

Ali Javed

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About

Dr. Ali Javed is working as Defence Faculty in the College of Aeronautical Engineering. Dr. Ali Javed has a PhD in Aerospace. Dr. Ali Javed has published 28 research articles & conference papers having a citation count of 219, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Aerospace 2011 - 2015
Southampton Solent University , Pakistan

Experience

Defence Faculty 2023- Present
College of Aeronautical Engineering

Defence Faculty 2020 - 2020
College of Aeronautical Engineering

Defence Faculty 2015 - 2020
College of Aeronautical Engineering

- Present

Research Articles

A Lock-In thermography based post-processing scheme for the detection of sub-surface rivet-related defects in aircraft structures 2025
Haris Ali Khan Sharjeel Salik Butt Shahab Uddin Ali Javed Talha Ali Khan Zia Ul Islam
Mechanical Systems and Signal Processing, Volume 228, Article Number 112423
Impact Factor: 7.900 | Quartile: 1
DOI: <https://doi.org/10.1016/j.ymssp.2025.112423>

A new approach for spatio-temporal interface treatment in fluid–solid interaction using artificial neural networks employing coupled partitioned fluid–solid solvers 2024
Farrukh Mazhar Ali Javed
Journal of Fluids and Structures, Volume: 131, Article Numbe: 104200, Pages:27
Impact Factor: 3.4 | Quartile: 1
DOI: <https://doi.org/10.1016/j.jfluidstructs.2024.104200>

A novel artificial neural network-based interface coupling approach for partitioned fluid–structure interaction problems 2023
Ali Javed Farrukh Mazhar Atakan Altinkaynak
Engineering Analysis with Boundary Elements, Volume 151, Pages 287-308
Impact Factor: 3.250 | Quartile: 1 | Citations: 6
DOI: <https://doi.org/10.1016/j.enganabound.2023.02.022>

Design and optimization of bump (compression surface) for diverterless supersonic inlet 2022
Muhammad Irsalan Arif Hassan Iftikhar Ali Javed
Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, Volume 236, Issue 1, Pages 33-48
Impact Factor: 1.1 | Quartile: 4 | Citations: 8
DOI: <https://doi.org/10.1177/09544100211002970>

Aircraft Stability Characteristics in a Single Horizontal Tail Failure and Evaluation of Countermeasures for Safe Landing 2021

<p><i>Muhammad Irsalan Arif Talha Ansari Ali Javed</i> <i>Journal of Applied Fluid Mechanics</i>, Volume:14, Issue:3, Page:847-859</p> <p>Impact Factor: 1.152 Quartile: 4 Citations: 1 DOI: 10.47176/jafm.14.03.31974</p>	
<p>On the meshfree particle methods for fluid-structure interaction problems</p> <p><i>Farrukh Mazhar Ali Javed Jing Tang Xing Aamer Shahzad Mohtashim Mansoor Adnan Maqsood Syed Irteza Ali Shah Kamran Asim</i> <i>Engineering Analysis with Boundary Elements</i>, Volume 124, Pages 14-40</p> <p>Impact Factor: 3.250 Quartile: 1 Citations: 38 DOI: 10.1016/j.enganabound.2020.11.005</p>	2021
<p>A semi-analytical approach for flutter analysis of a high-aspect-ratio wing</p> <p><i>Muhammad Khizer Ali Khan Rana Fahad Latif Ali Javed Syed Irteza Ali Shah Syed Tauqeer Ul Islam Rizvi</i> <i>Aeronautical Journal</i>, Volume 125, Issue 1284, Pages 410-429</p> <p>Impact Factor: 1.222 Quartile: 4 Citations: 8 DOI: https://doi.org/10.1017/aer.2020.71</p>	2021
<p>Comprehensive design of an oleo-pneumatic nose landing gear strut</p> <p><i>Muhammad Ayaz Ahmad Syed Irteza Ali Shah Taimur Ali Shams Ali Javed Syed Tauqeer ul Islam Rizvi</i> <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i>, Pages 1-18</p> <p>Impact Factor: 1.056 Quartile: 4 Citations: 9 DOI: DOI: 10.1177/0954410020979378</p>	2020
<p>Failure analysis of a broken support strut of an aircraft landing gear</p> <p><i>Zahid Mehmood Zahid Mehmood Asad Hameed Taimur Ali Shams Ossama Zubair Ali Javed</i> <i>Engineering Failure Analysis</i>, Volume 117, Article Number 104847</p> <p>Impact Factor: 3.114 Quartile: 3 Citations: 21 DOI: https://doi.org/10.1016/j.engfailanal.2020.104847</p>	2020
<p>Experimental Investigation of Propeller Induced Flow on Flying Wing Micro Aerial Vehicle for Improved 6DOF Modeling</p> <p><i>Taimur Ali Shams Syed Irteza Ali Shah Aamer Shahzad Ali Javed Kashif Mehmood</i> <i>IEEE Access</i>, Volume 8, Pages 179626-179647</p> <p>Impact Factor: 3.367 Quartile: 2 Citations: 10 DOI: https://doi.org/10.1109/ACCESS.2020.3026005</p>	2020
<p>Airfoil Selection Procedure, Wind Tunnel Experimentation and Implementation of 6DOF Modeling on a Flying Wing Micro Aerial Vehicle</p> <p><i>Taimur Ali Shams Syed Irteza Ali Shah Ali Javed Syed Hossein Raza Hamdani</i> <i>Micromachines</i>, Volume 11(6), Article Number 553</p> <p>Impact Factor: 2.891 Quartile: 2 Citations: 15 DOI: 10.3390/mi11060553</p>	2020
<p>Analysis of premature failure of aircraft hydraulic pipes</p> <p><i>Zahid Mehmood Asad Hameed Ali Javed</i> <i>Engineering Failure Analysis</i>, Volume 109, Article Number 104356</p> <p>Impact Factor: 3.114 Quartile: 3 Citations: 37 DOI: https://doi.org/10.1016/j.engfailanal.2019.104356</p>	2020
<p>Upwind skewed radial basis functions (USRBF) for solution of highly convective problems over meshfree nodes</p> <p><i>Ali Javed Ali Asadullah Baig Kamal Djidjeli Aamer Shahzad Asad Hameed</i> <i>Engineering with Computers</i>, Pages 1–17</p> <p>Impact Factor: 3.938 Quartile: 1 Citations: 7 DOI: 10.1007/s00366-019-00873-3</p>	2019
<p>A stabilized RBF finite difference method for convection dominated flows over meshfree nodes</p> <p><i>Ali Javed Farrukh Mazhar Taimur Ali Shams Muhammad Ayaz Nadeem Hussain</i> <i>Engineering Analysis with Boundary Elements</i>, Volume 107, Pages 159-167</p> <p>Impact Factor: 2.884 Quartile: 1 Citations: 5 DOI: https://doi.org/10.1016/j.enganabound.2019.07.008</p>	2019
<p>Low Reynolds Number Effect on Energy Extraction Performance of Semi-Passive Flapping Foil</p> <p><i>Ali Javed Aamir Naveed Kamal Djidjeli Jing Tang Xing</i> <i>Journal of Applied Fluid Mechanics</i>, Volume 11, Issue 6, Pages 1613-1627</p>	2018

Impact Factor: 0.914 | **Quartile:** 4
DOI: 10.18869/acadpub.jafm.73.249.27852

A coupled meshfree-mesh-based solution scheme on hybrid grid for flow-induced vibrations

2015

Ali Javed Kamal Djidjeli Jing Tang Xing
Acta Mechanica , Volume 227, Issue 8, Pages 2245-2274

Impact Factor: 1.694 | **Quartile:** 2 | **Citations:** 9
DOI: 10.1007/s00707-016-1614-5

Shape adaptive RBF-FD implicit scheme for incompressible viscous Navier–Stokes equations

2014

Ali Javed Kamal Djidjeli Jing Tang Xing
Computers & Fluids , Volume 89, Pages 38-52

Impact Factor: 1.619 | **Quartile:** 2 | **Citations:** 28
DOI: 10.1016/j.compfluid.2013.10.028

- Sloshing Analysis of a Supersonic Fuel Tank of an Aircraft** 2021
Farrukh Iqbal Ali Javed Aamer Shahzad
International Conference on Applied and Engineering Mathematics (ICAEM), res.country(177,)
Citations: N/A
DOI: 10.1109/ICAEM53552.2021.9547090
- Computational analysis of low mass moment of inertia flying wing** 2021
Sara Khushbash Ali Taved Taimur Ali shams
18th International Bhurban Conference on Applied Sciences and Technologies, IBCAST, res.country(282,)
Citations: N/A
DOI: 10.1109/IBCAST51254.2021.9393181
- Drone selection using multi-criteria decision-making methods** 2021
Muhammad Sohaib Khan Syed Irteza Ali Shah Ali Javed Dr M Nafees Mumtaz Qadri Nadeem Hussain
2021 International Bhurban Conference on Applied Sciences and Technologies (IBCAST), res.country(177,)
Citations: N/A
DOI: 10.1109/IBCAST51254.2021.9393291
- A critical analysis of small but heavy-lift multicopter and their flight controllers** 2021
Muhammad Sohaib Khan Syed Irteza Ali Shah Ali Javed Dr M Nafees Mumtaz Qadri Nadeem Hussain
2021 International Bhurban Conference on Applied Sciences and Technologies (IBCAST), res.country(177,)
Citations: N/A
DOI: 10.1109/IBCAST51254.2021.9393264
- An overview of methods for investigation of aeroelastic response on high aspect ratio fixed-winged aircraft** 2020
Muhammad Khizer Ali Khan Ali Javed Muhammad Nafees Mumtaz Qadri Mohtashim Mansoor Farrukh Mazhar
3rd Pak-Turk International Conference ETSE2020, res.country(177,)
Citations: N/A
DOI: <https://iopscience.iop.org/article/10.1088/1757-899X/899/1/012002/meta#references>
- Weak-form Based Meshfree Methods Element Free Galerkin Method (EFG) - An Overview** 2020
Farrukh Mazhar Ali Javed
17th International Bhurban Conference on Applied Sciences and Technology (IBCAST), 2020, res.country(177,)
Citations: N/A
DOI: 10.1109/IBCAST47879.2020.9044586
- Semi-Analytical Flutter Analysis of a Light UAV Wing** 2020
Rana Fahad Latif Syed Tauqueer-ul-Islam Rizvi Ali Javed Syed Irtiza Ali Shah
2020 17th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,)
Citations: N/A
DOI: 10.1109/IBCAST47879.2020.9044521
- Design Optimization of a Semi-Active Flapping Foil in an Energy Extraction Mode** 2019
Muhammad Jamil Ali Javed Muhammad Jamil Ali Javed
International Conference on Engineering and Emerging Technologies (ICEET), res.country(177,)
Citations: N/A
DOI: DOI: 10.1109/CEET1.2019.8711855
- Static structural and modal analysis of Micro Air Vehicle flapping wing with varying stiffness structures** 2019
Rizwan Yousaf Ali Javed Aamer Shahzad
2019 16th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,)
Citations: N/A
DOI: 10.1109/IBCAST.2019.8667150
- Comparative Study of Heat Flux Instrumentation for Hypersonic Ground Test Facilities** 2018
Taimur Ali Shams Syed Irtiza Ali Shah Muhammad Ayaz Ahmad Ali Javed
2018 IEEE 21st International Multi-Topic Conference (INMIC), res.country(177,)
Citations: N/A
DOI: 10.1109/INMIC.2018.8595699