Zafar Abbas Bangash

Assistant Professor

College of Electrical & Mechanical Engineering

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Contact: 0512709347

LinkedIn:



2020

2017

2021

About

Dr. Zafar Abbas Bangash is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Zafar Abbas Bangash has a PhD in Mechanical Engineering. Dr. Zafar Abbas Bangash has published 14 research articles & conference papers having a citation count of 302, carried out 3 projects and filed 0 intellectual property.

Qualifications

2010 - 2015
2000 - 2003
1992 - 1995
2024- Present
2023 - 2023
2017 - 2023
2016 - 2016
2008 - 2010

Research Projects

National Projects

Development of Smart Irrigatoin System with Weather Forecast (PETRA)

Funding Agency: NCBC Amount: PKR 14,920,000.00

Status: Completed

FEA Based shock and vibration analysis of cabinets consoles onboard surface

Funding Agency: NESCOM Amount: PKR 100,000.00 Status: Completed

Design and Fabrication of ICU grade and Emergency Ventilator

Funding Agency: HEC TTSF Amount: PKR 11,733,960.00

Status: Completed

International Projects

Research Articles

Insight into the significance of relative humidity on Nusselt number of crossflow heat exchangers with staggered elliptic tubes	2022
Arshan Ahmed Atta ul Mannan Hashmi Fahad Rafi Butt Zafar Bangash Shahbaz Ghani Imran Akhtar Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, Pages 1-9 Impact Factor: 1.285 Quartile: 4	
DOI: https://doi.org/10.1177/09544100221135104	
Neural Network-Based Model Reduction of Hydrodynamics Forces on an Airfoil Hamayun Farooq Ahmad Saeed Imran Akhtar Zafar Bangash Fluids , Volume 6(9), Article Number 332	2021
Impact Factor: N/A Citations: 11 DOI: https://doi.org/10.3390/fluids6090332	
Machine Learning based Reduced-Order Modeling of Hydrodynamic Forces using Pressure Mode Decomposition	2021
Imran Akhtar Hassan F Ahmed Hamayun Farooq Zafar Abbas Bangash	
Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, Pages 1-12	
Impact Factor: 1.285 Quartile: 4 Citations: 8 DOI: https://doi.org/10.1177/0954410021999864	
Pressure Mode Decomposition Analysis of the Flow past a Cross-flow Oscillating Circular Cylinder	2021
Imran Akhtar Muhammad Sufyan Hamayun Farooq Zafar Abbas Bangash	
Journal of Mechanical Science and Technology, Volume 35(1), Pages 153–158	
Impact Factor: 1.810 Quartile: 3 Citations: 10 DOI: 10.1007/s12206-020-1214-0	
Multi-mode vortex and wake-induced vibrations of a flexible cylinder in tandem arrangement	2016
Francisco Huera-Huarte Zafar Abbas Bangash Leo Miguel Gonzalez	
Journal of Fluids and Structures, Volume 66, Pages 571-588	
Impact Factor: 2.021 Quartile: 2 Citations: 73	
DOI: 10.1016/j.jfluidstructs.2016.07.019	
On the flow around the node to anti-node transition of a flexible cylinder undergoing vortex-induced	2015
vibrations	
Zafar Abbas Bangash Francisco Huera-Huarte	
Physics of Fluids, Volume 27, Article Number 065112	
Impact Factor: 2.017 Quartile: 2 Citations: 10 DOI: 10.1063/1.4922816	
Towing Tank Experiments on the Vortex-Induced Vibrations of Low Mass Ratio Long Flexible Cylinders	2014
L.M. González F.J. Huera-Huarte Zafar Abbas Bangash	
Journal of Fluids and Structures, Volume 48, Pages 81-92	
Impact Factor: 2.021 Quartile: 1 Citations: 107	
DOI: 10.1016/j.jfluidstructs.2014.02.006	
Experimental Investigation of Axisymmetric Coaxial Synthetic Jets	2009
Zafar Abbas Bangash A. Ahmed	
Experimental Thermal and Fluid Sciences, Volume 33, Issue 8, Pages 1142-1148	
Impact Factor: 1.234 Quartile: 1 Citations: 15	
DOI: 10.1016/j.expthermflusci.2009.07.003	
Assessment of Continuous and Aerated Fabric Pressure-Washing	2007
G. Buschle-Diller A. Ahmed Y. Gowayed T. Turel R. Rifki Z. Bangash	
The Journal of The Textile Institute, Volume 98, Issue 4, Pages 319-326	
Impact Factor: 0	
DOI: 10.1080/00405000701502842	
Aerodynamics of Formation Flight	2006
Zafar A. Bangash R. P. Sanchez A. Ahmed M. J. Khan	
Journal of Aircraft, Volume 43, Issue 4, Pages 907-912	
Impact Factor: 0.456 Quartile: 3 Citations: 68	
DOI: 10.2514/1.13872	

Conference Proceedings

Deep learning-based reduced-order model for turbulent flows 2022 Ahmad Saeed Hamayun Farooq Imran Akhtar Zafar Bangash 2022 19th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,) Citations: N/A DOI: 10.1109/IBCAST54850.2022.9990530 Nusselt Number Dependence on Aspect Ratio and Rayleigh Number: A Numerical Study of Rayleigh-2022 **Benard Instability** Wajeeha Siddigui Zafar Bangash Imran Akhtar Muhammad Saif Ullah Khalid ASME 2022 Fluids Engineering Division Summer Meeting, FEDSM 2022, res.country(38,) Citations: N/A DOI: 10.1115/FEDSM2022-87897 Application of Data-Driven and Physics-Embedded Neural Networks in Wake Dominated Flows 2021 Col. Dr. Imran Akhtar Zafar Bangash Hassan Farooq Faraz Kaiser Malik 2021 International Bhurban Conference on Applied Sciences and Technologies (IBCAST), res.country(177,) Citations: N/A DOI: 10.1109/IBCAST51254.2021.9393218 Robust Principal Component Analysis of Vortex-induced Vibrations using Particle Image Velocimetry 2021 Measurements Dr. Zafar Abbas Bangash Col. Dr. Imran Akhtar Ahmed Saeed Hassan Farooq 2021 International Bhurban Conference on Applied Sciences and Technologies, res.country(177,) Citations: N/A DOI: 10.1109/IBCAST51254.2021.9393277 **Editorial Activities**

2021

Reviewed Papers for Journals

Impact Factor: 2.84