

# Inseok Hwang

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

761  
citations

687363  
13  
h-index

552781  
26  
g-index

46  
all docs

46  
docs citations

46  
times ranked

572  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probabilistic Trajectory Prediction and Conflict Detection for Air Traffic Control. Journal of Guidance, Control, and Dynamics, 2011, 34, 1779-1789.	2.8	104
2	Reachability Analysis for Safety Assurance of Cyber-Physical Systems Against Cyber Attacks. IEEE Transactions on Automatic Control, 2018, 63, 2272-2279.	5.7	70
3	Stochastic Linear Hybrid Systems: Modeling, Estimation, and Application in Air Traffic Control. IEEE Transactions on Control Systems Technology, 2009, 17, 563-575.	5.2	66
4	Adaptive fast nonsingular terminal sliding mode control for attitude tracking of flexible spacecraft with rotating appendage. Aerospace Science and Technology, 2019, 93, 105312.	4.8	64
5	Attitude control of rigid spacecraft with predefined-time stability. Journal of the Franklin Institute, 2020, 357, 4212-4221.	3.4	62
6	Stochastic optimal control for aircraft conflict resolution under wind uncertainty. Aerospace Science and Technology, 2015, 43, 77-88.	4.8	60
7	Challenges and Opportunities in Flight Data Mining: A Review of the State of the Art. , 2016, , .		34
8	Probabilistic Aircraft Midair Conflict Resolution Using Stochastic Optimal Control. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 37-46.	8.0	29
9	Reachable set computation for spacecraft relative motion with energy-limited low-thrust. Aerospace Science and Technology, 2018, 77, 180-188.	4.8	29
10	A numerical algorithm for optimal control of a class of hybrid systems: differential transformation based approach. International Journal of Control, 2008, 81, 277-293.	1.9	24
11	Sensing-Based Distributed State Estimation for Cooperative Multiagent Systems. IEEE Transactions on Automatic Control, 2019, 64, 2368-2382.	5.7	20
12	Hybrid Machine Learning and Estimation-Based Flight Trajectory Prediction in Terminal Airspace. IEEE Access, 2021, 9, 151186-151197.	4.2	17
13	Multiple-Target Tracking and Identity Management with Application to Aircraft Tracking. Journal of Guidance, Control, and Dynamics, 2007, 30, 641-653.	2.8	16
14	Analytical Uncertainty Propagation for Satellite Relative Motion Along Elliptic Orbits. Journal of Guidance, Control, and Dynamics, 2016, 39, 1593-1601.	2.8	16
15	Distributed Multitarget Tracking and Identity Management. Journal of Guidance, Control, and Dynamics, 2008, 31, 12-29.	2.8	12
16	Incremental-Learning-Based Unsupervised Anomaly Detection Algorithm for Terminal Airspace Operations. Journal of Aerospace Information Systems, 2019, 16, 362-384.	1.4	12
17	Delay-Tolerant Adaptive Robust Tracking Control of Uncertain Time-Delay Systems. IEEE Transactions on Automatic Control, 2020, 65, 695-710.	5.7	12
18	Gaussian mixture probability hypothesis density filter against measurement origin uncertainty. Signal Processing, 2020, 171, 107448.	3.7	10

#	ARTICLE	IF	CITATIONS
19	Trajectory pattern identification and classification for real-time air traffic applications in Area Navigation terminal airspace. Transportation Research Part C: Emerging Technologies, 2022, 142, 103765.	7.6	10
20	Temporal logic learning-based anomaly detection in metroplex terminal airspace operations. Transportation Research Part C: Emerging Technologies, 2021, 126, 103036.	7.6	8
21	Data-Mining-Based Computer Vision Analytics for Automated Helicopter Flight State Inference. Journal of Aerospace Information Systems, 2017, 14, 652-662.	1.4	7
22	Anomaly Detection Using Temporal Logic Based Learning for Terminal Airspace Operations. , 2019, , .		7
23	Multi-target identity management with decentralized optimal sensor scheduling. European Journal of Control, 2020, 56, 10-37.	2.6	7
24	Cooperative Multiple Agent-Based Algorithm for Evacuation Planning for Victims with Different Urgencies. Journal of Aerospace Information Systems, 2018, 15, 382-395.	1.4	6
25	Distributed State Estimation for Stochastic Linear Hybrid Systems With Finite-Time Fusion. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 3084-3095.	4.7	6
26	Data-Driven Modeling and Analysis Framework for Cockpit Human-Machine Interaction Issues. Journal of Aerospace Information Systems, 2016, 13, 370-380.	1.4	5
27	Prediction-based Adaptive Robust Control for a Class of Uncertain Time-delay Systems. IFAC-PapersOnLine, 2017, 50, 6489-6494.	0.9	5
28	Approximated Closed-Form Solution to Energy-Optimal Satellite Formation Reconfiguration Near Elliptic Orbits. Journal of Guidance, Control, and Dynamics, 2018, 41, 2082-2084.	2.8	5
29	Development of data-driven conflict resolution generator for en-route airspace. Aerospace Science and Technology, 2021, 114, 106744.	4.8	5
30	A Low Complexity Approach to Model-Free Stochastic Inverse Linear Quadratic Control. IEEE Access, 2022, 10, 9298-9308.	4.2	5
31	Kalman filtering with state-dependent packet losses. IET Control Theory and Applications, 2019, 13, 306-312.	2.1	4
32	Dynamic model-based feature aided data association filter in target tracking. IET Radar, Sonar and Navigation, 2020, 14, 279-289.	1.8	4
33	Integer Linear Program Approach for Evacuation of Disaster Victims with Different Urgency Levels. IFAC-PapersOnLine, 2017, 50, 15018-15023.	0.9	3
34	Optimal state estimation for LTI systems with imperfect observations. , 2017, , .		3
35	Multi-target identity management for unknown and time-varying number of targets in clutter. European Journal of Control, 2021, 60, 20-35.	2.6	3
36	Prediction-based Adaptive Robust Compensation for Motion Control of Time-delayed Uncertain Linear Motors. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
37	Gaussian Mixture PHD Filter with State-Dependent Jump Markov System Models. , 2019, , .		2
38	Trajectory Pattern Identification for Arrivals in Vectored Airspace. , 2021, , .		2
39	Cyberattack-Resilient Hybrid Controller Design with Application to UAS. Unmanned System Technologies, 2019, , 33-56.	1.0	1
40	Prediction-based Adaptive Robust Tracking Control of an Uncertain First-Order Time-Delay System. Asian Journal of Control, 2020, 22, 584-589.	3.0	1
41	Control Protocol Design and Analysis for Unmanned Aircraft System Traffic Management. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5914-5925.	8.0	1
42	Controlled Mode Distinguishability for Cybersecurity. , 2022, 6, 998-1003.		1
43	Learning based Cyberattack Design and Defense for Supervisory Control Systems. , 2021, , .		1
44	Delay-tolerant Adaptive Robust Control Applied to Flight Control. , 2018, , .		0
45	Path Planning for a Network of Robots with Distributed Multi-Objective Linear Programming. , 2021, , .		0
46	Gaussian Mixture Probability Hypothesis Density Filter with State-Dependent Probabilities. , 2021, , .		0