

Mark Maimone

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

2,084
citations

516561

16
h-index

752573

20
g-index

26
all docs

26
docs citations

26
times ranked

1658
citing authors

#	ARTICLE	IF	CITATIONS
1	Two years of Visual Odometry on the Mars Exploration Rovers. Journal of Field Robotics, 2007, 24, 169-186.	3.2	519
2	Rover navigation using stereo ego-motion. Robotics and Autonomous Systems, 2003, 43, 215-229.	3.0	208
3	Autonomy for Mars Rovers: Past, Present, and Future. Computer, 2008, 41, 44-50.	1.2	196
4	Computer Vision on Mars. International Journal of Computer Vision, 2007, 75, 67-92.	10.9	159
5	Visual Odometry on the Mars Exploration Rovers. , 0, , .		130
6	Visual odometry on the Mars exploration rovers - a tool to ensure accurate driving and science imaging. IEEE Robotics and Automation Magazine, 2006, 13, 54-62.	2.2	125
7	The Mars Science Laboratory Engineering Cameras. Space Science Reviews, 2012, 170, 77-93.	3.7	119
8	Mars Science Laboratory Curiosity Rover Megaripple Crossings up to Sol 710 in Gale Crater. Journal of Field Robotics, 2017, 34, 495-518.	3.2	82
9	Traverse Performance Characterization for the Mars Science Laboratory Rover. Journal of Field Robotics, 2013, 30, 835-846.	3.2	77
10	Initial Results of Rover Localization and Topographic Mapping for the 2003 Mars Exploration Rover Mission. Photogrammetric Engineering and Remote Sensing, 2005, 71, 1129-1142.	0.3	72
11	Risk-aware planetary rover operation: Autonomous terrain classification and path planning. , 2015, , .		59
12	Tradeoffs Between Directed and Autonomous Driving on the Mars Exploration Rovers. International Journal of Robotics Research, 2007, 26, 91-104.	5.8	56
13	Developing Nomad for robotic exploration of the Atacama Desert. Robotics and Autonomous Systems, 1999, 26, 127-148.	3.0	45
14	Spirit rover localization and topographic mapping at the landing site of Gusev crater, Mars. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	36
15	Driving Curiosity: Mars Rover Mobility Trends During the First Seven Years. , 2020, , .		31
16	Terrain-adaptive wheel speed control on the Curiosity Mars rover: Algorithm and flight results. Journal of Field Robotics, 2020, 37, 699-728.	3.2	30
17	Characterization of traverse slippage experienced by Spirit rover on Husband Hill at Gusev crater. Journal of Geophysical Research, 2008, 113, .	3.3	22
18	Mars curiosity rover mobility trends during the first 7 years. Journal of Field Robotics, 2021, 38, 759-800.	3.2	21

#	ARTICLE	IF	CITATIONS
19	Mars exploration rover engineering cameras. , 2001, , .		19
20	Traction control design and integration onboard the Mars science laboratory curiosity rover. , 2018, , .		17
21	Opportunity rover localization and topographic mapping at the landing site of Meridiani Planum, Mars. Journal of Geophysical Research, 2007, 112, .	3.3	16
22	Title is missing!. Autonomous Robots, 1999, 7, 119-130.	3.2	6
23	A look back, part II: The drilling campaign of the Curiosity rover during the Mars Science Laboratory's second and third martian years. Icarus, 2020, 350, 113885.	1.1	4
24	Integration of an Arm Kinematics Hot Patch Onboard the Curiosity Rover. , 2021, , .		2
25	Performance Characterization of a Rover Navigation Algorithm Using Large-Scale Simulation. Scientific Programming, 2007, 15, 95-105.	0.5	1