MatÄ›j PetrlÃ-k

List of Publications by Year
in descending order

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Version: 2024-02-01

15 papers	316 citations	1478505 6 h-index	1588992 8 g-index
15 all docs	15 docs citations	15 times ranked	220 citing authors

#	Article	IF	Citations
1	Autonomous capture of agile flying objects using UAVs: The MBZIRC 2020 challenge. Robotics and Autonomous Systems, 2022, 149, 103970.	5.1	6
2	Extinguishing Real Fires by Fully Autonomous Multirotor UAVs in the MBZIRC 2020 Competition. , 2022, 2, 406-436.		1
3	Autonomous Firefighting Inside Buildings by an Unmanned Aerial Vehicle. IEEE Access, 2021, 9, 15872-15890.	4.2	35
4	The MRS UAV System: Pushing the Frontiers of Reproducible Research, Real-world Deployment, and Education with Autonomous Unmanned Aerial Vehicles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	3.4	58
5	LIDAR-based Stabilization, Navigation and Localization for UAVs Operating in Dark Indoor Environments. , 2021, , .		10
6	Extinguishing of Ground Fires by Fully Autonomous UAVs motivated by the MBZIRC 2020 Competition. , 2021, , .		8
7	Large-Scale Exploration of Cave Environments by Unmanned Aerial Vehicles. IEEE Robotics and Automation Letters, 2021, 6, 7596-7603.	5.1	28
8	Autonomous Aerial Swarming in GNSS-denied Environments with High Obstacle Density. , 2021, , .		13
9	A Multi-UAV System for Detection and Elimination of Multiple Targets. , 2021, , .		6
10	A Robust UAV System for Operations in a Constrained Environment. IEEE Robotics and Automation Letters, 2020, 5, 2169-2176.	5.1	79
11	DARPA Subterranean Challenge: Multi-robotic Exploration of Underground Environments. Lecture Notes in Computer Science, 2020, , 274-290.	1.3	39
12	Cooperative Transport of Large Objects by a Pair of Unmanned Aerial Systems using Sampling-based Motion Planning. , 2019, , .		8
13	Coverage optimization in the Cooperative Surveillance Task using Multiple Micro Aerial Vehicles. , 2019, , .		8
14	Vision techniques for onâ€board detection, following, and mapping of moving targets. Journal of Field Robotics, 2019, 36, 252-269.	6.0	12
15	Data-Driven Policy Transfer With Imprecise Perception Simulation. IEEE Robotics and Automation Letters, 2018, 3, 3916-3921.	5.1	5