Adriano Mancini

List of Publications by Year
in descending order

132 papers	2,052 citations	331670 21 h-index	345221 36 g-index
139 all docs	139 docs citations	139 times ranked	1897 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	Machine Learning approach for Predictive Maintenance in Industry 4.0. , 2018, , .		123
3	An IMU/UWB/Vision-based Extended Kalman Filter for Mini-UAV Localization in Indoor Environment using 802.15.4a Wireless Sensor Network. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 70, 461-476.	3.4	120
4	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
5	Robust and affordable retail customer profiling by vision and radio beacon sensor fusion. Pattern Recognition Letters, 2016, 81, 30-40.	4.2	66
6	Machine learning-based design support system for the prediction of heterogeneous machine parameters in industry 4.0. Expert Systems With Applications, 2020, 140, 112869.	7.6	61
7	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
8	GIS-based energy-economic model of low temperature geothermal resources: A case study in the Italian Marche region. Renewable Energy, 2011, 36, 2474-2483.	8.9	48
9	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
10	Mechatronic System to Help Visually Impaired Users During Walking and Running. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 649-660.	8.0	47
11	Deep Learning for Soil and Crop Segmentation from Remotely Sensed Data. Remote Sensing, 2019, 11, 1859.	4.0	44
12	Autonomous navigation, landing and recharge of a quadrotor using artificial vision. , 2014, , .		39
13	From knowledge-based to big data analytic model: a novel IoT and machine learning based decision support system for predictive maintenance in Industry 4.0. Journal of Intelligent Manufacturing, 2023, 34, 107-121.	7.3	38
14	Modelling and Forecasting Customer Navigation in Intelligent Retail Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 91, 165-180.	3.4	37
15	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
16	Mobile robot for retail surveying and inventory using visual and textual analysis of monocular pictures based on deep learning. , 2017, , .		34
17	Urban water-energy-food-climate nexus in integrated wastewater and reuse systems: Cyber-physical framework and innovations. Applied Energy, 2021, 298, 117268.	10.1	34
18	Robotic retail surveying by deep learning visual and textual data. Robotics and Autonomous Systems, 2019, 118, 179-188.	5.1	32

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19	Feature group matching for appearance-based localization. , 2008, , .		31
20	A Biased Extended Kalman Filter for Indoor Localization of a Mobile Agent using Low-Cost IMU and UWB Wireless Sensor Network. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 735-740.	0.4	30
21	Mapping Mediterranean Forest Plant Associations and Habitats with Functional Principal Component Analysis Using Landsat 8 NDVI Time Series. Remote Sensing, 2020, 12, 1132.	4.0	25
22	Customersâ€™ Activity Recognition in Intelligent Retail Environments. Lecture Notes in Computer Science, 2013, , 509-516.	1.3	24
23	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
24	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
25	Low cost embedded system for increasing retail environment intelligence. , 2015, , .		22
26	Deep understanding of shopper behaviours and interactions using RGB-D vision. Machine Vision and Applications, 2020, 31, 1.	2.7	22
27	Tourism destination management using sentiment analysis and geo-location information: a deep learning approach. Information Technology and Tourism, 2021, 23, 241-264.	5.8	22
28	Unmanned Ground and Aerial Vehicles in extended range indoor and outdoor missions. , 2014, , .		21
29	High-resolution mapping of river and estuary areas by using unmanned aerial and surface platforms. , 2015, , .		21
30	Smart maintenance of riverbanks using a standard data layer and Augmented Reality. Computers and Geosciences, 2016, 95, 67-74.	4.2	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	Information Management for Intelligent Retail Environment: The Shelf Detector System. Information (Switzerland), 2014, 5, 255-271.	2.9	19
33	Visual Based Landing for an Unmanned Quadrotor. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 84, 511-528.	3.4	19
34	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
35	Vision-based autonomous navigation and landing of an unmanned aerial vehicle using natural landmarks. , 2009, , .		17
36	Road pavement crack automatic detection by MMS images. , 2013, , .		17

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37	Embedded Vision Sensor Network for Planogram Maintenance in Retail Environments. Sensors, 2015, 15, 21114-21133.	3.8	17
38	Robotic platform for deep change detection for rail safety and security. , 2017, , .		17
39	WaterbalANce, a WebApp for Thornthwaiteâ€"Mather Water Balance Computation: Comparison of Applications in Two European Watersheds. Hydrology, 2021, 8, 34.	3.0	17
40	A framework for simulations and tests of mobile robotics tasks. , 2006, , .		16
41	Safe flying for an UAV helicopter. , 2007, , .		16
42	Non-Contact Monitoring of Preterm Infants Using RGB-D Camera. , 2015, , .		16
43	Person Re-identification Dataset with RGB-D Camera in a Top-View Configuration. Lecture Notes in Computer Science, 2017, , 1-11.	1.3	16
44	A Synergic Integration of AIS Data and SAR Imagery to Monitor Fisheries and Detect Suspicious Activities. Sensors, 2021, 21, 2756.	3.8	16
45	Addressing Gaps in Small-Scale Fisheries: A Low-Cost Tracking System. Sensors, 2022, 22, 839.	3.8	16
46	Smart Vision System for Shelf Analysis in Intelligent Retail Environments. , 2013, , .		15
47	A Novel Remote Visual Inspection System for Bridge Predictive Maintenance. Remote Sensing, 2022, 14, 2248.	4.0	15
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	Recognition and Characterization of Forest Plant Communities through Remote-Sensing NDVI Time Series. Diversity, 2020, 12, 313.	1.7	13
51	Water-Energy-Food-Climate Nexus in an Integrated Peri-Urban Wastewater Treatment and Reuse System: From Theory to Practice. Sustainability, 2021, 13, 10952.	3.2	12
52	Human activity analysis for in-home fall risk assessment. , 2015, , .		11
53	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
54	A Machine Learning Approach to Extract Rock Mass Discontinuity Orientation and Spacing, from Laser Scanner Point Clouds. Remote Sensing, 2022, 14, 2365.	4.0	10

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55	Automatic road object extraction from Mobile Mapping Systems. , 2012, , .		9
56	Energy Harvesting for Smart Shoes: A Real Life Application. , 2013, , .		9
57	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
58	Automatic Classification for Anti Mixup Events in Advanced Manufacturing System. , 2015, , .		9
59	A multi/hyper-spectral imaging system for land use/land cover using unmanned aerial systems. , 2016, , .		9
60	Pervasive System for Consumer Behaviour Analysis in Retail Environments. Lecture Notes in Computer Science, 2017, , 12-23.	1.3	9
61	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
62	A Winner Takes All mechanism for automatic object extraction from multi-source data. , 2009, , .		7
63	A Modular Framework for Fast Prototyping of Cooperative Unmanned Aerial Vehicle. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 65, 507-520.	3.4	7
64	Testing of cooperative tasks for Unmanned Aerial and ground platforms. , 2014, , .		7
65	Point to point navigation for people with mobility impairments. , 2014, , .		7
66	RGBD Sensors for Human Activity Detection in AAL Environments. , 2014, , 127-135.		7
67	Sharing health data among general practitioners: The Nu.Sa. project. International Journal of Medical Informatics, 2019, 129, 267-274.	3.3	7
68	AIS data, a mine of information on trawling fleet mobility in the Mediterranean Sea. Marine Policy, 2021, 129, 104571.	3.2	7
69	Continuous Monitoring of Olive Fruit Growth by Automatic Extensimeter in Response to Vapor Pressure Deficit from Pit Hardening to Harvest. Horticulturae, 2021, 7, 349.	2.8	7
70	Autonomous safe landing of a vision guided helicopter. , 2010, , .		6
71	Indoor people localization and tracking using an energy harvesting smart floor. , 2014, , .		6
72	Development of a low-cost Unmanned Surface Vehicle for digital survey. , 2015, , .		6

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73	Semantic 3D Object Maps for Everyday Robotic Retail Inspection. Lecture Notes in Computer Science, 2019, , 263-274.	1.3	6
74	An Intelligent RGB-D Video System for Bus Passenger Counting. Advances in Intelligent Systems and Computing, 2017, , 473-484.	0.6	6
75	A Cloud Computing Architecture to Map Trawling Activities Using Positioning Data. , 2019, , .		6
76	A Hybrid Approach to Land Cover Classification from Multi Spectral Images. Lecture Notes in Computer Science, 2009, , 500-508.	1.3	6
77	Prototype UAV helicopter working in cooperative environments. , 2007, , .		5
78	A simulation framework for coalition formation of Unmanned Aerial Vehicles. , 2011, , .		5
79	Multi-Point Stereovision System for Contactless Dimensional Measurements. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 81, 273-284.	3.4	5
80	Improving Variable Rate Treatments by Integrating Aerial and Ground Remotely Sensed Data. , 2018, , .		5
81	Is There Daily Growth Hysteresis versus Vapor Pressure Deficit in Cherry Fruit?. Horticulturae, 2021, 7, 131.	2.8	5
82	A Framework for Simulation and Testing of UAVs in Cooperative Scenarios. , 2008, , 307-329.		5
83	A Feature Encoding Approach and a Cloud Computing Architecture to Map Fishing Activities. , 2021, , .		5
84	Road Change Detection from Multi-Spectral Aerial Data. , 2010, , .		4
85	GPU acceleration of feature extraction and matching algorithms. , 2014, , .		4
86	A stereovision system for dimensional measurements in industrial robotics applications. , 2014, , .		4
87	Analysing human movements at mass events: A novel mobile-based management system based on active beacons and AVM. , 2016, , .		4
88	Soil / crop segmentation from remotely sensed data acquired by Unmanned Aerial System. , 2017, , .		4
89	A methodological approach to fully automated highly accelerated life tests. Microsystem Technologies, 2018, 24, 1401-1411.	2.0	4
90	Challenges of multi/hyper spectral images in precision agriculture applications. IOP Conference Series: Earth and Environmental Science, 2019, 275, 012001.	0.3	4

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91	Functional Analysis for Habitat Mapping in a Special Area of Conservation Using Sentinel-2 Time-Series Data. Remote Sensing, 2022, 14, 1179.	4.0	4
92	FAST MOBILE ROBOT LOCALIZATION USING LOW COST SENSORS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 358-363.	0.4	3
93	Robot localization using omnidirectional vision in large and dynamic outdoor environments. , 2008, , .		3
94	Development of intelligent service robots. Intelligenza Artificiale, 2013, 7, 139-152.	1.6	3
95	An integrated mobility system using real-time data for traffic simulation. , 2016, , .		3
96	Design and test of a real-time shelf out-of-stock detector system. Microsystem Technologies, 2018, 24, 1369-1377.	2.0	3
97	From Simulated to Real Scenarios: A Framework for Multi-UAVs. Lecture Notes in Computer Science, 2008, , 17-28.	1.3	3
98	A Novel Method for Fast Processing of Large Remote Sensed Image. Lecture Notes in Computer Science, 2013, , 409-418.	1.3	3
99	A low-cost and low-burden secure solution to track small-scale fisheries. , 2021, , .		3
100	Vision based approach for active selection of robot&#x2019;s localization action. , 2007, , .		2
101	Robot localization in urban environments using omnidirectional vision sensors and partial heterogeneous apriori knowledge. , 2010, , .		2
102	Coalition Formation for Unmanned Quadrotors. , 2011, , .		2
103	Design and test of a precise mobile GPS tracker. , 2013, , .		2
104	Exposure protocol setup for agro food treatment. Method and system for developing an application for heating in reverberation chamber. , 2015, , .		2
105	A Synergic Photometric Stereo and Super Resolution Approach for Optical Inspection. , 2018, , .		2
106	An IoT Solution for Energy Management at Building and District Level. , 2018, , .		2
107	An IOT Edge-Fog-Cloud Architecture for Vision Based Pallet Integrity. Lecture Notes in Computer Science, 2019, , 296-306.	1.3	2
108	Remote Touch Interaction with High Quality Models Using an Autostereoscopic 3D Display. Lecture Notes in Computer Science, 2017, , 478-489.	1.3	2

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109	RoboBuntu: A Linux distribution for mobile robotics. , 2009, , .		1
110	Wireless sensor network for exhausted oil collection management. , 2010, , .		1
111	UAVs Safe Landing Using Range Images. , 2011, , .		1
112	Real time out of shelf detection using embedded sensor network. , 2014, , .		1
113	Accurate modeling of the microwave treatment in reverberating chamber. sanitation of agro food material. , 2015, , .		1
114	Empowered Optical Inspection by Using Robotic Manipulator in Industrial Applications. , 2019, , .		1
115	3D Human Pose Estimation Based on Multi-Input Multi-Output Convolutional Neural Network and Event Cameras: A Proof of Concept on the DHP19 Dataset. Lecture Notes in Computer Science, 2021, , 14-25.	1.3	1
116	Autonomous Helicopter for Surveillance and Security. , 2007, , .		1
117	Particle Clustering to Improve Omnidirectional Localization in Outdoor Environments. , 2009, , .		1
118	A Visual Global Positioning System for Unmanned Aerial Vehicles Used in Photogrammetric Applications. , 2010, , 157-168.		1
119	Decision Environment of Renewable Energy: The Case of Geothermal Energy. SpringerBriefs in Applied Sciences and Technology, 2013, , 3-17.	0.4	1
120	A scalable telemedicine architecture for under developed countries. A case study: Democratic Republic of Congo. , 2008, , .		0
121	Stability maps for really exploitable automatic classification results. , 2009, , .		0
122	Summarization of echo-Doppler videos for computer-aided diagnosis. , 2012, , .		0
123	GIS-Supported Decision Making. SpringerBriefs in Applied Sciences and Technology, 2013, , 19-32.	0.4	0
124	Energy Harvesting Smart Floor for Indoor People Localization and Tracking. , 2015, , .		0
125	Using multibeam echosounder datafor a GIS-ready seafloor characterization in the Adriatic Sea. , 2015, , .		0
126	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

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127	Vehicle Tracking and Classification From Videos Under Illumination Changes and Occlusions. , 2017, , .		0
128	IoT Architecture for the Processing of Data Collected by a Central Vacuum Cleaner. , 2017, , .		0
129	CREATEFORUAS: Developing Innovative Technologies for Autonomous UAS. , 2020, , .		0
130	A Modular Framework for Fast Prototyping of Cooperative Unmanned Aerial Vehicle. , 2011, , 507-520.		0
131	GIS-Supported Decision Making for Low-Temperature Geothermal Energy in Central Italy. SpringerBriefs in Applied Sciences and Technology, 2013, , 35-38.	0.4	0
132	From Artificial Intelligence and Databases to Cognitive Computing: Past and Future Computer Engineering Research at UNIVPM. , 2019, , 101-121.		0