
Assistant Professor University of Engineering and Technology, Lahore , UET, GT Road, Lahore	2008 - 2008
Mechanical Engineer Packages Limited , Shahrah-e-Roomi P.O. Amer-sidhu, Lahore-54760	2004 - 2005
Mechanical Engineer NESPAK , 1-C, Model Town Extension Block N Model Town, Lahore, Punjab 54000	2003 - 2004

Research Projects

National Projects

GenAI empowered smart agriculture for enhanced productivity in Pakistan Funding Agency: National University of Sciences and Technology Amount: PKR 1,000,000.00 Status: Approved_inprocess	2024
NUST Digital Twin through Advanced Modeling & Simulation Funding Agency: NUST Amount: PKR 50,000,000.00 Status: Approved_inprocess	2024
Machine learning based CFD for aerodynamic applications Funding Agency: NESCOM Amount: PKR 100,000.00 Status: Approved_inprocess	2023
Indoor Thermal Comfort, Air Quality and Energy Management of Selected Hospitals in Islamabad Capital Territory Funding Agency: NUST Amount: PKR 940,000.00 Status: Approved_inprocess	2022
Integrated Modeling of the Cure Process and the Damage Behavior of CFRP Composites Funding Agency: BRAIA, China Amount: PKR 1,230,000.00 Status: Completed	2021

International Projects

- Finite element modeling of piezoresistivity in graphene coated glass fiber reinforced polymer composites** 2025
Shahid Ahmad Absaar Ul Jabbar Yumna Qureshi Israr Ud Din
Computational Materials Science , Volume 258, Article Number 113976
Impact Factor: 3.300 | **Quartile:** 2
DOI: <https://doi.org/10.1016/j.commatsci.2025.113976>
- A comprehensive simulation study of integrated gasification, enrichment, and separation processes for biohydrogen production from sugarcane bagasse** 2025
Abeer Fawad Muhammad Abdul Qyyum Absaar Ul Jabbar
International Journal of Hydrogen Energy , Volume 137, Pages 905-916
Impact Factor: 8.1 | **Quartile:** 1 | **Citations:** 2
DOI: <https://doi.org/10.1016/j.ijhydene.2024.05.332>
- IGWO based robust nonlinear control design for androgen suppression therapy in prostate tumor patients** 2024
Atif Rehman Iftikhar Ahmad Absaar Ul Jabbar
Biomedical Signal Processing and Control , Volume 97, Article Number 106729
Impact Factor: 4.900 | **Quartile:** 1 | **Citations:** 8
DOI: <https://doi.org/10.1016/j.bspc.2024.106729>
- Barrier function based adaptive sliding mode controller for the hybrid energy storage system of plugin hybrid electric vehicles** 2023
Mubariz Ahmed Usman Masood Muhammad Kashif Azeem Iftikhar Ahmad Absaar Ul Jabbar
Journal of Energy Storage , Volume 72, Part B, Article Number 108051
Impact Factor: 9.4 | **Quartile:** 1 | **Citations:** 4
DOI: [10.1016/j.est.2023.108051](https://doi.org/10.1016/j.est.2023.108051)
- Robust adaptive nonlinear control of plugin hybrid electric vehicles for vehicle to grid and grid to vehicle power flow with hybrid energy storage system** 2023
Usman Masood Muhammad Kashif Azeem Iftikhar Ahmad Absaar Ul Jabbar
ISA Transactions , Volume 139, Pages 406-424
Impact Factor: 5.911 | **Quartile:** 1 | **Citations:** 19
DOI: <https://doi.org/10.1016/j.isatra.2023.03.035>
- Performance Evaluation of a Multi-Stage Gravitational Water Vortex Turbine with optimum number of Blades** 2022
Aamer Sharif Javed Ahmed Khan Tipu Muhammad Arif Muhammad Salman Abbasi Absaar Ul Jabbar Adnan Aslam Noon Muftooh Ur Rehman Siddiqi
Journal of Mechanical Engineering Research and Developments , Volume 45, No. 3, Pages 35-43
Impact Factor: N/A
DOI: [https://jmerd.net/Paper/Vol.45,No.3\(2022\)/35-43.pdf](https://jmerd.net/Paper/Vol.45,No.3(2022)/35-43.pdf)
- Performance Investigation of a Single-Stage Savanious Horizontal Water Turbine with Optimum Number of Blades** 2022
Irfan Ullah Muftooh Ur Rehman Siddiqi Muhammad Tahir Aamer Sharif Adnan Aslam Noon Javed Ahmed Khan Tipu Muhammad Arif Absaar Ul Jabbar Shahana Mujeeb Siddiqi Naveed Ullah Tufail Habib
Journal of Mechanical Engineering Research and Developments , Volume 45, No. 2, Pages 29-42
Impact Factor: N/A
DOI: [https://jmerd.net/Paper/Vol.45,No.2\(2022\)/29-42.pdf](https://jmerd.net/Paper/Vol.45,No.2(2022)/29-42.pdf)
- Performance Enhancement of Centrifugal Pump through Cavitation Reduction using Optimization Techniques** 2021
Adnan Aslam Noon Muhammad Arif Javed Ahmed Khan Tipu Absaar Ul Jabbar Muftooh Ur Rehman Siddiqi Aamer Sharif
International Journal of Thermofluid Science and Technology , Volume 8, Issue 4, Article Number 080404
Impact Factor: N/A
DOI: [10.36963/IJTST.2021080404](https://doi.org/10.36963/IJTST.2021080404)
- Strive to Reduce Slurry Erosion and Cavitation in Pumps through Flow Modifications, Design Optimization and Some Other Techniques: Long Term Impact on Process Industry** 2021
Adnan Aslam Noon Absaar Ul Jabbar Hasan Koten Man-Hoe Kim Hafiz Waqar Ahmed Umair Mueed Ahmad Adnan Shoukat Bilal Anwar
Materials , Volume 14, Issue 3, Article Number 521
Impact Factor: 3.748 | **Quartile:** 1 | **Citations:** 22
DOI: <https://doi.org/10.3390/ma14030521>

Conference Proceedings

Umerical Investigation of Sugarcane Bagasse as Potential Feedstock in Pakistan Forbiohydrogen Production through Gasification <i>Abeer Fawad Muhammad Abdul Qyyum Absaar UI Jabbar</i> <i>13th International Conference on Hydrogen Production, res.country(177,)</i> Citations: N/A DOI: Nil	2022
Comparative analysis of thermal comfort surveys with CFD simulations <i>Hassan Sařdar Malik Waqas Khalid Absaar UI Jabbar Adeel Waqas Ahmad Adnan Munir Jawad Aslam Hafiz Ali Haider Sehole</i> <i>11th Masters Conference: People and Buildings , res.country(231,)</i> Citations: N/A DOI: 10.5258/SOTON/P1086	2022

Editorial Activities

International Journal of Hydrogen Energy Reviewed Papers for Journals Impact Factor: 8.1	2024
International Journal of Hydrogen Energy Reviewed Papers for Journals Impact Factor: 8.1	2024
Biomedical Signal Processing and Control Reviewed Papers for Journals Impact Factor: 4.9	2024
SoftwareX Reviewed Papers for Journals Impact Factor: 3.4	2023
ISA Transactions Reviewed Papers for Journals Impact Factor: 5.911	2022
 Reviewed Papers for Journals Impact Factor: 4.008	2022