Han-Lim Choi

List of Publications by Year
in descending order

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137	2,097	471509	315739
papers	citations	17	38
		h-index	g-index

140	140	140	1305
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Consensus-Based Decentralized Auctions for Robust Task Allocation. IEEE Transactions on Robotics, 2009, 25, 912-926.	10.3	680
2	Decentralized planning for complex missions with dynamic communication constraints. , 2010, , .		77
3	Distributed Planning Strategies to Ensure Network Connectivity for Dynamic Heterogeneous Teams. IEEE Journal on Selected Areas in Communications, 2012, 30, 861-869.	14.0	67
4	Consensus-Based Auction Approaches for Decentralized Task Assignment. , 2008, , .		63
5	Continuous trajectory planning of mobile sensors for informative forecasting. Automatica, 2010, 46, 1266-1275.	5.0	58
6	Impact Time Control Based on Time-to-Go Prediction for Sea-Skimming Antiship Missiles. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2043-2052.	4.7	55
7	Decentralized task allocation with coupled constraints in complex missions. , 2011, , .		49
8	Optimization-Based Scheduling Method for Agile Earth-Observing Satellite Constellation. Journal of Aerospace Information Systems, 2018, 15, 611-626.	1.4	45
9	Improving the Efficiency of a Decentralized Tasking Algorithm for UAV Teams with Asynchronous Communications. , 2010, , .		43
10	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
11	Asynchronous Decentralized Task Allocation for Dynamic Environments. , 2011, , .		40
12	Partial Replanning for Decentralized Dynamic Task Allocation. , 2019, , .		33
13	A Gaussian process emulator approach for rapid contaminant characterization with an integrated multizone-CFD model. Building and Environment, 2013, 70, 232-244.	6.9	28
14	Convolutional Neural Network for Monocular Vision-based Multi-target Tracking. International Journal of Control, Automation and Systems, 2019, 17, 2284-2296.	2.7	28
15	A Bid-Based Grouping Method for Communication-Efficient Decentralized Multi-UAV Task Allocation. International Journal of Aeronautical and Space Sciences, 2020, 21, 290-302.	2.0	27
16	Efficient Targeting of Sensor Networks for Large-Scale Systems. IEEE Transactions on Control Systems Technology, 2011, 19, 1569-1577.	5.2	25
17	Coordinated Targeting of Mobile Sensor Networks for Ensemble Forecast Improvement. IEEE Sensors Journal, 2011, 11, 621-633.	4.7	23
18	The role of information assumptions in decentralized task allocation: A tutorial. IEEE Control Systems, 2016, 36, 45-58.	0.8	23

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19	Allowing non-submodular score functions in distributed task allocation. , 2012, , .		21
20	Cubature Kalman Filter Based Fault Detection and Isolation for Formation Control of Multi-UAVs. IFAC-PapersOnLine, 2016, 49, 63-68.	0.9	21
21	Predictive Planning for Heterogeneous Human-Robot Teams. , 2010, , .		20
22	A Potential-Game Approach for Information-Maximizing Cooperative Planning of Sensor Networks. IEEE Transactions on Control Systems Technology, 2015, 23, 2326-2335.	5.2	20
23	Learning-Based Anomaly Detection and Monitoring for Swarm Drone Flights. Applied Sciences (Switzerland), 2019, 9, 5477.	2.5	20
24	Ensemble-Based Adaptive Targeting of Mobile Sensor Networks. Proceedings of the American Control Conference, 2007, , .	0.0	19
25	Decentralized Task Allocation Using Local Information Consistency Assumptions. Journal of Aerospace Information Systems, 2017, 14, 103-122.	1.4	18
26	Deep Generative Models-Based Anomaly Detection for Spacecraft Control Systems. Sensors, 2020, 20, 1991.	3.8	18
27	Neural network guidance based on pursuit-evasion games with enhanced performance. Control Engineering Practice, 2006, 14, 735-742.	5.5	16
28	Market-Based Distributed Task Assignment of Multiple Unmanned Aerial Vehicles for Cooperative Timing Mission. Journal of Aircraft, 2017, 54, 2298-2310.	2.4	16
29	The Hybrid Information and Plan Consensus Algorithm with Imperfect Situational Awareness. Springer Tracts in Advanced Robotics, 2016, , 221-233.	0.4	16
30	A hyperparameter consensus method for agreement under uncertainty. Automatica, 2012, 48, 374-380.	5.0	15
31	A Distributed ADMM Approach to Non-Myopic Path Planning for Multi-Target Tracking. IEEE Access, 2019, 7, 163589-163603.	4.2	14
32	An outer-approximation approach for information-maximizing sensor selection. Optimization Letters, 2013, 7, 745-764.	1.6	13
33	Hybrid Information and Plan Consensus in Distributed Task Allocation. , 2013, , .		13
34	A Generalized Polynomial Chaos-Based Method for Efficient Bayesian Calibration of Uncertain Computational Models. Inverse Problems in Science and Engineering, 2014, 22, 602-624.	1.2	13
35	Deep Gaussian Process-Based Bayesian Inference for Contaminant Source Localization. IEEE Access, 2018, 6, 49432-49449.	4.2	12
36	A Convex Programming Approach to Mid-course Trajectory Optimization for Air-to-Ground Missiles. International Journal of Aeronautical and Space Sciences, 2020, 21, 479-492.	2.0	12

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37	Task Scheduling of Agile Satellites with Transition Time and Stereoscopic Imaging Constraints. Journal of Aerospace Information Systems, 2020, 17, 285-293.	1.4	12
38	A Multi-UAV Targeting Algorithm for Ensemble Forecast Improvement. , 2007, , .		11
39	Approximate Inference-Based Motion Planning by Learning and Exploiting Low-Dimensional Latent Variable Models. IEEE Robotics and Automation Letters, 2018, 3, 3892-3899.	5.1	11
40	Autonomous formation flight of multiple flapping-wing flying vehicles using motion capture system. Aerospace Science and Technology, 2014, 39, 596-604.	4.8	10
41	Yaw-Control Spoiler Design Using Design of Experiments Based Wind Tunnel Testing. Journal of Aircraft, 2015, 52, 713-718.	2.4	10
42	Search optimization for minimum load under detection performance constraints in multi-function phased array radars. Aerospace Science and Technology, 2015, 40, 86-95.	4.8	10
43	Distributed Observes for Cyberattack Detection and Isolation in Formation-Flying Unmanned Aerial Vehicles. Journal of Aerospace Computing, Information, and Communication, 2017, 14, 551-565.	0.8	10
44	Minimizing Communications in Decentralized Greedy Task Allocation. Journal of Aerospace Information Systems, 2019, 16, 340-345.	1.4	10
45	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
46	Potential Game-Based Non-Myopic Sensor Network Planning for Multi-Target Tracking. IEEE Access, 2018, 6, 79245-79257.	4.2	9
47	State Prediction of High-speed Ballistic Vehicles with Gaussian Process. International Journal of Control, Automation and Systems, 2018, 16, 1282-1292.	2.7	9
48	Emerging UAV Applications in Agriculture. , 2019, , .		9
49	Deep Neural Network-Based Landmark Selection Method for Optical Navigation on Lunar Highlands. IEEE Access, 2020, 8, 99010-99023.	4.2	9
50	Ensuring Network Connectivity for Decentralized Planning in Dynamic Environments. , 2011, , .		8
51	A Stochastic Game-Based Approach for Multiple Beyond-Visual-Range Air Combat. Unmanned Systems, 2018, 06, 67-79.	3.6	8
52	Informative Path Planning and Mapping with Multiple UAVs in Wind Fields. Springer Proceedings in Advanced Robotics, 2018, , 269-283.	1.3	8
53	A Traveling Salesman Problem-Based Approach to Observation Scheduling for Satellite Constellation. International Journal of Aeronautical and Space Sciences, 2019, 20, 553-560.	2.0	8
54	Interleaved Radar Pulse Scheduling for Multitarget Tracking With Multiple Simultaneous Receive Beams. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 1301-1318.	4.7	8

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55	A co-evolutionary method for pursuit-evasion games with non-zero lethal radii. Engineering Optimization, 2004, 36, 19-36.	2.6	7
56	On the roles of smoothing in planning of informative paths. , 2009, , .		7
57	A topology-guided path integral approach for stochastic optimal control. , 2016, , .		7
58	Min-Max Tours for Task Allocation to Heterogeneous Agents. , 2018, , .		7
59	Convolutional Neural Network-Based Multi-Target Detection and Recognition Method for Unmanned Airborne Surveillance Systems. International Journal of Aeronautical and Space Sciences, 2019, 20, 1038-1046.	2.0	7
60	Min-Max Tours and Paths for Task Allocation toÂHeterogeneous Agents. IEEE Transactions on Control of Network Systems, 2020, 7, 1511-1522.	3.7	7
61	Continuous motion planning for information forecast. , 2008, , .		6
62	Optimal resource management algorithm for unmanned aerial vehicle missions in hostile territories. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2014, 228, 2157-2167.	1.3	6
63	Optimal Continuous-Time Job Scheduling for Multiple Low Earth Orbit Satellites. , 2016, , .		6
64	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
65	Heterogeneous, Multiple Depot Multi-UAV Path Planning for Remote Sensing Tasks. , 2018, , .		6
66	Optimal Target Assignment with Seamless Handovers for Networked Radars. Sensors, 2019, 19, 4555.	3.8	6
67	Topology-guided path integral approach for stochastic optimal control in cluttered environment. Robotics and Autonomous Systems, 2019, 113, 81-93.	5.1	6
68	Integrated Simulator of Airborne Multi-function Radar Resource Manager and Environment Model. Journal of the Korean Society for Aeronautical & Space Sciences, 2013, 41, 577-587.	0.1	6
69	Actor-Critic Policy Learning in Cooperative Planning. , 2010, , .		5
70	Convergence analysis of the Hybrid Information and Plan Consensus Algorithm. , 2014, , .		5
71	Informative windowed forecasting of continuous-time linear systems for mutual information-based sensor planning. Automatica, 2015, 57, 97-104.	5.0	5
72	Interactive Multiple Neural Adaptive Observer based Sensor and Actuator Fault Detection and Isolation for Quadcopter. , 2019, , .		5

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73	Improving Computational Efficiency in Crowded Task Allocation Games with Coupled Constraints. Applied Sciences (Switzerland), 2019, 9, 2117.	2.5	5
74	Sampling-Based Tour Generation of Arbitrarily Oriented Dubins Sensor Platforms. Journal of Aerospace Information Systems, 2019, 16, 168-186.	1.4	5
75	A Practical Optimal Guidance Scheme Under Impact Angle and Terminal Acceleration Constraints. International Journal of Aeronautical and Space Sciences, 2021, 22, 923-935.	2.0	5
76	Potential Game-Theoretic Analysis of a Market-Based Decentralized Task Allocation Algorithm. Springer Tracts in Advanced Robotics, 2016, , 207-220.	0.4	5
77	Learning the Covariance Dynamics of a Large-Scale Environment for Informative Path Planning of Unmanned Aerial Vehicle Sensors. International Journal of Aeronautical and Space Sciences, 2010, 11, 326-337.	2.0	5
78	Information-maximizing adaptive design of experiments for wind tunnel testing. , 2014, , 329-334.		4
79	Market-Based Task Assignment for Cooperative Timing Missions over Networks with Limited Connectivity. , 2015, , .		4
80	Ballistic Object Trajectory and Launch Point Estimation from Radar Measurements using Long-Short Term Memory Networks. , 2019, , .		4
81	Memetic algorithm-based path generation for multiple Dubins vehicles performing remote tasks. International Journal of Systems Science, 2020, 51, 608-630.	5.5	4
82	Co-evolutionary optimization of three-dimensional target evasive maneuver against a proportionally guided missile. , 0, , .		3
83	An outer-approximation algorithm for generalized maximum entropy sampling. , 2008, , .		3
84	Nonlinear missile autopilot design using a density function-based sum-of-squares optimization approach. , 2015, , .		3
85	Integer Linear Program Approach for Evacuation of Disaster Victims with Different Urgency Levels. IFAC-PapersOnLine, 2017, 50, 15018-15023.	0.9	3
86	Integrated Risk Management Method Development for Multiple Aerospace Projects Using a Single Index Expression. International Journal of Aeronautical and Space Sciences, 2018, 19, 1052-1062.	2.0	3
87	Three-Dimensional Impact Angle Guidance Laws for Precision Guided Munition. , 2019, , .		3
88	On periodic optimal solutions of persistent sensor planning for continuous-time linear systems. Automatica, 2019, 99, 138-148.	5.0	3
89	Closed-Form Impact-Angle-Control Guidance of Nose-Dive Missiles for Maximum Terminal Speed. International Journal of Aeronautical and Space Sciences, 0, , 1.	2.0	3
90	A potential game approach for distributed cooperative sensing for maximum mutual information. , 2013, , .		2

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91	An IMM-based method for reentry-phase tracking of unknown ballistic missiles. , 2013, , .		2
92	HRRPs-based target length estimation using a FMCW radar. , 2014, , .		2
93	Market-Based Distributed Task Assignment for Rendezvous Mission over Networks with Limited Connectivity. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 888-893.	0.4	2
94	Two-phase experimental design with adaptive subspacing for wind tunnel testing based aerodynamic modeling. Journal of Mechanical Science and Technology, 2016, 30, 5041-5050.	1.5	2
95	Mitigating Gibbs Phenomena in Uncertainty Quantification With a Stochastic Spectral Method. Journal of Verification, Validation and Uncertainty Quantification, 2017, 2, .	0.4	2
96	A quadratic-cost dual control-based approach for optimal trajectory planning under uncertainty. International Journal of Control, Automation and Systems, 2017, 15, 2253-2261.	2.7	2
97	A neural process approach for probabilistic reconstruction of no-data gaps in lunar digital elevation maps. Aerospace Science and Technology, 2021, 113, 106672.	4.8	2
98	Moving Target Tracking and Recognition Method for Unmanned Airborne Surveillance Systems. Journal of Institute of Control, Robotics and Systems, 2017, 23, 157-164.	0.2	2
99	Analysis of mutual information for informative forecasting using mobile sensors. , 2010, , .		1
100	A hyperparameter-based approach for consensus under uncertainties. , 2010, , .		1
101	A Polynomial Chaos Based Bayesian Inference Method With Uncertain Hyper-Parameters. , 2011, , .		1
102	Decentralized Task Re-planning Approaches with en Route Information Rewards. Advances in Intelligent Systems and Computing, 2013, , 599-609.	0.6	1
103	Periodic sensing trajectory generation for persistent monitoring. , 2014, , .		1
104	Pruning-based pareto front generation for mixed-discrete bi-objective optimization. Structural and Multidisciplinary Optimization, 2015, 51, 193-198.	3.5	1
105	Convolutional neural network-based spacecraft attitude control for docking port alignment. , 2017, , .		1
106	Multiscale abstraction, planning and control using diffusion wavelets for stochastic optimal control problems. , 2017, , .		1
107	Sum-of-Squares-Based Region of Attraction Analysis for Gain-Scheduled Three-Loop Autopilot. International Journal of Aeronautical and Space Sciences, 2018, 19, 196-207.	2.0	1
108	Efficient sensor network planning based on approximate potential games. International Journal of Distributed Sensor Networks, 2018, 14, 155014771878145.	2.2	1

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109	An Out-of-sequence Measurement Fusion Method for Guidance Filtering with Delayed Measurements. International Journal of Control, Automation and Systems, 2018, 16, 512-521.	2.7	1
110	A Bayesian Approach to Learning and Planning for Partially Observable Dynamical Systems. , 2019, , .		1
111	UAV Path Planning for Local DefenseÂSystems. Lecture Notes in Mechanical Engineering, 2020, , 199-211.	0.4	1
112	Joint Decision and Fault Estimation for Formation Control of Interconnected UAVs. , 2020, , .		1
113	A Telemetry-Based Post-flight Wind Profile Estimation Method for Air-to-Surface Missiles. International Journal of Aeronautical and Space Sciences, 2021, 22, 687-702.	2.0	1
114	Softly Constrained Particle Filter for Digital Terrain Elevation Data Aided Ground Moving Target Tracking. , 2021, , .		1
115	Enhancing the Resolution of Digital Elevation Models Using Surface Normal from Planetary Images. International Journal of Aeronautical and Space Sciences, 2021, 22, 1243-1250.	2.0	1
116	Decentralized task allocation with coupled constraints in complex missions. , 0, .		1
117	Resolution enhancement of DEM using photometric stereo method in time-varying shadowed region. , 2017, , .		1
118	Distilling a Hierarchical Policy for Planning and Control via Representation and Reinforcement Learning. , 2021, , .		1
119	Ground Moving Target Tracking Filter Considering Terrain and Kinematics. Sensors, 2021, 21, 6902.	3.8	1
120	Complex Semantic-Spatial Relation Aided Indoor Target-Directed Exploration. IEEE Access, 2021, 9, 167039-167053.	4.2	1
121	Online Gaussian Process State-space Model: Learning and Planning for Partially Observable Dynamical Systems. International Journal of Control, Automation and Systems, 2022, 20, 601-617.	2.7	1
122	Avoid communication outages in decentralized planning. , 2010, , .		0
123	Heuristic pulse interleaving algorithms for multi-target tracking on pulse Doppler phased array radars. , 2012, , .		0
124	Pass rate analysis of interception heuristic against border crossers along a linear border. , 2012, , .		0
125	An efficient particle filter-based potential game method for distributed sensor network management. , 2014, , .		0
126	A Dynamic Blâ€“Orthogonal Field Equation Approach to Efficient Bayesian Inversion. International Journal of Applied Mathematics and Computer Science, 2017, 27, 229-243.	1.5	0

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127	Efficient airplane arrival scheduling using a set partitioning-based branch-and-price method. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 2939-2951.	1.3	0
128	Approximate Local Utility Design for Potential Game Approach to Cooperative Sensor Network Planning. , 2018, , 423-444.		0
129	Adaptive path-integral autoencoder: representation learning and planning for dynamical systems. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 124008.	2.3	0
130	Optimal Cooperative Guidance Laws for Two UAVs Under Sensor Information Deficiency Constraints. Sensors, 2020, 20, 4790.	3.8	0
131	An Expert Data-Driven Air Combat Maneuver Model Learning Approach. , 2021, , .		0
132	Consensus-Based Auction Approaches for Autonomous Urban Air Mobility on Demand Systems. Lecture Notes in Mechanical Engineering, 2021, , 377-385.	0.4	0
133	A diffusion wavelets-based multiscale framework for inverse optimal control of stochastic systems. International Journal of Systems Science, 2021, 52, 2228-2240.	5.5	0
134	Bayesian Nonparametric State-Space Model for System Identification with Distinguishable Multimodal Dynamics. Journal of Aerospace Information Systems, 2021, 18, 116-131.	1.4	0
135	A Gaussian Process-Enabled MCMC Approach for Contaminant Source Characterization in a Sensor-Rich Multi-Story Building. Lecture Notes in Computer Science, 2015, , 182-194.	1.3	0
136	A Decentralized Task Structure for Cooperative Transportation Missions. The Journal of Korea Robotics Society, 2015, 10, 133-138.	0.4	0
137	Informative Planning of Mobile Sensor Networks in GPS-Denied Environments. , 2020, , .		0