Simon Lacroix

List of Publications by Year
in descending order

24 papers	913 citations	1039880 9 h-index	1125617 13 g-index
26 all docs	26 docs citations	26 times ranked	949 citing authors

#	Article	IF	Citations
1	Vision-Based SLAM: Stereo and Monocular Approaches. International Journal of Computer Vision, 2007, 74, 343-364.	10.9	204
2	Multi-robot target detection and tracking: taxonomy and survey. Autonomous Robots, 2016, 40, 729-760.	3.2	183
3	Autonomous Rover Navigation on Unknown Terrains: Functions and Integration. International Journal of Robotics Research, 2002, 21, 917-942.	5.8	145
4	Monocular-vision based SLAM using Line Segments. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	82
5	Large scale multiple robot visual mapping with heterogeneous landmarks in semi-structured terrain. Robotics and Autonomous Systems, 2011, 59, 654-674.	3.0	59
6	Simulating Complex Robotic Scenarios with MORSE. Lecture Notes in Computer Science, 2012, , 197-208.	1.0	43
7	Decisional autonomy of planetary rovers. Journal of Field Robotics, 2007, 24, 559-580.	3.2	39
8	Robust Visual Place Recognition with Graph Kernels. , 2016, , .		33
9	Probabilistic place recognition with covisibility maps. , 2013, , .		25
10	Building Location Models for Visual Place Recognition. International Journal of Robotics Research, 2016, 35, 334-356.	5.8	22
11	Adaptive sampling of cumulus clouds with UAVs. Autonomous Robots, 2018, 42, 491-512.	3.2	18
12	Monitoring the evolution of clouds with UAVs. , 2016, , .		16
13	Flight patterns for clouds exploration with a fleet of UAVs. , 2019, , .		8
14	Event-driven loop closure in multi-robot mapping. , 2009, , .		7
15	Experimental flights of adaptive patterns for cloud exploration with UAVs. , 2020, , .		6
16	ROAR: Resource oriented agent architecture for the autonomy of robots. , 2011, , .		5
17	An information-driven navigation strategy for autonomous navigation in unknown environments. , 2011, , .		3
18	Editorial: For the JFR special issue on â€œMultiple collaborative field robotsâ€• Journal of Field Robotics, 2012, 29, 687-688.	3.2	2

#	Article	IF	Citations
19	Managing environment models in multi-robot teams. , 2016, , .		2
20	Selection and Monitoring of Navigation Modes for an Autonomous Rover. , 2008, , 121-130.		2
21	Field report: Deployment of a fleet of drones for cloud exploration. International Journal of Micro Air Vehicles, 2022, 14, 175682932110708.	1.0	2
22	Failure anticipation in pursuit-evasion. , 0, , .		1
23	Use of large-eddy simulations to design an adaptive sampling strategy to assess cumulus cloud heterogeneities by remotely piloted aircraft. Atmospheric Measurement Techniques, 2022, 15, 335-352.	1.2	1
24	Framework for multiagent ocean monitoring: dynamic environment and reactive policy. , 2021, , .		0