

Hasan Aftab Saeed

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About

Dr. Hasan Aftab Saeed is working as Associate Professor in the College of Electrical & Mechanical Engineering. Dr. Hasan Aftab Saeed has a PhD in Mechanical Engineering. Dr. Hasan Aftab Saeed has published 36 research articles & conference papers having a citation count of 72, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Mechanical Engineering The University of Tokyo , Japan	2007 - 2011
MSc in Mechanical Engineering The University of Tokyo , Japan	2005 - 2007
BSc in Mechanical Engineering UET Lahore , Pakistan	1993 - 1998

Experience

Associate Professor College of Electrical & Mechanical Engineering	2025- Present
Assistant Professor College of Electrical & Mechanical Engineering	2016 - 2016
Assistant Professor College of Electrical & Mechanical Engineering	2011 - 2016
Design Engineer Ideya Company Ltd. , Minami Chuo, Haze, Kizigawadai-shi, Japan	1999 - 2004

Research Projects

National Projects

Development of zero-backlash servo actuator
Funding Agency: NESCOM
Amount: PKR 100,000.00
Status: Completed

Design of universal joint for heavy duty loads
Funding Agency: NESCOM
Amount: PKR 100,000.00
Status: Completed

International Projects

Research Articles

Ballistic performance of lightweight ceramic-metal composite armour plates under blunt projectile impact <i>Hasan Aftab Saeed Yasser Riaz Awan Hamza saleem Khan Abdur Rehman Mazhar Shahid Aziz Dong-Won Jung Composites Part C: Open Access</i> , Volume: 16, Article Number: 100558 Impact Factor: 5.3 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1016/j.jcomc.2025.100558	2025
Residual Stress in Friction Stir Welding of Dissimilar Aluminum Alloys: A Parametric Study	2025

<p><i>Zulqarnain Sarfaraz Yasser Riaz Awan Hasan Aftab Saeed Muhammad Rehan Khan Michał Wieczorowski Naveed Akmal Din Materials</i> , Volume: 18, Issue: 2, Article Number: 316, Pages:15</p> <p>Impact Factor: 3.1 Quartile: 1 Citations: 2</p> <p>DOI: https://doi.org/10.3390/ma18020316</p>	
<p>Machine learning approach for predicting key design parameters in UAV conceptual design</p> <p><i>Omer Iqbal Bajwa Haroon Awais Baluch Hasan Aftab Saeed</i></p> <p><i>Ain Shams Engineering Journal</i>, Volume 15, Issue 9, Article Number 102932</p> <p>Impact Factor: 6.000 Quartile: 1 Citations: 2</p> <p>DOI: https://doi.org/10.1016/j.asej.2024.102932</p>	2024
<p>Effect of out-of-plane dimension on simplified geometric models in stress analysis</p> <p><i>Hasan Aftab Saeed Yasser Riaz Awan Sha Waiz Rehan Ahmed Khan</i></p> <p><i>Engineering Research Express</i> , Volume 5, Number 4, Article Number 045084</p> <p>Impact Factor: 1.500 Quartile: 2 Citations: 1</p> <p>DOI: 10.1088/2631-8695/ad11a8</p>	2023
<p>Printing Parameter Optimization of Additive Manufactured PLA Using Taguchi Design of Experiment</p> <p><i>Bilal Anjum Ahmed Uzair Nadeem Abbas Saeed Hakeem Anwar Ul-Hamid Mohd Yusuf Khan Muhammad Younas Hasan Aftab Saeed</i></p> <p><i>Polymers</i> , Volume 15(22), Article Number 4370</p> <p>Impact Factor: 5.0 Quartile: 1 Citations: 5</p> <p>DOI: https://doi.org/10.3390/polym15224370</p>	2023
<p>Impact of multiple infill strategy on the structural strength of single build FDM printed parts</p> <p><i>Ramisha Sajjad Sajid Ullah Butt Hasan Aftab Saeed Muhammad Tuoqeer Anwar Tahir Rasheed</i></p> <p><i>Journal of Manufacturing Processes</i> , Volume 89, Pages 105-110</p> <p>Impact Factor: 6.2 Quartile: 2 Citations: 23</p> <p>DOI: https://doi.org/10.1016/j.jmapro.2023.01.065</p>	2023
<p>Investigation of the Impact Resistance Behavior of Customized Hair Clipper Comb Fabricated by Fused Deposition Modeling</p> <p><i>Uzair Ali Hasan Aftab Saeed Bilal Anjum Sajid Ullah Butt Muhammad Rehan Khan</i></p> <p><i>Sustainability</i> , Volume 14(13), Article Number 8071</p> <p>Impact Factor: 3.889 Quartile: 2 Citations: 1</p> <p>DOI: https://doi.org/10.3390/su14138071</p>	2022
<p>Multi-Objective Welding-Parameter Optimization Using Overlaid Contour Plots and the Butterfly Optimization Algorithm</p> <p><i>Rehan Waheed Hasan Aftab Saeed Bilal Anjum</i></p> <p><i>Materials</i> , Volume 15, Issue 13, Article Number 4507</p> <p>Impact Factor: 3.748 Quartile: 1 Citations: 5</p> <p>DOI: doi.org/10.3390/ma15134507</p>	2022
<p>Numerical Simulation of Orthogonal Machining of Gallium Nitride via Smoothed Particle Hydrodynamics</p> <p><i>Hasan Aftab Saeed Imran Sajid S. Ghumman Muhammad Haseeb</i></p> <p><i>NUML International Journal of Engineering & Computing</i>, Volume 01, No. 01, Pages 27-38</p> <p>Impact Factor: 0</p> <p>DOI: https://nijec.numl.edu.pk/index.php/nijec/article/view/11</p>	2022
<p>Development and Characterization of Silver-Doped Multi-Walled Carbon Nanotube Membranes for Water Purification Applications</p> <p><i>Muhammad Umar Amjad Bilal Anjum Ahmed Faisal Ahmed Hasan Aftab Saeed</i></p> <p><i>Membranes</i> , Volume 12(2), Article Number 179</p> <p>Impact Factor: 4.106 Quartile: 1 Citations: 4</p> <p>DOI: https://doi.org/10.3390/membranes12020179</p>	2022
<p>Spark Plasma Sintering of SiAlON Ceramics Synthesized via Various Cations Charge Stabilizers and Their Effect on Thermal and Mechanical Characteristics</p> <p><i>Muhammad Zulqarnain Falak Bilal Anjum Ahmed Hasan Aftab Saeed Sajid Ullah Butt Abbas Saeed Hakeem Usman Ali Akbar</i></p> <p><i>Crystals</i> , Volume 11(11), Pages 1378</p> <p>Impact Factor: 2.589 Quartile: 2 Citations: 7</p> <p>DOI: https://doi.org/10.3390/cryst11111378</p>	2021

Framework for Mitigation of Welding Induced Distortion through Response Surface Method and Reinforcement Learning <i>Rehan Waheed Hasan Aftab Saeed Sajid Ullah Butt Bilal Anjum</i> <i>Coatings</i> , Volume 11(10), Article Number 1227 Impact Factor: 2.881 Quartile: 2 Citations: 4 DOI: doi.org/10.3390/coatings11101227	2021
Locator Placement Optimization for Minimum Part Positioning Error During Machining Operation Using Genetic Algorithm <i>Sajid Ullah Butt Mamoon Arshad Aamer Ahmed Baqai Hasan Aftab Saeed Naveed Akmal Din Rehan Ahmed Khan</i> <i>International Journal of Precision Engineering and Manufacturing</i> , Volume 22(5), Pages 813-829 Impact Factor: 2.041 Quartile: 3 Citations: 9 DOI: https://doi.org/10.1007/s12541-021-00500-6	2021
Effect of Ni3Al Coating on Vibration Suppression of Beams of Various Thicknesses <i>Hasan Aftab Saeed Shoaib Nadeem Imran Aziz Khalid Mahmood</i> <i>Key Engineering Materials</i> , Volume 875, Pages 294-301 Impact Factor: N/A DOI: https://doi.org/10.4028/www.scientific.net/KEM.875.294	2021
Material Handling Cost Consideration in Process Plan Selection for Reconfigurable Manufacturing System <i>Syeda Naela Fatima Hasan Aftab Saeed Sajid Ullah Butt Aamer Baqai</i> <i>Journal of Engineering and Applied Sciences</i> , Volume 38, Issue 1, Pages 1-14 Impact Factor: 0 DOI: 10.25211/jeas.v38i1.2302	2019
Investigating the Impacts of Heterogeneous Infills on Structural Strength of 3D Printed Parts <i>Ramisha Sajjad Sajid Ullah Butt Khalid Mahmood Hasan Aftab Saeed</i> <i>Key Engineering Materials</i> , Volume 799, Pages 276-281 Impact Factor: 0 Citations: 4 DOI: https://doi.org/10.4028/www.scientific.net/KEM.799.276	2019
A study on finite element of pre damaged stress concentration factor for a composite laminate member with central circular <i>T. Ahmed R S Chaudhry Atta Ur Rehman Shah Hasan Aftab Saeed</i> <i>Journal of Mechanical Science and Technology</i> , Volume: 32 Issue: 8 Pages: 3653-3658 Impact Factor: 1.221 Quartile: 3 Citations: 3 DOI: 10.1007/s12206-018-0717-4	2018
Development of New Metallic Gasket and its Optimum Design for Leakage Performance <i>Hasan Aftab Saeed Satoshi Izumi Shinsuke Sakai Shigeyuki Haruyama Masato Nagawa Hideki Noda</i> <i>Journal of Solid Mechanics and Materials Engineering</i> , Volume 2, Issue 1, Pages 105-114 Impact Factor: 0 DOI: https://doi.org/10.1299/jmmp.2.105	2008

Conference Proceedings

Friction Stir Welding of Dissimilar Aluminum Alloys: Process Parameters and Joint Characterization <i>Muhammad Shadeen Raja Muhammad Haris Yazdani Rana Talal Ahmad Khan Muhammad Haris Riaz Yasser Riaz Awan Hasan Aftab Saeed</i> <i>4th International Conference on Digital Futures and Transformative Technologies (ICoDT2) 2024</i> , res.country(177,) Citations: N/A DOI: 10.1109/ICoDT262145.2024.10740185	2024
Machine Learning Techniques for Predicting UAV Design Parameters: Overview, Methodology and Potential Benefits <i>Omer Iqbal Bajwa Haroon Awais Baluch Hasan Aftab Saeed</i> <i>19th International Bhurban Conference on Applied Sciences and Technology, IBCAST 2022</i> , res.country(177,) Citations: N/A DOI: 10.1109/IBCAST54850.2022.9990254	2022
The Effect of Residual Stress in Welding Stainless Steel Bent Sections <i>Rehan Waheed Hasan Aftab Saeed Bilal Anjum Ahmed Sajid Ullah Butt Zahid Faraz</i> <i>19th International Bhurban Conference on Applied Sciences and Technology, IBCAST 2022</i> , res.country(177,) 	2022

Citations: N/A DOI: 10.1109/IBCAST54850.2022.9990077	
Optimization of Al-Cu Friction Stir Welding Parameters Through RSM and BOA <i>Rehan Waheed Hasan Aftab Saeed Bilal Anjum Ahmed Sajid Ullah Butt Zahid Faraz</i> <i>19th International Bhurban Conference on Applied Sciences and Technology, IBCAST 2022</i> , res.country(177,)	2022
Citations: N/A DOI: 10.1109/IBCAST54850.2022.9990506	
The Effect of Physical Properties on Welding Induced Distortion in Dissimilar Steel Lap Joint <i>Rehan Waheed Hasan Aftab Saeed sajid ullah butt Zahid Faraz</i> <i>2021 International Bhurban Conference on Applied Sciences and Technologies (IBCAST)</i> , res.country(177,)	2021
Citations: N/A DOI: 10.1109/IBCAST51254.2021.9393165	
Process Optimization of Bending SS 304L Sheets using Multi-Objective Genetic Algorithm and FEA <i>Rehan Waheed Hasan Aftab Saeed sajid ullah butt Zahid Faraz</i> <i>2021 International Bhurban Conference on Applied Sciences and Technologies (IBCAST)</i> , res.country(177,)	2021
Citations: N/A DOI: 10.1109/IBCAST51254.2021.9393207	
Automatic Spot Welding Feature Recognition From STEP Data <i>Hasan Aftab Saeed Muhammad Ali Kiani Hasan Aftab Saeed Muhammad Ali Kiani</i> <i>International Symposium on Recent Advances in Electrical Engineering</i> , res.country(177,)	2020
Citations: N/A DOI: 10.1109/RAEE.2019.8886989	
Evaluation of Crashworthiness Parameters of Metallic Tubes with Multiple Inner Step Tubes Arrangements <i>Ammara Mustafa Hasan Aftab Saeed</i> <i>2019 16th International Bhurban Conference on Applied Sciences and Technology (IBCAST)</i> , res.country(177,)	2019
Citations: N/A DOI: 10.1109/IBCAST.2019.8667216	
A new approach to predict the flexibility and precision of manufacturing systems using geometric constraints and small displacement torsors <i>Hana Amin Khan Sajid Ullah Butt Aamer Ahmed Baqai Hasan Aftab Saeed</i> <i>28th International Conference on Flexible Automation and Intelligent Manufacturing (FAIM 2018)</i> , res.country(233,)	2018
Citations: N/A DOI: 10.1016/j.promfg.2018.10.049	
Numerical simulation of delamination under mixed mode loading of woven fabric reinforced composites through cohesive zone elements <i>Jawadullah Rizwan Saeed Choudhry Hasan Aftab Saeed</i> <i>Fifth International Conference on Aerospace Science & Engineering (ICASE)</i> , res.country(177,)	2017
Citations: N/A DOI: 10.1109/ICASE.2017.8374259	
In-plane dynamic crushing behavior and energy absorption of metallic honeycomb core with unique combination of two regular hexagonal cells and their arrangements <i>Ammara Mustafa Naeem Zafar Hasan Aftab Saeed Ammara Mustafa Naeem Zafar Hasan Aftab Saeed</i> <i>10th Ankara International Aerospace Conference</i> , res.country(224,)	2017
Citations: N/A DOI: ISBN-978-975-429-393-7	
An integrated experimental and computational approach to material selection for soundproof thermally insulated enclosure of a power generation system <i>Rehan Waheed W Tarar Hasan Aftab Saeed</i> <i>14th International Symposium on Advanced Materials (ISAM 2015)</i> , res.country(177,)	2015
Citations: N/A DOI: 10.1088/1757-899X/146/1/012045	
Development of material model for assessment of brittle cracking behavior of plexiglas <i>A J Khan N Iqbal Hasan Aftab Saeed W A Tarar</i> <i>14th International Symposium on Advanced Materials (ISAM 2015)</i> , res.country(177,)	2015

Citations: N/A

DOI: 10.1088/1757-899X/146/1/012008

Design of spiked hemispherical body in hypersonic flow

2015

Muhammad Ajmal Naveed Durrani Hasan Aftab Saeed

2015 12th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,)

Citations: N/A

DOI: 10.1109/IBCAST.2015.7058542

Optimization of wing-store position against flutter speed

2013

O I Bajwa H A Baluch Hasan Aftab Saeed A Munir

IFASD 2013 - International Forum on Aeroelasticity and Structural Dynamics, res.country(231,)

Citations: N/A

DOI: https://www.researchgate.net/publication/287038687_Optimization_of_wing-store_position_against_flutter_speed

Reaction Pathway Analysis of Homogeneous Dislocation Nucleation in a Perfect Molybdenum Crystal

2011

Hasan Aftab Saeed Satoshi Izumi Shotaro Hara Shinsuke Sakai

2010 Materials Research Society Fall Meeting, res.country(233,)

Citations: N/A

DOI: 10.1557/opl.2011.529

Transition Pathway Analysis of Homogeneous Dislocation Nucleation in a Perfect Silicon Crystal

2009

Hasan Aftab Saeed Satoshi Izumi Shotaro Hara Shinsuke Sakai

2009 Materials Research Society Fall Meeting, res.country(233,)

Citations: N/A

DOI: 10.1557/PROC-1224-FF05-14

Robust design methodology for sealing performance of gaskets

2008

Hasan Aftab Saeed Satoshi Izumi Shinsuke Sakai Shigeyuki Haruyama Masato Nagawa Hideki Noda

International Conference on Computational & Experimental Engineering and Sciences 2008, res.country(233,)

Citations: N/A

DOI: 10.3970/icces.2008.005.021