

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	Developing technological synergies between deep-sea and space research. <i>Elementa</i> , 2022, 10, .	3.2	8
2	Challenges of SLAM in Extremely Unstructured Environments: The DLR Planetary Stereo, Solid-State LiDAR, Inertial Dataset. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 8721-8728.	5.1	6
3	The MADMAX data set for visualâ€inertial rover navigation on Mars. <i>Journal of Field Robotics</i> , 2021, 38, 833-853.	6.0	18
4	The MMX Rover on Phobos: The Preliminary Design of the DLR Autonomous Navigation Experiment. , 2021, , .		5
5	German Aerospace Center's advanced robotic technology for future lunar scientific missions. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20190574.	3.4	19
6	Towards Robust Monocular Visual Odometry for Flying Robots on Planetary Missions. , 2021, , .		3
7	Multi-Modal Loop Closing in Unstructured Planetary Environments with Visually Enriched Submaps. , 2021, , .		2
8	The ARCHES Space-Analogue Demonstration Mission: Towards Heterogeneous Teams of Autonomous Robots for Collaborative Scientific Sampling in Planetary Exploration. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 5315-5322.	5.1	46
9	A robotically deployable lunar surface science station and its validation in a Moon-analogue environment. <i>Planetary and Space Science</i> , 2020, 193, 105080.	1.7	5
10	ARDEAâ€”An MAV with skills for future planetary missions. <i>Journal of Field Robotics</i> , 2020, 37, 515-551.	6.0	11
11	Relocalization With Submaps: Multi-Session Mapping for Planetary Rovers Equipped With Stereo Cameras. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 580-587.	5.1	15
12	Towards Autonomous Planetary Exploration. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2019, 93, 461-494.	3.4	44
13	A New Mechanism for the Deployment of Modular Solar Arrays: Kinematic and Static Analysis. <i>Springer Proceedings in Advanced Robotics</i> , 2019, , 372-379.	1.3	0
14	Design, Execution, and Postmortem Analysis of Prolonged Autonomous Robot Operations. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 1056-1063.	5.1	4
15	Slip Modeling and Estimation for a Planetary Exploration Rover: Experimental Results from Mt. Etna. , 2018, , .		8
16	The Network Infrastructure for the ROBEX Demomission Space. , 2018, , .		0
17	Mobile manipulation for planetary exploration. , 2018, , .		14
18	Dynamics of a Tethered Rover on Rough Terrain. <i>Mechanisms and Machine Science</i> , 2017, , 355-361.	0.5	6

#	ARTICLE	IF	CITATIONS
19	Inter-island demonstration of optical communication links in robotic operations. , 2017, , .		0
20	The LRU Rover for Autonomous Planetary Exploration and Its Success in the SpaceBotCamp Challenge. , 2016, , .		13
21	A modular cable robot for inspection and light manipulation on celestial bodies. Acta Astronautica, 2016, 123, 145-153.	3.2	30
22	Dexhand: A Space qualified multi-fingered robotic hand. , 2011, , .		30