

Matteo Matteucci

List of Publications by Year in descending order

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68
papers

1,344
citations

516710

16
h-index

434195

31
g-index

72
all docs

72
docs citations

72
times ranked

1304
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning for Land Use and Land Cover Classification Based on Hyperspectral and Multispectral Earth Observation Data: A Review. Remote Sensing, 2020, 12, 2495.	4.0	177
2	Skeleton-based action recognition via spatial and temporal transformer networks. Computer Vision and Image Understanding, 2021, 208-209, 103219.	4.7	136
3	Deep Learning for SAR Image Despeckling. Remote Sensing, 2019, 11, 1532.	4.0	87
4	Bayesian deep learning based method for probabilistic forecast of day-ahead electricity prices. Applied Energy, 2019, 250, 1158-1175.	10.1	84
5	A reevaluation of frame difference in fast and robust motion detection. , 2006, , .		71
6	Using combined evidence from replicates to evaluate ChIP-seq peaks. Bioinformatics, 2015, 31, 2761-2769.	4.1	60
7	Asynchronous Convolutional Networks for Object Detection in Neuromorphic Cameras. , 2019, , .		51
8	Competitions for Benchmarking: Task and Functionality Scoring Complete Performance Assessment. IEEE Robotics and Automation Magazine, 2015, 22, 53-61.	2.0	48
9	TAPA-MVS: Textureless-Aware PATCHMATCH Multi-View Stereo. , 2019, , .		47
10	A Differentiable Recurrent Surface for Asynchronous Event-Based Data. Lecture Notes in Computer Science, 2020, , 136-152.	1.3	36
11	Real-Time CPU-Based Large-Scale Three-Dimensional Mesh Reconstruction. IEEE Robotics and Automation Letters, 2018, 3, 1584-1591.	5.1	28
12	Lung Cancer Identification by an Electronic Nose based on an Array of MOS Sensors. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	25
13	Vineyard Autonomous Navigation in the Echord++ GRAPE Experiment. IFAC-PapersOnLine, 2018, 51, 704-709.	0.9	25
14	Bridge: Mutual Reassurance for Autonomous and Independent Living. IEEE Intelligent Systems, 2015, 30, 31-38.	4.0	24
15	Probabilistic electric load forecasting through Bayesian Mixture Density Networks. Applied Energy, 2022, 309, 118341.	10.1	24
16	Robust moving objects detection in lidar data exploiting visual cues. , 2016, , .		23
17	Rawseeds: Building a Benchmarking Toolkit for Autonomous Robotics. SpringerBriefs in Applied Sciences and Technology, 2014, , 55-68.	0.4	22
18	Incremental reconstruction of urban environments by Edge-Points Delaunay triangulation. , 2015, , .		21

#	ARTICLE	IF	CITATIONS
19	A Tablet App for Handwriting Skill Screening at the Preliteracy Stage: Instrument Validation Study. JMIR Serious Games, 2020, 8, e20126.	3.1	21
20	A genetic algorithm for automatic feature extraction in P300 detection. , 2008, , .		20
21	ART-SLAM: Accurate Real-Time 6DoF LiDAR SLAM. IEEE Robotics and Automation Letters, 2022, 7, 2692-2699.	5.1	18
22	Background subtraction by combining Temporal and Spatio-Temporal histograms in the presence of camera movement. Machine Vision and Applications, 2014, 25, 1573-1584.	2.7	17
23	Automatic 3D reconstruction of manifold meshes via delaunay triangulation and mesh sweeping. , 2016, , .		17
24	MPC-based control architecture of an autonomous wheelchair for indoor environments. Control Engineering Practice, 2018, 78, 160-174.	5.5	17
25	A Deep Learning Approach for Change Points Detection in InSAR Time Series. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	15
26	Mesh-based 3D textured urban mapping. , 2017, , .		13
27	LFT-based MPC Control of an Autonomous Vehicle. IFAC-PapersOnLine, 2016, 49, 7-12.	0.9	12
28	Multi-view Stereo with Single-View Semantic Mesh Refinement. , 2017, , .		12
29	Reduction of Pesticide Use in Fresh-Cut Salad Production through Artificial Intelligence. Applied Sciences (Switzerland), 2021, 11, 1992.	2.5	12
30	Model Predictive Control of an autonomous wheelchair. IFAC-PapersOnLine, 2017, 50, 9821-9826.	0.9	11
31	Benchmarking Functionalities of Domestic Service Robots Through Scientific Competitions. KI - Kunstliche Intelligenz, 2019, 33, 357-367.	3.2	11
32	Next Generation Indexing for Genomic Intervals. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 2008-2021.	5.7	11
33	Data-driven indicators for the detection and prediction of stuck-pipe events in oil&gas drilling operations. Upstream Oil and Gas Technology, 2021, 7, 100043.	2.3	11
34	An innovative method for the analysis of vehicle movements in roundabouts based on image processing. Journal of Advanced Transportation, 2013, 47, 581-594.	1.7	10
35	Design of a prototypical platform for autonomous and connected vehicles. , 2021, , .		10
36	A comparison of two Monte Carlo algorithms for 3D vehicle trajectory reconstruction in roundabouts. Pattern Recognition Letters, 2015, 51, 79-85.	4.2	9

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37	Collection and comparison of driver/passenger physiologic and behavioural data in simulation and on-road driving. , 2017, , .		9
38	Behavior Drift Detection Based on Anomalies Identification in Home Living Quantitative Indicators. Technologies, 2018, 6, 16.	5.1	8
39	DA4Event: Towards Bridging the Sim-to-Real Gap for Event Cameras Using Domain Adaptation. IEEE Robotics and Automation Letters, 2021, 6, 6616-6623.	5.1	8
40	Operationalizing the Ethics of Connected and Automated Vehicles. International Journal of Technoethics, 2022, 13, 1-20.	0.8	8
41	Indexing Next-Generation Sequencing data. Information Sciences, 2017, 384, 90-109.	6.9	7
42	Digital Tools for Handwriting Proficiency Evaluation in Children. , 2021, , .		7
43	Efficient Moving Point Handling for Incremental 3D Manifold Reconstruction. Lecture Notes in Computer Science, 2015, , 489-499.	1.3	7
44	A Data-Driven Prior on Facet Orientation for Semantic Mesh Labeling. , 2018, , .		5
45	Human Behavior Drift Detection in a Smart Home Environment. Studies in Health Technology and Informatics, 2017, 242, 199-203.	0.3	5
46	Ant colony optimization technique for equilibrium assignment in congested transportation networks. , 2006, , .		4
47	An ant colony system for transportation user equilibrium analysis in congested networks. Swarm Intelligence, 2013, 7, 255-277.	2.2	4
48	From Models to Software Through Automatic Transformations: An AADL to ROS End-to-End Toolchain. , 2019, , .		4
49	Vehicle Localization Using 3D Building Models and Point Cloud Matching. Sensors, 2021, 21, 5356.	3.8	4
50	Two algorithms for vehicular obstacle detection in sparse pointcloud. , 2021, , .		4
51	Deep Learning of Transferable MIMO Channel Modes for 6G V2X Communications. IEEE Transactions on Antennas and Propagation, 2022, 70, 4127-4139.	5.1	4
52	A Modelica simulator to support the development of the control system of an autonomous All-Terrain mobile robot. IFAC-PapersOnLine, 2015, 48, 274-279.	0.9	3
53	Dense 3D Visual Mapping via Semantic Simplification. , 2019, , .		3
54	Toward model-based benchmarking of robot components. , 2019, , .		2

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55	Probabilistic day-ahead energy price forecast by a Mixture Density Recurrent Neural Network. , 2020, , .		2
56	Performance Models in Robotics With a Use Case on SLAM. IEEE Robotics and Automation Letters, 2022, 7, 4646-4653.	5.1	2
57	FIXCS: a Fuzzy Implementation of XCS. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	1
58	Backward-Simulation Particle Smoother with a hybrid state for 3D vehicle trajectory, class and dimension simultaneous estimation. Machine Vision and Applications, 2015, 26, 369-385.	2.7	1
59	Semi-and-automatic wheal measurement system for prick test digital imaging and analysis. , 2016, , .		1
60	Skin prick test digital imaging system with manual, semiautomatic, and automatic wheal edge detection and area measurement. Multimedia Tools and Applications, 2018, 77, 9779-9797.	3.9	1
61	On the Design of the Agri-Food Competition for Robot Evaluation (ACRE). , 2021, , .		1
62	Predicting the Next Best View for 3D Mesh Refinement. Advances in Intelligent Systems and Computing, 2019, , 760-772.	0.6	1
63	Quantitative Indicators for Behaviour Drift Detection from Home Automation Data. Studies in Health Technology and Informatics, 2017, 242, 208-215.	0.3	1
64	Practical applications of the R2P embedded framework for robot rapid development. , 2015, , .		0
65	Image Segmentation on Embedded Systems via Superpixel Convolutional Networks. , 2019, , .		0
66	Exposing and Characterizing Subpopulations of Distinctly Regulated Genes by K-Plane Regression. Lecture Notes in Computer Science, 2020, , 227-238.	1.3	0
67	Hyperspectral Image Analysis for Automatic Detection and Discrimination of Residual Manufacturing Contaminants. , 2021, , .		0
68	Improving Multi-View Stereo via Super-Resolution. Lecture Notes in Computer Science, 2022, , 102-113.	1.3	0