Marcel Tresanchez

List of Publications by Year
in descending order

50 papers	1,326 citations	430754 18 h-index	345118 36 g-index
53 all docs	53 docs citations	53 times ranked	1600 citing authors

#	Article	IF	Citations
1	Measuring Gas Concentration and Wind Intensity in a Turbulent Wind Tunnel with a Mobile Robot. Journal of Sensors, 2016, 2016, 1-8.	0.6	409
2	A Proposal for Automatic Fruit Harvesting by Combining a Low Cost Stereovision Camera and a Robotic Arm. Sensors, 2014, 14, 11557-11579.	2.1	84
3	Real-Time Tree-Foliage Surface Estimation Using a Ground Laser Scanner. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1377-1383.	2.4	61
4	Measuring Gait Using a Ground Laser Range Sensor. Sensors, 2009, 9, 9133-9146.	2.1	57
5	Sensitivity of tree volume measurement to trajectory errors from a terrestrial LIDAR scanner. Agricultural and Forest Meteorology, 2010, 150, 1420-1427.	1.9	57
6	Vineyard Yield Estimation Based on the Analysis of High Resolution Images Obtained with Artificial Illumination at Night. Sensors, 2015, 15, 8284-8301.	2.1	56
7	Using the image acquisition capabilities of the optical mouse sensor to build an absolute rotary encoder. Sensors and Actuators A: Physical, 2010, 157, 161-167.	2.0	51
8	Counting red grapes in vineyards by detecting specular spherical reflection peaks in RGB images obtained at night with artificial illumination. Computers and Electronics in Agriculture, 2014, 108, 105-111.	3.7	45
9	Assistant Personal Robot (APR): Conception and Application of a Tele-Operated Assisted Living Robot. Sensors, 2016, 16, 610.	2.1	40
10	Definition of Linear Color Models in the RGB Vector Color Space to Detect Red Peaches in Orchard Images Taken under Natural Illumination. Sensors, 2012, 12, 7701-7718.	2.1	39
11	The optical mouse sensor as an incremental rotary encoder. Sensors and Actuators A: Physical, 2009, 155, 73-81.	2.0	36
12	Design, Implementation and Validation of the Three-Wheel Holonomic Motion System of the Assistant Personal Robot (APR). Sensors, 2016, 16, 1658.	2.1	36
13	Modeling floor-cleaning coverage performances of some domestic mobile robots in a reduced scenario. Robotics and Autonomous Systems, 2010, 58, 37-45.	3.0	34
14	Bioinspired Electronic White Cane Implementation Based on a LIDAR, a Tri-Axial Accelerometer and a Tactile Belt. Sensors, 2010, 10, 11322-11339.	2.1	34
15	Using the Optical Mouse Sensor as a Two-Euro Counterfeit Coin Detector. Sensors, 2009, 9, 7083-7096.	2.1	28
16	Project-Based Learning Example: Controlling an Educational Robotic Arm With Computer Vision. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2013, 8, 135-142.	0.7	25
17	Two-Dimensional Radial Laser Scanning for Circular Marker Detection and External Mobile Robot Tracking. Sensors, 2012, 12, 16482-16497.	2.1	22
18	Ambient Intelligence Application Based on Environmental Measurements Performed with an Assistant Mobile Robot. Sensors, 2014, 14, 6045-6055.	2.1	20

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19	An image processing method for in-line nectarine variety verification based on the comparison of skin feature histogram vectors. Computers and Electronics in Agriculture, 2014, 102, 112-119.	3.7	18
20	Design and Implementation of a Biomimetic Turtle Hydrofoil for an Autonomous Underwater Vehicle. Sensors, 2011, 11, 11168-11187.	2.1	17
21	Measuring Oscillating Walking Paths with a LIDAR. Sensors, 2011, 11, 5071-5086.	2.1	15
22	Implementation of a robust absolute virtual head mouse combining face detection, template matching and optical flow algorithms. Telecommunication Systems, 2013, 52, 1479-1489.	1.6	15
23	Measuring yarn diameter using inexpensive optical sensors. Procedia Engineering, 2010, 5, 236-239.	1.2	14
24	Measurement of Vibrations in Two Tower-Typed Assistant Personal Robot Implementations with and without a Passive Suspension System. Sensors, 2017, 17, 1122.	2.1	13
25	Characterization of a Low-Cost Optical Flow Sensor When Using an External Laser as a Direct Illumination Source. Sensors, 2011, 11, 11856-11870.	2.1	11
26	An Embedded Real-Time Red Peach Detection System Based on an OV7670 Camera, ARM Cortex-M4 Processor and 3D Look-Up Tables. Sensors, 2012, 12, 14129-14143.	2.1	10
27	Optical Mouse Sensor for Eye Blink Detection and Pupil Tracking: Application in a Low-Cost Eye-Controlled Pointing Device. Journal of Sensors, 2019, 2019, 1-19.	0.6	10
28	Chemical Source Localization Fusing Concentration Information in the Presence of Chemical Background Noise. Sensors, 2017, 17, 904.	2.1	9
29	Automatic Supervision of Temperature, Humidity, and Luminance with an Assistant Personal Robot. Journal of Sensors, 2017, 2017, 1-7.	0.6	8
30	Simple and Robust Implementation of a Relative Virtual Mouse Controlled by Head Movements. , 2008, , .		7
31	A proposal of low-cost and low-power embedded wireless image sensor node for IoT applications. Procedia Computer Science, 2018, 134, 99-106.	1.2	7
32	A Mobile Robot Agent for Gas Leak Source Detection. Advances in Intelligent Systems and Computing, 2014, , 19-25.	0.5	7
33	Optimization of the virtual mouse HeadMouse to foster its classroom use by children with physical disabilities. Advances in Distributed Computing and Artificial Intelligence Journal, 2014, 2, 01-08.	1.1	5
34	Difficulties on Tree Volume Measurement from a Ground Laser Scanner. , 2008, , .		4
35	First characterization results obtained in a wind tunnel designed for indoor gas source detection. , 2015, , .		4
36	Development of a High Mobility Assistant Personal Robot for Home Operation. Advances in Intelligent Systems and Computing, 2015, , 65-73.	0.5	4

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37	Estimating a room size using encoders and collision detectors: application to a cleaning mobile robot. , 2007, , .		2
38	Experimental determination of the hydrofoil's angle of attack in the case of a turtle-like Autonomous Underwater Vehicle. , 2011, , .		1
39	Preliminary study on color based nectarine variety classification. , 2012, , .		1
40	Preliminary results on measuring gas and wind intensity with a mobile robot in an indoor area. , 2014, , .		1
41	Experimental Characterization of the Twin-Eye Laser Mouse Sensor. Journal of Sensors, 2016, 2016, 1-8.	0.6	1
42	Collision Avoidance System with Deceleration Control Applied to an Assistant Personal Robot. Advances in Intelligent Systems and Computing, 2015, , 227-228.	0.5	1
43	A Proposal of a Multi-agent System Implementation for the Control of an Assistant Personal Robot. Advances in Intelligent Systems and Computing, 2016, , 171-179.	0.5	1
44	Evaluation of the Color-Based Image Segmentation Capabilities of a Compact Mobile Robot Agent Based on Google Android Smartphone. Advances in Intelligent Systems and Computing, 2013, , 25-32.	0.5	1
45	Corridor Gas-Leak Localization Using a Mobile Robot with a Photo Ionization Detector Sensor. Sensor Letters, 2014, 12, 974-977.	0.4	1
46	Preliminary study of pupil detection and tracking with low cost optical flow sensors. , 2012, , .		0
47	A Proposal to Combine Depth Information from LIDAR and RGB-D Sensors in an Assistant Personal Robot. Advances in Intelligent Systems and Computing, 2016, , 359-361.	0.5	0
48	Implementation of a Compact Wearable Temperature, Pressure, Humidity and Gas Sensing Device. Advances in Intelligent Systems and Computing, 2020, , 825-830.	0.5	0
49	Development of a Virtual Humanoid Model Using the Denavit-Hartenberg Parameters as a Base for Visual Feedback Applications. Lecture Notes in Electrical Engineering, 2011, , 639-646.	0.3	0
50	Preliminary Application of an Assistant Personal Robot as an Ambient Monitoring Tool. Advances in Intelligent Systems and Computing, 2017, , 25-31.	0.5	0