

Primo Zingaretti

List of Publications by Year in descending order

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Version: 2024-02-01

155
papers

1,969
citations

361413

20
h-index

361022

35
g-index

160
all docs

160
docs citations

160
times ranked

1659
citing authors

#	ARTICLE	IF	CITATIONS
1	A Vision-Based Guidance System for UAV Navigation and Safe Landing using Natural Landmarks. Journal of Intelligent and Robotic Systems: Theory and Applications, 2010, 57, 233-257.	3.4	165
2	Complete classification of raw LIDAR data and 3D reconstruction of buildings. Pattern Analysis and Applications, 2006, 8, 357-374.	4.6	119
3	Performance evaluation of automated approaches to building detection in multi-source aerial data. ISPRS Journal of Photogrammetry and Remote Sensing, 2010, 65, 123-133.	11.1	89
4	Robust and affordable retail customer profiling by vision and radio beacon sensor fusion. Pattern Recognition Letters, 2016, 81, 30-40.	4.2	66
5	Hybrid object-based approach for land use/land cover mapping using high spatial resolution imagery. International Journal of Geographical Information Science, 2011, 25, 1025-1043.	4.8	58
6	A Visual Global Positioning System for Unmanned Aerial Vehicles Used in Photogrammetric Applications. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 61, 157-168.	3.4	47
7	Mechatronic System to Help Visually Impaired Users During Walking and Running. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 649-660.	8.0	47
8	Automatic Faults Detection of Photovoltaic Farms: solAlr, a Deep Learning-Based System for Thermal Images. Energies, 2020, 13, 6496.	3.1	47
9	Deep Learning for Soil and Crop Segmentation from Remotely Sensed Data. Remote Sensing, 2019, 11, 1859.	4.0	44
10	Fast chain coding of region boundaries. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1998, 20, 407-415.	13.9	37
11	Shopper Analytics: A Customer Activity Recognition System Using a Distributed RGB-D Camera Network. Lecture Notes in Computer Science, 2014, , 146-157.	1.3	35
12	Mobile robot for retail surveying and inventory using visual and textual analysis of monocular pictures based on deep learning. , 2017, , .		34
13	Robust real-time detection of an underwater pipeline. Engineering Applications of Artificial Intelligence, 1998, 11, 257-268.	8.1	33
14	Robotic retail surveying by deep learning visual and textual data. Robotics and Autonomous Systems, 2019, 118, 179-188.	5.1	32
15	Feature group matching for appearance-based localization. , 2008, , .		31
16	Convolutional Networks for Semantic Heads Segmentation using Top-View Depth Data in Crowded Environment. , 2018, , .		31
17	Person Re-Identification with RGB-D Camera in Top-View Configuration through Multiple Nearest Neighbor Classifiers and Neighborhood Component Features Selection. Sensors, 2018, 18, 3471.	3.8	27
18	People Detection and Tracking from an RGB-D Camera in Top-View Configuration: Review of Challenges and Applications. Lecture Notes in Computer Science, 2017, , 207-218.	1.3	26

#	ARTICLE	IF	CITATIONS
19	Making Visible the Invisible. Augmented Reality Visualization for 3D Reconstructions of Archaeological Sites. Lecture Notes in Computer Science, 2015, , 25-37.	1.3	26
20	Visual and Textual Sentiment Analysis of Brand-Related Social Media Pictures Using Deep Convolutional Neural Networks. Lecture Notes in Computer Science, 2017, , 402-413.	1.3	24
21	Customersâ€™ Activity Recognition in Intelligent Retail Environments. Lecture Notes in Computer Science, 2013, , 509-516.	1.3	24
22	Integrating elevation data and multispectral high-resolution images for an improved hybrid Land Use/Land Cover mapping. European Journal of Remote Sensing, 2017, 50, 1-17.	3.5	23
23	Embedded Multisensor System for Safe Point-to-Point Navigation of Impaired Users. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 3543-3555.	8.0	22
24	Low cost embedded system for increasing retail environment intelligence. , 2015, , .		22
25	Deep understanding of shopper behaviours and interactions using RGB-D vision. Machine Vision and Applications, 2020, 31, 1.	2.7	22
26	Interoperability issues among smart home technological frameworks. , 2014, , .		21
27	Unmanned Ground and Aerial Vehicles in extended range indoor and outdoor missions. , 2014, , .		21
28	High-resolution mapping of river and estuary areas by using unmanned aerial and surface platforms. , 2015, , .		21
29	Smart maintenance of riverbanks using a standard data layer and Augmented Reality. Computers and Geosciences, 2016, 95, 67-74.	4.2	21
30	Shelf space re-allocation for out of stock reduction. Computers and Industrial Engineering, 2017, 106, 32-40.	6.3	21
31	Whistland: An Augmented Reality Crowd-Mapping System for Civil Protection and Emergency Management. ISPRS International Journal of Geo-Information, 2017, 6, 41.	2.9	20
32	Advanced Interaction with Paintings by Augmented Reality and High Resolution Visualization: A Real Case Exhibition. Lecture Notes in Computer Science, 2015, , 38-50.	1.3	20
33	Information Management for Intelligent Retail Environment: The Shelf Detector System. Information (Switzerland), 2014, 5, 255-271.	2.9	19
34	Visual Based Landing for an Unmanned Quadrotor. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 84, 511-528.	3.4	19
35	A Framework for Simulation and Testing of UAVs in Cooperative Scenarios. Journal of Intelligent and Robotic Systems: Theory and Applications, 2009, 54, 307-329.	3.4	17
36	Vision-based autonomous navigation and landing of an unmanned aerial vehicle using natural landmarks. , 2009, , .		17

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37	Road pavement crack automatic detection by MMS images. , 2013, , .		17
38	Embedded Vision Sensor Network for Planogram Maintenance in Retail Environments. Sensors, 2015, 15, 21114-21133.	3.8	17
39	A framework for simulations and tests of mobile robotics tasks. , 2006, , .		16
40	Safe flying for an UAV helicopter. , 2007, , .		16
41	Non-Contact Monitoring of Preterm Infants Using RGB-D Camera. , 2015, , .		16
42	Person Re-identification Dataset with RGB-D Camera in a Top-View Configuration. Lecture Notes in Computer Science, 2017, , 1-11.	1.3	16
43	Appearance based robotics. IEEE Robotics and Automation Magazine, 2006, 13, 59-68.	2.0	15
44	Vision and sonar sensor fusion for mobile robot localization in aliased environments. , 2006, , .		15
45	Smart Vision System for Shelf Analysis in Intelligent Retail Environments. , 2013, , .		15
46	HDOMO: Smart Sensor Integration for an Active and Independent Longevity of the Elderly. Sensors, 2017, 17, 2610.	3.8	15
47	Real-time inspection by submarine images. Journal of Electronic Imaging, 1996, 5, 432.	0.9	14
48	Pixel, object and hybrid classification comparisons. Journal of Spatial Science, 2010, 55, 43-54.	1.5	14
49	Implementation of a tracking system based on UWB technology in a retail environment. , 2016, , .		14
50	A vision based algorithm for active robot localization. , 0, , .		13
51	Mo.Se.: Mosaic image segmentation based on deep cascading learning. Virtual Archaeology Review, 2021, 12, 25.	1.9	12
52	Deep Learning Approaches for Fashion Knowledge Extraction From Social Media: A Review. IEEE Access, 2022, 10, 1545-1576.	4.2	12
53	<title>Imaging approach to real-time tracking of submarine pipeline</title>. , 1996, , .		11
54	Human activity analysis for in-home fall risk assessment. , 2015, , .		11

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55	A Decision Support System for Diabetes Chronic Care Models Based on General Practitioner Engagement and EHR Data Sharing. IEEE Journal of Translational Engineering in Health and Medicine, 2020, 8, 1-12.	3.7	11
56	Automatic analysis of visual data in submarine pipeline inspection. , 0, , .		9
57	Automatic road object extraction from Mobile Mapping Systems. , 2012, , .		9
58	Energy Harvesting for Smart Shoes: A Real Life Application. , 2013, , .		9
59	FEATURE GROUP MATCHING: A NOVEL METHOD TO FILTER OUT INCORRECT LOCAL FEATURE MATCHINGS. International Journal of Pattern Recognition and Artificial Intelligence, 2014, 28, 1450012.	1.2	9
60	Automatic Classification for Anti Mixup Events in Advanced Manufacturing System. , 2015, , .		9
61	A multi/hyper-spectral imaging system for land use/land cover using unmanned aerial systems. , 2016, , .		9
62	Cyberarchaeology: Improved Way Findings for Archaeological Parks Through Mobile Augmented Reality. Lecture Notes in Computer Science, 2016, , 172-185.	1.3	9
63	Pervasive System for Consumer Behaviour Analysis in Retail Environments. Lecture Notes in Computer Science, 2017, , 12-23.	1.3	9
64	<title>Retina vascular network recognition</title>. , 1993, , .		8
65	An efficient similarity metric for omnidirectional vision sensors. Robotics and Autonomous Systems, 2006, 54, 750-757.	5.1	8
66	SIT-REM: An Interoperable and Interactive Web Geographic Information System for Fauna, Flora and Plant Landscape Data Management. ISPRS International Journal of Geo-Information, 2014, 3, 853-867.	2.9	8
67	Route following based on adaptive visual landmark matching. Robotics and Autonomous Systems, 1998, 25, 177-184.	5.1	7
68	A Winner Takes All mechanism for automatic object extraction from multi-source data. , 2009, , .		7
69	Efficient Traffic Simulation Using Busses as Active Sensor Network. , 2011, , .		7
70	Point to point navigation for people with mobility impairments. , 2014, , .		7
71	An automatic analysis of shoppers behaviour using a distributed RGB-D cameras system. , 2014, , .		7
72	Security issues for data sharing and service interoperability in eHealth systems: The Nu.Sa. test bed. , 2014, , .		7

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73	RGBD Sensors for Human Activity Detection in AAL Environments. , 2014, , 127-135.		7
74	Sharing health data among general practitioners: The Nu.Sa. project. International Journal of Medical Informatics, 2019, 129, 267-274.	3.3	7
75	Autonomous safe landing of a vision guided helicopter. , 2010, , .		6
76	Development of a low-cost Unmanned Surface Vehicle for digital survey. , 2015, , .		6
77	Optimal stock control and procurement by reusing of obsolescences in manufacturing. Computers and Industrial Engineering, 2020, 148, 106697.	6.3	6
78	Semantic 3D Object Maps for Everyday Robotic Retail Inspection. Lecture Notes in Computer Science, 2019, , 263-274.	1.3	6
79	An Intelligent RGB-D Video System for Bus Passenger Counting. Advances in Intelligent Systems and Computing, 2017, , 473-484.	0.6	6
80	HMM-based Activity Recognition with a Ceiling RGB-D Camera. , 2017, , .		6
81	A Hybrid Approach to Land Cover Classification from Multi Spectral Images. Lecture Notes in Computer Science, 2009, , 500-508.	1.3	6
82	Landmark matching in a varying environment. , 0, , .		5
83	A comprehensive approach to image-contrast enhancement. , 0, , .		5
84	Prototype UAV helicopter working in cooperative environments. , 2007, , .		5
85	A simulation framework for coalition formation of Unmanned Aerial Vehicles. , 2011, , .		5
86	Multi-Point Stereovision System for Contactless Dimensional Measurements. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 81, 273-284.	3.4	5
87	Improving Variable Rate Treatments by Integrating Aerial and Ground Remotely Sensed Data. , 2018, , .		5
88	Automatic Mosaic Digitalization: a Deep Learning approach to tessera segmentation. , 2018, , .		5
89	A Framework for Simulation and Testing of UAVs in Cooperative Scenarios. , 2008, , 307-329.		5
90	The camerano study on hypertension: The problem of arterial hypertension in the elderly. Archives of Gerontology and Geriatrics, 1992, 15, 17-26.	3.0	4

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91	Underwater imaging system to support ROV guidance. , 0, , .		4
92	Road Change Detection from Multi-Spectral Aerial Data. , 2010, , .		4
93	A framework based on vision sensors for the automatic management of exchange parking areas. , 2010, , .		4
94	Advanced integration of multimedia assistive technologies: A prospective outlook. , 2014, , .		4
95	GPU acceleration of feature extraction and matching algorithms. , 2014, , .		4
96	A stereovision system for dimensional measurements in industrial robotics applications. , 2014, , .		4
97	Analysing human movements at mass events: A novel mobile-based management system based on active beacons and AVM. , 2016, , .		4
98	Soil / crop segmentation from remotely sensed data acquired by Unmanned Aerial System. , 2017, , .		4
99	A methodological approach to fully automated highly accelerated life tests. Microsystem Technologies, 2018, 24, 1401-1411.	2.0	4
100	Challenges of multi/hyper spectral images in precision agriculture applications. IOP Conference Series: Earth and Environmental Science, 2019, 275, 012001.	0.3	4
101	<title>Image sequence recognition</title>. , 1994, , .		3
102	FAST MOBILE ROBOT LOCALIZATION USING LOW COST SENSORS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 358-363.	0.4	3
103	Robot localization using omnidirectional vision in large and dynamic outdoor environments. , 2008, , .		3
104	A cloud-based healthcare infrastructure for medical device integration: The bilirubinometer case study. , 2016, , .		3
105	Design of an interoperable framework with domotic sensors network integration. , 2017, , .		3
106	Design and test of a real-time shelf out-of-stock detector system. Microsystem Technologies, 2018, 24, 1369-1377.	2.0	3
107	On Increasing the Objectiveness of Segmentation Results. , 1999, , 103-112.		3
108	From Simulated to Real Scenarios: A Framework for Multi-UAVs. Lecture Notes in Computer Science, 2008, , 17-28.	1.3	3

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109	A Novel Method for Fast Processing of Large Remote Sensed Image. Lecture Notes in Computer Science, 2013, , 409-418.	1.3	3
110	A PROLOG APPROACH TO IMAGE SEGMENTATION. Applied Artificial Intelligence, 1988, 2, 307-331.	3.2	2
111	Segmentation-suggested geometric scheme. , 1993, , .		2
112	Vision based approach for active selection of robot’s localization action. , 2007, , .		2
113	Robot localization in urban environments using omnidirectional vision sensors and partial heterogeneous apriori knowledge. , 2010, , .		2
114	Coalition Formation for Unmanned Quadrotors. , 2011, , .		2
115	Design and test of a precise mobile GPS tracker. , 2013, , .		2
116	Exposure protocol setup for agro food treatment. Method and system for developing an application for heating in reverberation chamber. , 2015, , .		2
117	Optimal production planning by reusing components. , 2016, , .		2
118	Introduction to the Special Issue on Applications of Mechatronic and Embedded Systems (MESA) in ITS. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 530-532.	8.0	2
119	A Synergic Photometric Stereo and Super Resolution Approach for Optical Inspection. , 2018, , .		2
120	An IoT Solution for Energy Management at Building and District Level. , 2018, , .		2
121	An IoT Edge-Fog-Cloud Architecture for Vision Based Planogram Integrity. , 2019, , .		2
122	People Counting on Low Cost Embedded Hardware During the SARS-CoV-2 Pandemic. Lecture Notes in Computer Science, 2021, , 521-533.	1.3	2
123	An IOT Edge-Fog-Cloud Architecture for Vision Based Pallet Integrity. Lecture Notes in Computer Science, 2019, , 296-306.	1.3	2
124	<title>Decision support system for capillaroscopic images</title>. , 1991, 1450, 178.		1
125	Automatic quantitative analysis of lumbar bone radiographs. , 0, , .		1
126	<title>Quantitative analysis of retinal changes in hypertension</title>. , 1995, 2434, 548.		1

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127	Automatic extraction of LIDAR data classification rules. , 2007, , .		1
128	Visual feature group matching for autonomous robot localization. , 2007, , .		1
129	RoboBuntu: A Linux distribution for mobile robotics. , 2009, , .		1
130	Wireless sensor network for exhausted oil collection management. , 2010, , .		1
131	UAVs Safe Landing Using Range Images. , 2011, , .		1
132	A real-time reliability and durability testing framework. , 2014, , .		1
133	Real time out of shelf detection using embedded sensor network. , 2014, , .		1
134	Accurate modeling of the microwave treatment in reverberating chamber. sanitation of agro food material. , 2015, , .		1
135	Autonomous Helicopter for Surveillance and Security. , 2007, , .		1
136	Particle Clustering to Improve Omnidirectional Localization in Outdoor Environments. , 2009, , .		1
137	A Visual Global Positioning System for Unmanned Aerial Vehicles Used in Photogrammetric Applications. , 2010, , 157-168.		1
138	Evolutionary image segmentation. Lecture Notes in Computer Science, 1997, , 247-254.	1.3	1
139	<title>Robust approach to ocular fundus image analysis</title>. , 1993, 1905, 638.		0
140	Attraction based recognition. , 0, , .		0
141	<title>Model attraction in medical image object recognition</title>. , 1995, , .		0
142	<title>Unauthorized access identification in restricted areas</title>. , 1998, , .		0
143	Image segmentation for appearance-based self-localisation. , 0, , .		0
144	Comparison and fusion of vision and range measurements for robot pose estimation. , 2007, , .		0

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145	Stability maps for really exploitable automatic classification results. , 2009, , .		0
146	LCLU information system for object-oriented nomenclature. , 2010, , .		0
147	Summarization of echo-Doppler videos for computer-aided diagnosis. , 2012, , .		0
148	Energy Harvesting Smart Floor for Indoor People Localization and Tracking. , 2015, , .		0
149	Introduction to the Special Issue on Mechatronic and Embedded Systems and Applications in ITS. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 3479-3481.	8.0	0
150	Current Developments in Robotics and Mobile Machines. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 81, 167-168.	3.4	0
151	Building detection in multi-source aerial data with imbalanced training samples: an approach based on the Bayesian Vector Quantizer. International Journal of Image and Data Fusion, 2017, , 1-25.	1.7	0
152	Mechatronic and Embedded Systems for Robotics and Mobile Machines. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 91, 135-136.	3.4	0
153	Weight Estimation from an RGB-D camera in top-view configuration. , 2021, , .		0
154	Multi-polygonal object tracking. Lecture Notes in Computer Science, 1995, , 465-470.	1.3	0
155	From Artificial Intelligence and Databases to Cognitive Computing: Past and Future Computer Engineering Research at UNIVPM. , 2019, , 101-121.		0