

AndrÃ© Silva Aguiar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/913644/publications.pdf>

Version: 2024-02-01

16
papers

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1163117

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127
citing authors

#	ARTICLE	IF	CITATIONS
1	Localization and Mapping for Robots in Agriculture and Forestry: A Survey. <i>Robotics</i> , 2020, 9, 97.	3.5	60
2	Grape Bunch Detection at Different Growth Stages Using Deep Learning Quantized Models. <i>Agronomy</i> , 2021, 11, 1890.	3.0	35
3	Vineyard trunk detection using deep learning “ An experimental device benchmark. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105535.	7.7	33
4	Visual Trunk Detection Using Transfer Learning and a Deep Learning-Based Coprocessor. <i>IEEE Access</i> , 2020, 8, 77308-77320.	4.2	30
5	Occupancy Grid and Topological Maps Extraction from Satellite Images for Path Planning in Agricultural Robots. <i>Robotics</i> , 2020, 9, 77.	3.5	21
6	Bringing Semantics to the Vineyard: An Approach on Deep Learning-Based Vine Trunk Detection. <i>Agriculture (Switzerland)</i> , 2021, 11, 131.	3.1	18
7	Localization and Mapping on Agriculture Based on Point-Feature Extraction and Semiplanes Segmentation From 3D LiDAR Data. <i>Frontiers in Robotics and AI</i> , 2022, 9, 832165.	3.2	11
8	Particle filter refinement based on clustering procedures for high-dimensional localization and mapping systems. <i>Robotics and Autonomous Systems</i> , 2021, 137, 103725.	5.1	10
9	A Camera to LiDAR calibration approach through the optimization of atomic transformations. <i>Expert Systems With Applications</i> , 2021, 176, 114894.	7.6	8
10	FAST-FUSION: An Improved Accuracy Omnidirectional Visual Odometry System with Sensor Fusion and GPU Optimization for Embedded Low Cost Hardware. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5516.	2.5	6
11	ATOM: A general calibration framework for multi-modal, multi-sensor systems. <i>Expert Systems With Applications</i> , 2022, 207, 118000.	7.6	6
12	Monocular Visual Odometry Benchmarking and Turn Performance Optimization. , 2019, , .		3
13	Measuring Canopy Geometric Structure Using Optical Sensors Mounted on Terrestrial Vehicles: A Case Study in Vineyards. <i>Agriculture (Switzerland)</i> , 2021, 11, 208.	3.1	3
14	Robot navigation in vineyards based on the visual vanish point concept. , 2021, , .		3
15	Autonomous Robot Visual-Only Guidance in Agriculture Using Vanishing Point Estimation. <i>Lecture Notes in Computer Science</i> , 2021, , 3-15.	1.3	2
16	Monocular Visual Odometry Using Fisheye Lens Cameras. <i>Lecture Notes in Computer Science</i> , 2019, , 319-330.	1.3	2