Jae Woo Lee

List of Publications by Year
in descending order

75 papers	665 citations	687363 13 h-index	642732 23 g-index
75 all docs	75 docs citations	75 times ranked	475 citing authors

#	Article	IF	Citations
1	Comprehensive preliminary sizing/resizing method for a fixed wing â€" VTOL electric UAV. Aerospace Science and Technology, 2017, 71, 30-41.	4.8	64
2	Multidisciplinary Unmanned Combat Air Vehicle system design using Multi-Fidelity Model. Aerospace Science and Technology, 2013, 26, 200-210.	4.8	48
3	Development of Web services-based Multidisciplinary Design Optimization framework. Advances in Engineering Software, 2009, 40, 176-183.	3.8	43
4	Improving variable-fidelity modelling by exploring global design space and radial basis function networks for aerofoil design. Engineering Optimization, 2015, 47, 885-908.	2.6	42
5	Aerodynamic design optimization of helicopter rotor blades including airfoil shape for hover performance. Chinese Journal of Aeronautics, 2013, 26, 1-8.	5.3	40
6	Comprehensive aircraft configuration design tool for Integrated Product and Process Development. Advances in Engineering Software, 2011, 42, 35-49.	3.8	29
7	A new accurate curvature matching and optimal tool based five-axis machining algorithm. Journal of Mechanical Science and Technology, 2009, 23, 2624-2634.	1.5	25
8	A modified variable complexity modeling for efficient multidisciplinary aircraft conceptual design. Optimization and Engineering, 2015, 16, 483-505.	2.4	23
9	Tool path generation for free form surfaces using BÃ©zier curves/surfaces. Computers and Industrial Engineering, 2007, 52, 486-501.	6.3	20
10	Uncertainty-based MDO for aircraft conceptual design. Aircraft Engineering and Aerospace Technology, 2015, 87, 345-356.	0.8	20
11	Dependability and Security Quantification of an Internet of Medical Things Infrastructure Based on Cloud-Fog-Edge Continuum for Healthcare Monitoring Using Hierarchical Models. IEEE Internet of Things Journal, 2021, 8, 15704-15748.	8.7	19
12	New integrated model to estimate the manufacturing cost and production system performance at the conceptual design stage of helicopter blade assembly. International Journal of Production Research, 2012, 50, 7210-7228.	7.5	17
13	Advanced Sizing Methodology for a Multi-Mode eVTOL UAV Powered by a Hydrogen Fuel Cell and Battery. Aerospace, 2022, 9, 71.	2.2	17
14	Preliminary Design of the Hybrid Air-launching Rocket for Nanosat. , 2007, , .		16
15	Performance Evaluation of an Internet of Healthcare Things for Medical Monitoring Using M/M/c/K Queuing Models. IEEE Access, 2021, 9, 55271-55283.	4.2	15
16	Adaptive Multifidelity Constraints Method for Efficient Multidisciplinary Missile Design Framework. Journal of Spacecraft and Rockets, 2016, 53, 184-194.	1.9	14
17	iADA*: Improved Anytime Path Planning and Replanning Algorithm for Autonomous Vehicle. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 100, 1005-1013.	3.4	13
18	Performability Evaluation of Load Balancing and Fail-over Strategies for Medical Information Systems with Edge/Fog Computing Using Stochastic Reward Nets. Sensors, 2021, 21, 6253.	3.8	13

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19	Transient analysis of hybrid rocket combustion by the zeldovich-novozhilov method. Journal of Mechanical Science and Technology, 2003, 17, 1572-1582.	0.4	10
20	Derating design for optimizing reliability and cost with an application to liquid rocket engines. Reliability Engineering and System Safety, 2016, 146, 13-20.	8.9	10
21	Optimal Design of High Temperature Vacuum Furnace Using Thermal Analysis Database. Transactions of the Korean Society of Mechanical Engineers, B, 2006, 30, 594-601.	0.1	10
22	Efficient multi-response adaptive sampling algorithm for construction of variable-fidelity aerodynamic tables. Chinese Journal of Aeronautics, 2019, 32, 547-558.	5.3	9
23	Optimal design for hybrid rocket engine for air launch vehicle. Journal of Mechanical Science and Technology, 2008, 22, 1576-1585.	1.5	8
24	Optimal air-launching rocket design using system trades and a multi-disciplinary optimization approach. Aerospace Science and Technology, 2009, 13, 406-414.	4.8	8
25	Experimental and Numerical Study of Air Entrainment Between Web and Spirally Grooved Roller. Journal of Tribology, 2009, 131, .	1.9	8
26	A distributed Web-based framework for helicopter rotor blade design. Advances in Engineering Software, 2012, 53, 14-22.	3.8	8
27	A fully automated framework for helicopter rotor blades design and analysis including aerodynamics, structure, and manufacturing. Chinese Journal of Aeronautics, 2016, 29, 1602-1617.	5.3	7
28	Surveillance System in Smart Cities: A Dependability Evaluation Based on Stochastic Models. Electronics (Switzerland), 2021, 10, 876.	3.1	7
29	IoT Sensor Networks in Smart Buildings: A Performance Assessment Using Queuing Models. Sensors, 2021, 21, 5660.	3.8	7
30	Investigations on stability and control characteristics of a CS-VLA certified aircraft using wind tunnel test data. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 2728-2743.	1.3	6
31	Holding Area Conceptual Design and Validation for Various Urban Air Mobility (UAM) Operations: A Case Study in Seoulâ€"GyungIn Area. Applied Sciences (Switzerland), 2021, 11, 10707.	2.5	6
32	Performability evaluation of switch-over Moving Target Defence mechanisms in a Software Defined Networking using stochastic reward nets. Journal of Network and Computer Applications, 2022, 199, 103267.	9.1	6
33	Role of Radiation on Dynamic Extinction by Depressurization in Metalized Solid Propellants. Journal of Propulsion and Power, 2004, 20, 432-439.	2.2	5
34	Dye Visualization of the Vortical Flow Structure over a Double-Delta Wing. Journal of Aerospace Engineering, 2012, 25, 541-546.	1.4	5
35	Investigations on Missile Configuration Aerodynamic Characteristics for Design Optimization. Transactions of the Japan Society for Aeronautical and Space Sciences, 2014, 57, 210-218.	0.7	5
36	Mission and Trajectory Optimization of the Air-Launching Rocket System Using MDO Techniques. , 2002, , .		4

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37	Optimal Design of an Energy Efficient Vacuum Furnace Using Thermal Analysis Database. Key Engineering Materials, 2005, 277-279, 732-740.	0.4	4
38	A Logical approach for Evaluating Preliminary Shape Design of a Very Light Jet. , 2008, , .		4
39	Enhanced multi-fidelity model for flight simulation using global exploration and the Kriging method. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2017, 231, 606-620.	1.3	4
40	Rotor Design for the Performance Optimization of Canard Rotor/Wing Aircraft. Lecture Notes in Computer Science, 2006, , 932-941.	1.3	4
41	Model-Driven Impact Quantification of Energy Resource Redundancy and Server Rejuvenation on the Dependability of Medical Sensor Networks in Smart Hospitals. Sensors, 2022, 22, 1595.	3.8	4
42	Multidisciplinary Design Approach Using Repetitive Response Surface Enhancement and Global Optimization. , 2008, , .		3
43	Efficient approach to database integration for an aerospace vehicle design and certification framework. Advances in Engineering Software, 2018, 118, 27-34.	3.8	3
44	Offloading Data through Unmanned Aerial Vehicles: A Dependability Evaluation. Electronics (Switzerland), 2021, 10, 1916.	3.1	3
45	Performance Evaluation of Message Routing Strategies in the Internet of Robotic Things Using the D/M/c/K/FCFS Queuing Network. Electronics (Switzerland), 2021, 10, 2626.	3.1	3
46	Flight Routes Establishment Through the Operational Concept Analysis of Urban Air Mobility System. Journal of the Korean Society for Aeronautical & Space Sciences, 2020, 48, 1021-1031.	0.1	3
47	Estimation and Separation of Longitudinal Dynamic Stability Derivatives with Forced Oscillation Method Using Computational Fluid Dynamics. Aerospace, 2021, 8, 354.	2.2	3
48	Mixture Optimization of Superdetonative Ram Accelerator Using Refined Response Surface Method. Journal of Propulsion and Power, 2005, 21, 1136-1139.	2.2	2
49	Stochastic Model Driven Performance and Availability Planning for a Mobile Edge Computing System. Applied Sciences (Switzerland), 2021, 11, 4088.	2.5	2
50	Optimal Space Launcher Design Using a Refined Response Surface Method. Lecture Notes in Computer Science, 2005, , 1081-1091.	1.3	2
51	Aircraft configuration selection method using the airworthiness certification and the decision making process. Journal of the Korean Society for Aeronautical & Space Sciences, 2010, 38, 467-476.	0.1	2
52	New Three-Dimensional Inverse Method for High-Speed Vehicle Design. Journal of Spacecraft and Rockets, 1998, 35, 473-479.	1.9	1
53	Inverse Solution Uniqueness and Domain of Existence for Space-Marching Applications. AIAA Journal, 2000, 38, 44-49.	2.6	1
54	Performance optimization of the hypervelocity launcher system based on experimental results. , 2002, , .		1

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55	Performance optimization of hypervelocity launcher system using experimental data. Journal of Mechanical Science and Technology, 2004, 18, 1829-1836.	0.4	1
56	Development of Integrated Missile System Design Framework Using Distributed Computing Environment. , 2007, , .		1
57	Advanced configuration generation technique for the complex aircraft geometry. , 2008, , .		1
58	A Systematic Approach for Quantitative Analysis of Multidisciplinary Design Optimization Framework. Transactions of the Japan Society for Aeronautical and Space Sciences, 2010, 52, 246-254.	0.7	1
59	Performance Prediction of Large Scale Vacuum Furnace Using Thermal Analysis. , 2010, , .		1
60	Aircraft Design Optimization Process using a Decision Model by Database. Transactions of the Japan Society for Aeronautical and Space Sciences, 2015, 58, 30-38.	0.7	1
61	Unmanned aerial vehicle derivative design optimization based on light sport aircraft. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2017, 231, 485-496.	1.3	1
62	Optimal Design of an Energy Efficient Vacuum Furnace Using Thermal Analysis Database. Key Engineering Materials, 0, , 732-740.	0.4	1
63	FSI(Fluid-Structure Interaction) Analysis for Harmonious Operation of High-Speed Printing Machine. International Journal of Aeronautical and Space Sciences, 2008, 9, 137-146.	2.0	1
64	Response of radiation driven transient burning of AP and HMX using flame modeling. Journal of Mechanical Science and Technology, 2001, 15, 1181-1187.	0.4	0
65	Aerodynamic Analysis on the Supersonic Separation of Air-Launching Rocker from the Mother Plane. Lecture Notes in Computer Science, 2006, , 457-466.	1.3	0
66	Development of a Database for Integrated Missile System Design in Web Services-based MDO Framework. , 2007, , .		0
67	The repetitive optimization design strategy using neural network and hybrid algorithm. , 2008, , .		0
68	Development of Repetitively Enhanced Neural Networks (RENN) for Efficient Missile Design and Optimization. , 2010, , .		0
69	Robust Optimization of Transonic Airfoil for Generic Fighter Aircraft using Global Variable Fidelity Modeling. , 2016, , .		0
70	Enhancement of light aircraft 6 DOF simulation using flight test data in longitudinal motion. Aeronautical Journal, 0, , 1-22.	1.6	0
71	Optimal Supersonic Air-Launching Rocket Design Using Multidisciplinary System Optimization Approach. Lecture Notes in Computer Science, 2005, , 1108-1112.	1.3	0
72	Development of Integrated Framework for the High Temperature Furnace Design. Lecture Notes in Computer Science, 2006, , 264-271.	1.3	0

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73	Development of Airworthiness Database System with Validation Process for Design Programs of General Aviation Aircraft. International Journal of Aeronautical and Space Sciences, 2012, 13, 435-445.	2.0	0
74	Aircraft derivative design optimization considering global sensitivity and uncertainty of analysis models. International Journal of Aeronautical and Space Sciences, 2016, 17, 268-283.	2.0	0
75	Numerical Experience with Variable-fidelity Metamodeling for Aerodynamic Data Fusion Problems. The Journal of Defense Acquisition and Technology, 2019, 1, 1-8.	0.2	0