N Kemal Ure

List of Publications by Year
in descending order

57 papers	836 citations	933410 10 h-index	888047 17 g-index
57 all docs	57 docs citations	57 times ranked	756 citing authors

#	Article	IF	Citations
1	An Automated Battery Management System to Enable Persistent Missions With Multiple Aerial Vehicles. IEEE/ASME Transactions on Mechatronics, 2015, 20, 275-286.	5.8	99
2	Comparison of Fixed and Variable Pitch Actuators for Agile Quadrotors. , 2011, , .		76
3	Decentralized control of partially observable Markov decision processes. , 2013, , .		67
4	Automated Lane Change Decision Making using Deep Reinforcement Learning in Dynamic and Uncertain Highway Environment. , 2019, , .		67
5	Deep-learning-based crack detection with applications for the structural health monitoring of gas turbines. Structural Health Monitoring, 2020, 19, 1440-1452.	7.5	51
6	Integration of Path/Maneuver Planning in Complex Environments for Agile Maneuvering UCAVs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2010, 57, 143-170.	3.4	34
7	Health aware stochastic planning for persistent package delivery missions using quadrotors. , 2014, , .		30
8	Autonomous Control of Unmanned Combat Air Vehicles: Design of a Multimodal Control and Flight Planning Framework for Agile Maneuvering. IEEE Control Systems, 2012, 32, 74-95.	0.8	28
9	Autolanding control system design with deep learning based fault estimation. Aerospace Science and Technology, 2020, 102, 105855.	4.8	28
10	Design and flight testing of an autonomous variable-pitch quadrotor. , 2011, , .		26
11	Localization and tracking of RF emitting targets with multiple unmanned aerial vehicles in large scale environments with uncertain transmitter power. , 2017, , .		18
12	Analysis of Delay Characteristics of European Air Traffic through a Data-Driven Airport-Centric Queuing Network Model. IFAC-PapersOnLine, 2016, 49, 359-364.	0.9	16
13	Measurable Augmented Reality for Prototyping Cyberphysical Systems: A Robotics Platform to Aid the Hardware Prototyping and Performance Testing of Algorithms. IEEE Control Systems, 2016, 36, 65-87.	0.8	16
14	Adaptive Planning for Markov Decision Processes with Uncertain Transition Models via Incremental Feature Dependency Discovery. Lecture Notes in Computer Science, 2012, , 99-115.	1.3	15
15	Health Aware Planning under uncertainty for UAV missions with heterogeneous teams. , 2013, , .		15
16	MAR-CPS: Measurable Augmented Reality for Prototyping Cyber-Physical Systems. , 2015, , .		15
17	Vision-based UAV Guidance for Autonomous Landing with Deep Neural Networks. , 2019, , .		15
18	Planning for large-scale multiagent problems via hierarchical decomposition with applications to UAV health management. , 2014, , .		14

#	Article	IF	Citations
19	A Probabilistic Algorithm for Mode Based Motion Planning of Agile Unmanned Air Vehicles in Complex Environments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 2661-2668.	0.4	13
20	Experimental Results of Concurrent Learning Adaptive Controllers. , 2012, , .		13
21	Edge on Wheels With OMNIBUS Networking for 6G Technology. IEEE Access, 2020, 8, 215928-215942.	4.2	13
22	A New Approach for Tactical Decision Making in Lane Changing: Sample Efficient Deep Q Learning with a Safety Feedback Reward. , 2020, , .		13
23	Design of a multi modal control framework for agile maneuvering UCAV. , 2009, , .		12
24	Design of higher order sliding mode control laws for a multi modal agile maneuvering UCAV. , 2008, , .		11
25	Enhancing Situational Awareness and Performance of Adaptive Cruise Control through Model Predictive Control and Deep Reinforcement Learning. , 2019, , .		11
26	Sample Efficient Interactive End-to-End Deep Learning for Self-Driving Cars with Selective Multi-Class Safe Dataset Aggregation. , 2019, , .		11
27	Fault tolerant heading control system design for Turac unmanned aerial vehicle. Transactions of the Institute of Measurement and Control, 2017, 39, 267-276.	1.7	10
28	Feasible Agile Maneuver Identification and Generation Algorithms on Multi Modal Control Framework. , 2009, , .		9
29	Scalable, MDP-based planning for multiple, cooperating agents. , 2012, , .		8
30	Distributed Learning for Planning Under Uncertainty Problems with Heterogeneous Teams. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 74, 529-544.	3.4	8
31	Switching Control Architecture with Parametric Optimization for Aircraft Upset Recovery. Journal of Guidance, Control, and Dynamics, 2019, 42, 2055-2068.	2.8	8
32	Multi-Agent Planning for Persistent Missions with Automated Battery Management. , 2011, , .		7
33	Experimental Demonstration of Multi-Agent Learning and Planning under Uncertainty for Persistent Missions with Automated Battery Management. , 2012, , .		6
34	Online heterogeneous multiagent learning under limited communication with applications to forest fire management. , 2015, , .		6
35	Optimization of Allocation and Launch Conditions of Multiple Missiles for Three-Dimensional Collaborative Interception of Ballistic Targets. International Journal of Aerospace Engineering, 2016, 2016, 1-14.	0.9	6
36	Hybrid systems modeling and automated air traffic control for three-dimensional separation assurance. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 1788-1809.	1.3	6

#	Article	IF	Citations
37	Decentralized learning-based planning for multiagent missions in the presence of actuator failures. , 2013, , .		4
38	Recoverability Envelope Analysis of Nonlinear Control Laws for Agile Maneuvering Aircraft. , 2018, , .		4
39	Finite State Automata Based Approach to Autonomous Stall and Upset Recovery for Agile Aircraft. , 2018, , .		4
40	Cooperative Interception of a Highly Manoeuvrable Aerial Target. , 2018, , .		3
41	Deep Recurrent and Convolutional Networks for Accelerated Fault Tolerant Adaptive Flight Control Under Severe Failures. , 2018, , .		3
42	Nonlinear Model Based Guidance with Deep Learning Based Target Trajectory Prediction Against Aerial Agile Attack Patterns. , 2021, , .		3
43	Predictive Missile Guidance with Online Trajectory Learning. Defence Science Journal, 2017, 67, 332.	0.8	3
44	Investigating Value of Curriculum Reinforcement Learning in Autonomous Driving Under Diverse Road and Weather Conditions. , 2021, , .		3
45	The development of a Software and Hardware-in-the-Loop Test System for ITU-PSAT II nano satellite ADCS. , 2011, , .		2
46	Infrastructure Development for Ground-Based Separation Assurance with Optional Automation. , 2015, , .		2
47	Health Aware Planning Under Uncertainty for Collaborating Heterogeneous Teams of Mobile Agents. Unmanned Systems, 2015, 03, 89-107.	3.6	1
48	Predictive missile guidance for agile maneuvering targets with stochastic hybrid dynamics. , 2016, , .		1
49	Deep Learning Based Fault Tolerant Thrust Vector Control. , 2022, , .		1
50	Development of A Stochastic Traffic Environment with Generative Time-Series Models for Improving Generalization Capabilities of Autonomous Driving Agents. , 2020, , .		1
51	Distributed Learning for Large-scale Planning Under Uncertainty Problems with Heterogeneous Teams. , 2013, , .		0
52	Modeling and Simulation of Aerobee-150A Sounding Rocket. , 2017, , .		0
53	Rate envelope based time efficient strategy for upset recovery of a fighter aircraft. , 2018, , .		0
54	An Online Algorithm for Optimizing Invariant Conditions for Procedural Nonlinear Constrained Hybrid Systems. , 2018, , .		0

#	Article	IF	Citations
55	Deep Recurrent and Convolutional Networks for Robust Fault Tolerant Autonomous Landing Control System Design Under Severe Conditions. , 2019, , .		0
56	Integration of Path/Maneuver Planning in Complex Environments for Agile Maneuvering UCAVs. , 2009, , 143-170.		0
57	Multiagent Planning for Persistent Surveillance. , 2015, , .		0