

Thomas Stastny

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

366
citations

933447

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1281871

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g-index

19
all docs

19
docs citations

19
times ranked

339
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of small hand-launched solar-powered UAVs: From concept study to a multi-day world endurance record flight. <i>Journal of Field Robotics</i> , 2017, 34, 1352-1377.	6.0	68
2	Long-Endurance Sensing and Mapping Using a Hand-Launchable Solar-Powered UAV. <i>Springer Tracts in Advanced Robotics</i> , 2016, , 441-454.	0.4	32
3	Free LSD: Prior-Free Visual Landing Site Detection for Autonomous Planes. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 2545-2552.	5.1	30
4	Robotic technologies for solar-powered UAVs: Fully autonomous updraft-aware aerial sensing for multiday search-and-rescue missions. <i>Journal of Field Robotics</i> , 2018, 35, 612-640.	6.0	28
5	Robust and Adaptive Nonlinear Model Predictive Controller for Unsteady and Highly Nonlinear Unmanned Aircraft. <i>IEEE Transactions on Control Systems Technology</i> , 2015, 23, 1620-1627.	5.2	27
6	Nonlinear Model Predictive Guidance for Fixed-wing UAVs Using Identified Control Augmented Dynamics. , 2018, , .		26
7	Long-duration fully autonomous operation of rotorcraft unmanned aerial systems for remote sensing data acquisition. <i>Journal of Field Robotics</i> , 2020, 37, 137-157.	6.0	25
8	Attitude and Cruise Control of a VTOL Tiltwing UAV. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 2683-2690.	5.1	23
9	Disturbance Estimation and Rejection for High-Precision Multirotor Position Control. , 2019, , .		21
10	Model-based transition optimization for a VTOL tailsitter. , 2017, , .		19
11	Nonlinear Model Predictive Velocity Control of a VTOL Tiltwing UAV. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 5776-5783.	5.1	18
12	Collaborative 3D Reconstruction Using Heterogeneous UAVs: System and Experiments. <i>Springer Proceedings in Advanced Robotics</i> , 2017, , 43-56.	1.3	12
13	Gone with the wind: Nonlinear guidance for small fixed-wing aircraft in arbitrarily strong windfields. , 2017, , .		12
14	A Collaborative Framework for 3D Mapping Using Unmanned Aerial Vehicles. <i>Lecture Notes in Computer Science</i> , 2016, , 110-130.	1.3	10
15	Fault-tolerant Flight Control of a VTOL Tailsitter UAV. , 2019, , .		5
16	On Flying Backwards: Preventing Run-away of Small, Low-speed, Fixed-wing UAVs in Strong Winds. , 2019, , .		2
17	Locally Power-optimal Nonlinear Model Predictive Control for Fixed-wing Airborne Wind Energy. , 2019, , .		2
18	Towards Autonomous Stratospheric Flight: A Generic Global System Identification Framework for Fixed-Wing Platforms. , 2018, , .		1