Armin Wedler

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1744623/publications.pdf

Version: 2024-02-01

22 papers	293 citations	1307594 7 h-index	1199594 12 g-index
25 all docs	25 docs citations	25 times ranked	399 citing authors

#	Article	IF	Citations
1	The ARCHES Space-Analogue Demonstration Mission: Towards Heterogeneous Teams of Autonomous Robots for Collaborative Scientific Sampling in Planetary Exploration. IEEE Robotics and Automation Letters, 2020, 5, 5315-5322.	5.1	46
2	Towards Autonomous Planetary Exploration. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 93, 461-494.	3.4	44
3	Dexhand: A Space qualified multi-fingered robotic hand. , 2011, , .		30
4	A modular cable robot for inspection and light manipulation on celestial bodies. Acta Astronautica, 2016, 123, 145-153.	3.2	30
5	German Aerospace Center's advanced robotic technology for future lunar scientific missions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20190574.	3.4	19
6	The MADMAX data set for visualâ€inertial rover navigation on Mars. Journal of Field Robotics, 2021, 38, 833-853.	6.0	18
7	Relocalization With Submaps: Multi-Session Mapping for Planetary Rovers Equipped With Stereo Cameras. IEEE Robotics and Automation Letters, 2020, 5, 580-587.	5.1	15
8	Mobile manipulation for planetary exploration. , 2018, , .		14
9	The LRU Rover for Autonomous Planetary Exploration and Its Success in the SpaceBotCamp Challenge. , 2016, , .		13
10	ARDEAâ€"An MAV with skills for future planetary missions. Journal of Field Robotics, 2020, 37, 515-551.	6.0	11
11	Slip Modeling and Estimation for a Planetary Exploration Rover: Experimental Results from Mt. Etna. , 2018, , .		8
12	Developing technological synergies between deep-sea and space research. Elementa, 2022, 10, .	3.2	8
13	Dynamics of a Tethered Rover on Rough Terrain. Mechanisms and Machine Science, 2017, , 355-361.	0.5	6
14	Challenges of SLAM in Extremely Unstructured Environments: The DLR Planetary Stereo, Solid-State LiDAR, Inertial Dataset. IEEE Robotics and Automation Letters, 2022, 7, 8721-8728.	5.1	6
15	A robotically deployable lunar surface science station and its validation in a Moon-analogue environment. Planetary and Space Science, 2020, 193, 105080.	1.7	5
16	The MMX Rover on Phobos: The Preliminary Design of the DLR Autonomous Navigation Experiment. , 2021, , .		5
17	Design, Execution, and Postmortem Analysis of Prolonged Autonomous Robot Operations. IEEE Robotics and Automation Letters, 2018, 3, 1056-1063.	5.1	4
18	Towards Robust Monocular Visual Odometry for Flying Robots on Planetary Missions. , 2021, , .		3

#	Article	IF	Citations
19	Multi-Modal Loop Closing in Unstructured Planetary Environments with Visually Enriched Submaps. , 2021, , .		2
20	The Network Infrastructure for the ROBEX Demomission Space. , 2018, , .		0
21	Inter-island demonstration of optical communication links in robotic operations. , 2017, , .		0
22	A New Mechanism for the Deployment of Modular Solar Arrays: Kinematic and Static Analysis. Springer Proceedings in Advanced Robotics, 2019, , 372-379.	1.3	0