

# Jaemyung Ahn

## List of Publications by Year in descending order

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63  
papers

534  
citations

759233

12  
h-index

752698

20  
g-index

63  
all docs

63  
docs citations

63  
times ranked

328  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization-Based Scheduling Method for Agile Earth-Observing Satellite Constellation. Journal of Aerospace Information Systems, 2018, 15, 611-626.	1.4	45
2	Market-Based Task Assignment for Cooperative Timing Missions in Dynamic Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 87, 97-123.	3.4	43
3	Column generation based heuristics for a generalized location routing problem with profits arising in space exploration. European Journal of Operational Research, 2012, 223, 47-59.	5.7	38
4	Innovation towards sustainable technologies: A socio-technical perspective on accelerating transition to aviation biofuel. Technological Forecasting and Social Change, 2019, 145, 317-329.	11.6	37
5	Noniterative Instantaneous Impact Point Prediction Algorithm for Launch Operations. Journal of Guidance, Control, and Dynamics, 2012, 35, 645-648.	2.8	21
6	Area Allocation Algorithm for Multiple UAVs Area Coverage Based on Clustering and Graph Method. IFAC-PapersOnLine, 2015, 48, 204-209.	0.9	21
7	Multitarget Rendezvous for Active Debris Removal Using Multiple Spacecraft. Journal of Spacecraft and Rockets, 2019, 56, 1237-1247.	1.9	20
8	Modeling and optimization of a reluctance accelerator using DOE-based response surface methodology. Journal of Mechanical Science and Technology, 2017, 31, 1321-1330.	1.5	16
9	Instantaneous Impact Point Prediction Using the Response-Surface Method. Journal of Guidance, Control, and Dynamics, 2013, 36, 958-966.	2.8	14
10	Lambert Algorithm Using Analytic Gradients. Journal of Guidance, Control, and Dynamics, 2013, 36, 1751-1761.	2.8	14
11	Midcourse Guidance for Exoatmospheric Interception Using Response Surface Based Trajectory Shaping. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 3655-3673.	4.7	14
12	Credibility Assessment of Models and Simulations Based on NASA's Models and Simulation Standard Using the Delphi Method. Systems Engineering, 2014, 17, 237-248.	2.7	13
13	Design Structure Matrix Modeling of a Supply Chain Management System Using Biperspective Group Decision. IEEE Transactions on Engineering Management, 2017, 64, 220-233.	3.5	13
14	Analytic Time Derivatives of Instantaneous Impact Point. Journal of Guidance, Control, and Dynamics, 2014, 37, 383-390.	2.8	12
15	Task Scheduling of Agile Satellites with Transition Time and Stereoscopic Imaging Constraints. Journal of Aerospace Information Systems, 2020, 17, 285-293.	1.4	12
16	Two-phase framework for near-optimal multi-target Lambert rendezvous. Advances in Space Research, 2018, 61, 1273-1285.	2.6	11
17	Near time-optimal feedback instantaneous impact point (IIP) guidance law for rocket. Aerospace Science and Technology, 2018, 76, 523-529.	4.8	11
18	Acceleration of Zero-Revolution Lambert's Algorithms Using Table-Based Initialization. Journal of Guidance, Control, and Dynamics, 2015, 38, 335-342.	2.8	10

#	ARTICLE	IF	CITATIONS
19	Yaw-Control Spoiler Design Using Design of Experiments Based Wind Tunnel Testing. Journal of Aircraft, 2015, 52, 713-718.	2.4	10
20	Optimal staging of reusable launch vehicles for minimum life cycle cost. Aerospace Science and Technology, 2022, 127, 107703.	4.8	10
21	Pareto front generation with knee-point based pruning for mixed discrete multi-objective optimization. Structural and Multidisciplinary Optimization, 2018, 58, 823-830.	3.5	9
22	Vehicle routing problem with vector profits with max-min criterion. Engineering Optimization, 2019, 51, 352-367.	2.6	9
23	Group Decision Procedure to Model the Dependency Structure of Complex Systems: Framework and Case Study for Critical Infrastructures. Systems Engineering, 2015, 18, 323-338.	2.7	8
24	Intercept Point Prediction of Ballistic Missile Defense Using Neural Network Learning. International Journal of Aeronautical and Space Sciences, 2020, 21, 1092-1104.	2.0	8
25	Optimal staging of reusable launch vehicles considering velocity losses. Aerospace Science and Technology, 2021, 109, 106431.	4.8	8
26	Integrated optimization of planetary rover layout and exploration routes. Engineering Optimization, 2018, 50, 164-182.	2.6	7
27	Dynamic selection of zero-revolution Lambert algorithms using performance comparison map. Aerospace Science and Technology, 2016, 51, 96-105.	4.8	6
28	Guidance scheme for operating multiple ship defense missiles with dual seekers. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 601-614.	1.3	6
29	Analytic Solution of Projectile Motion with Quadratic Drag and Unity Thrust. IFAC-PapersOnLine, 2016, 49, 40-45.	0.9	5
30	Trajectory Optimization of a Launch Vehicle with Explicit Instantaneous Impact Point Constraints for Various Range Safety Requirements. Journal of Aerospace Engineering, 2016, 29, 06015003.	1.4	5
31	Instantaneous Impact Point Guidance Considering Uncertainty in Engine Cutoff Time. Journal of Guidance, Control, and Dynamics, 2020, 43, 373-382.	2.8	5
32	Noniterative feedback midcourse guidance for exo-atmospheric interception of ballistic targets using virtual impact point steering. Aerospace Science and Technology, 2021, 119, 107159.	4.8	5
33	Information-maximizing adaptive design of experiments for wind tunnel testing. , 2014, , 329-334.		4
34	Market-Based Task Assignment for Cooperative Timing Missions over Networks with Limited Connectivity. , 2015, , .		4
35	New Formulation for Time Derivatives of Instantaneous Impact Point Based on Geometric Decomposition. Journal of Aerospace Engineering, 2018, 31, 04018036.	1.4	4
36	Two-phase framework for footprint prediction of space object reentry. Advances in Space Research, 2019, 64, 824-835.	2.6	4

#	ARTICLE	IF	CITATIONS
37	Improving supply chain management process using design structure matrix based cross-functional analysis. <i>Systems Engineering</i> , 2019, 22, 313-329.	2.7	4
38	Optimal terminal-time determination for the ZEM/ZEV feedback guidance law with generalized performance index. <i>Astrodynamics</i> , 2019, 3, 127-136.	2.4	4
39	Cost-Aware Adaptive Design of Experiment with Nonstationary Surrogate Model for Wind Tunnel Testing. <i>International Journal of Aeronautical and Space Sciences</i> , 2020, 21, 670-680.	2.0	4
40	Optimal Planetary Surface Routing Considering Exploration Values and Synergies. <i>Journal of Aerospace Information Systems</i> , 2022, 19, 406-420.	1.4	4
41	Adjusted Instantaneous Impact Point and New Flight Safety Decision Rule. <i>Journal of Spacecraft and Rockets</i> , 2016, 53, 766-773.	1.9	3
42	On Selecting the Correct Root of Angles-Only Initial Orbit Determination Equations of Lagrange, Laplace, and Gauss. <i>Journal of the Astronautical Sciences</i> , 2017, 64, 50-71.	1.5	3
43	Entropy-based system assessment metric for determining architecture's robustness to different stakeholder perspectives. <i>Systems Engineering</i> , 2018, 21, 476-489.	2.7	3
44	Earned Value Management Considering Technical Readiness Level and Its Application to New Space Launcher Program. <i>International Journal of Aeronautical and Space Sciences</i> , 2018, 19, 227-237.	2.0	3
45	Integrated Framework for Task Scheduling and Attitude Control of Multiple Agile Satellites. <i>Journal of Aerospace Information Systems</i> , 2021, 18, 539-552.	1.4	3
46	Integrated Optimal Guidance for Reentry and Landing of a Rocket Using Multi-Phase Pseudo-Spectral Convex Optimization. <i>International Journal of Aeronautical and Space Sciences</i> , 2022, 23, 766-774.	2.0	3
47	Trajectory optimization and control algorithm of longitudinal perch landing assisted by thruster. , 2016, , .		2
48	Optimal Multi-Target Lambert Rendezvous. , 2016, , .		2
49	Two-phase experimental design with adaptive subsampling for wind tunnel testing based aerodynamic modeling. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 5041-5050.	1.5	2
50	Integrated Framework for Staging and Trajectory Optimization of a Launch Vehicle Considering Range Safety Operations. <i>International Journal of Aeronautical and Space Sciences</i> , 2021, 22, 963-973.	2.0	2
51	Analytical Staring Attitude Control Command Generation Method for Earth Observation Satellites. <i>Journal of Guidance, Control, and Dynamics</i> , 2022, 45, 1347-1356.	2.8	2
52	Response surface smoothing for wind tunnel testing based on design of experiment with subspace partitioning. , 2014, , .		1
53	Pruning-based pareto front generation for mixed-discrete bi-objective optimization. <i>Structural and Multidisciplinary Optimization</i> , 2015, 51, 193-198.	3.5	1
54	Response surface modeling-based analysis on launch vehicle capability. <i>Advances in Space Research</i> , 2018, 62, 3281-3297.	2.6	1

#	ARTICLE	IF	CITATIONS
55	Framework to operate multiple ship defense missiles under uncertain evasive maneuvers of target. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 2001-2018.	1.3	1
56	Perch Landing Assisted by Thruster (PLAT): Concept and Trajectory Optimization. International Journal of Aeronautical and Space Sciences, 2016, 17, 378-390.	2.0	1
57	Optimal Multi-target Rendezvous by Using Multi-layer Elementary Solutions. , 2022, , .		1
58	Dual-Mode Framework for Space Object Collision Risk Assessment. Uju Gisulgwa Eungyong, 2022, 2, 13-29.	0.3	1
59	Cost Estimation of Earth Observation Satellites Based on Technology-Aware Complexity and Cost Adjustment. International Journal of Aeronautical and Space Sciences, 0, , 1.	2.0	1
60	Multi-attribute optimization-based system decomposition considering several value chain stakeholder perspectives. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2020, 31, 411-428.	2.1	0
61	Adaptive Experimental Design for Aerodynamic Modeling with Hard-to-Change Factors. Journal of Aerospace Information Systems, 2020, 17, 311-321.	1.4	0
62	Procedure and methodologies for managing the risk of space object reentry. Advances in Space Research, 2021, 67, 1844-1858.	2.6	0
63	Multi-disciplinary and Multi-objective Design Optimization of a Lunar Rover System with Operational Considerations. International Journal of Aeronautical and Space Sciences, 2022, 23, 192-206.	2.0	0