

Paul T Furgale

List of Publications by Year in descending order

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42
papers

3,538
citations

471509

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24
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43
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43
docs citations

43
times ranked

2520
citing authors

#	ARTICLE	IF	CITATIONS
1	Driving on Point Clouds: Motion Planning, Trajectory Optimization, and Terrain Assessment in Generic Nonplanar Environments. <i>Journal of Field Robotics</i> , 2017, 34, 940-984.	6.0	98
2	3D visual perception for self-driving cars using a multi-camera system: Calibration, mapping, localization, and obstacle detection. <i>Image and Vision Computing</i> , 2017, 68, 14-27.	4.5	147
3	Summary Maps for Lifelong Visual Localization. <i>Journal of Field Robotics</i> , 2016, 33, 561-590.	6.0	73
4	Into Darkness: Visual Navigation Based on a Lidar-Intensity-Image Pipeline. <i>Springer Tracts in Advanced Robotics</i> , 2016, , 487-504.	0.4	15
5	Continuous-Time Estimation of Attitude Using B-Splines on Lie Groups. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 242-261.	2.8	17
6	Online self-calibration for robotic systems. <i>International Journal of Robotics Research</i> , 2016, 35, 357-380.	8.5	27
7	Lighting-Invariant Adaptive Route Following Using Iterative Closest Point Matching. <i>Journal of Field Robotics</i> , 2015, 32, 534-564.	6.0	33
8	Continuous-time batch trajectory estimation using temporal basis functions. <i>International Journal of Robotics Research</i> , 2015, 34, 1688-1710.	8.5	49
9	Keyframe-based visual-inertial odometry using nonlinear optimization. <i>International Journal of Robotics Research</i> , 2015, 34, 314-334.	8.5	1,224
10	Leveraging Image-based Localization for Infrastructure-based Calibration of a Multi-camera Rig. <i>Journal of Field Robotics</i> , 2015, 32, 775-802.	6.0	32
11	Long-term 3D map maintenance in dynamic environments. , 2014, , .		108
12	Spatio-temporal laser to visual/inertial calibration with applications to hand-held, large scale scanning. , 2014, , .		16
13	Infrastructure-based calibration of a multi-camera rig. , 2014, , .		35
14	OpenGV: A unified and generalized approach to real-time calibrated geometric vision. , 2014, , .		95
15	Unified temporal and spatial calibration for multi-sensor systems. , 2013, , .		439
16	Self-supervised calibration for robotic systems. , 2013, , .		75
17	Toward automated driving in cities using close-to-market sensors: An overview of the V-Charge Project. , 2013, , .		85
18	Towards lighting-invariant visual navigation: An appearance-based approach using scanning laser-rangefinders. <i>Robotics and Autonomous Systems</i> , 2013, 61, 836-852.	5.1	18

#	ARTICLE	IF	CITATIONS
19	Gaussian Process Gauss-Newton for non-parametric simultaneous localization and mapping. International Journal of Robotics Research, 2013, 32, 507-525.	8.5	43
20	Using multi-camera systems in robotics: Efficient solutions to the NPNP problem. , 2013, , .		53
21	Rolling Shutter Camera Calibration. , 2013, , .		91
22	Lighting-invariant Visual Teach and Repeat Using Appearance-based Lidar. Journal of Field Robotics, 2013, 30, 254-287.	6.0	34
23	Evaluation of fisheye-camera based visual multi-session localization in a real-world scenario. , 2013, , .		2
24	Exploiting Reusable Paths in Mobile Robotics: Benefits and Challenges for Long-term Autonomy. , 2012, , .		7
25	The Devon Island rover navigation dataset. International Journal of Robotics Research, 2012, 31, 707-713.	8.5	48
26	Continuous-time batch estimation using temporal basis functions. , 2012, , .		145
27	Gaussian Process Gauss-Newton: Non-Parametric State Estimation. , 2012, , .		18
28	Visual Teach and Repeat using appearance-based lidar. , 2012, , .		25
29	Field testing of visual odometry aided by a sun sensor and inclinometer. Journal of Field Robotics, 2012, 29, 426-444.	6.0	28
30	Visual odometry aided by a sun sensor and inclinometer. , 2011, , .		19
31	Sun Sensor Navigation for Planetary Rovers: Theory and Field Testing. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 1631-1647.	4.7	33
32	Pose estimation using linearized rotations and quaternion algebra. Acta Astronautica, 2011, 68, 101-112.	3.2	56
33	Field testing of a rover guidance, navigation, and control architecture to support a ground-ice prospecting mission to Mars. Robotics and Autonomous Systems, 2011, 59, 472-488.	5.1	12
34	Towards appearance-based methods for lidar sensors. , 2011, , .		29
35	Field testing of robotic technologies to support ground ice prospecting in martian polygonal terrain. Planetary and Space Science, 2010, 58, 671-681.	1.7	9
36	Long-range rover localization by matching LIDAR scans to orbital elevation maps. Journal of Field Robotics, 2010, 27, 344-370.	6.0	40

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37	Visual teach and repeat for long-range rover autonomy. Journal of Field Robotics, 2010, 27, 534-560.	6.0	195
38	Field Testing of an Integrated Surface/Subsurface Modeling Technique for Planetary Exploration. International Journal of Robotics Research, 2010, 29, 1529-1549.	8.5	17
39	Stereo mapping and localization for long-range path following on rough terrain. , 2010, , .		22
40	Visual path following on a manifold in unstructured three-dimensional terrain. , 2010, , .		4
41	Rover-Based Surface and Subsurface Modeling for Planetary Exploration. Springer Tracts in Advanced Robotics, 2010, , 499-508.	0.4	3
42	Sun sensing for planetary rover navigation. , 2009, , .		14