

# 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	Operationalizing the Ethics of Connected and Automated Vehicles. International Journal of Technoethics, 2022, 13, 1-20.	0.8	8
2	Probabilistic electric load forecasting through Bayesian Mixture Density Networks. Applied Energy, 2022, 309, 118341.	10.1	24
3	ART-SLAM: Accurate Real-Time 6DoF LiDAR SLAM. IEEE Robotics and Automation Letters, 2022, 7, 2692-2699.	5.1	18
4	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
5	Performance Models in Robotics With a Use Case on SLAM. IEEE Robotics and Automation Letters, 2022, 7, 4646-4653.	5.1	2
6	Deep Learning of Transferable MIMO Channel Modes for 6G V2X Communications. IEEE Transactions on Antennas and Propagation, 2022, 70, 4127-4139.	5.1	4
7	Improving Multi-View Stereo via Super-Resolution. Lecture Notes in Computer Science, 2022, , 102-113.	1.3	0
8	Reduction of Pesticide Use in Fresh-Cut Salad Production through Artificial Intelligence. Applied Sciences (Switzerland), 2021, 11, 1992.	2.5	12
9	On the Design of the Agri-Food Competition for Robot Evaluation (ACRE). , 2021, , .		1
10	Digital Tools for Handwriting Proficiency Evaluation in Children. , 2021, , .		7
11	Skeleton-based action recognition via spatial and temporal transformer networks. Computer Vision and Image Understanding, 2021, 208-209, 103219.	4.7	136
12	Vehicle Localization Using 3D Building Models and Point Cloud Matching. Sensors, 2021, 21, 5356.	3.8	4
13	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
14	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
15	Hyperspectral Image Analysis for Automatic Detection and Discrimination of Residual Manufacturing Contaminants. , 2021, , .		0
16	Design of a prototypical platform for autonomous and connected vehicles. , 2021, , .		10
17	Two algorithms for vehicular obstacle detection in sparse pointcloud. , 2021, , .		4
18	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

#	ARTICLE	IF	CITATIONS
19	Probabilistic day-ahead energy price forecast by a Mixture Density Recurrent Neural Network. , 2020, , .		2
20	A Tablet App for Handwriting Skill Screening at the Preliteracy Stage: Instrument Validation Study. JMIR Serious Games, 2020, 8, e20126.	3.1	21
21	A Differentiable Recurrent Surface for Asynchronous Event-Based Data. Lecture Notes in Computer Science, 2020, , 136-152.	1.3	36
22	Exposing and Characterizing Subpopulations of Distinctly Regulated Genes by K-Plane Regression. Lecture Notes in Computer Science, 2020, , 227-238.	1.3	0
23	Deep Learning for SAR Image Despeckling. Remote Sensing, 2019, 11, 1532.	4.0	87
24	Image Segmentation on Embedded Systems via Superpixel Convolutional Networks. , 2019, , .		0
25	Dense 3D Visual Mapping via Semantic Simplification. , 2019, , .		3
26	Benchmarking Functionalities of Domestic Service Robots Through Scientific Competitions. KI - Kunstliche Intelligenz, 2019, 33, 357-367.	3.2	11
27	Bayesian deep learning based method for probabilistic forecast of day-ahead electricity prices. Applied Energy, 2019, 250, 1158-1175.	10.1	84
28	From Models to Software Through Automatic Transformations: An AADL to ROS End-to-End Toolchain. , 2019, , .		4
29	Asynchronous Convolutional Networks for Object Detection in Neuromorphic Cameras. , 2019, , .		51
30	Toward model-based benchmarking of robot components. , 2019, , .		2
31	TAPA-MVS: Textureless-Aware PAtchMatch Multi-View Stereo. , 2019, , .		47
32	Next Generation Indexing for Genomic Intervals. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 2008-2021.	5.7	11
33	Predicting the Next Best View for 3D Mesh Refinement. Advances in Intelligent Systems and Computing, 2019, , 760-772.	0.6	1
34	Real-Time CPU-Based Large-Scale Three-Dimensional Mesh Reconstruction. IEEE Robotics and Automation Letters, 2018, 3, 1584-1591.	5.1	28
35	A Data-Driven Prior on Facet Orientation for Semantic Mesh Labeling. , 2018, , .		5
36	Vineyard Autonomous Navigation in the Echord++ GRAPE Experiment. IFAC-PapersOnLine, 2018, 51, 704-709.	0.9	25

#	ARTICLE	IF	CITATIONS
37	MPC-based control architecture of an autonomous wheelchair for indoor environments. Control Engineering Practice, 2018, 78, 160-174.	5.5	17
38	Behavior Drift Detection Based on Anomalies Identification in Home Living Quantitative Indicators. Technologies, 2018, 6, 16.	5.1	8
39	Skin prick test digital imaging system with manual, semiautomatic, and automatic wheel edge detection and area measurement. Multimedia Tools and Applications, 2018, 77, 9779-9797.	3.9	1
40	Indexing Next-Generation Sequencing data. Information Sciences, 2017, 384, 90-109.	6.9	7
41	Model Predictive Control of an autonomous wheelchair. IFAC-PapersOnLine, 2017, 50, 9821-9826.	0.9	11
42	Collection and comparison of driver/passenger physiologic and behavioural data in simulation and on-road driving. , 2017, , .		9
43	Mesh-based 3D textured urban mapping. , 2017, , .		13
44	Multi-view Stereo with Single-View Semantic Mesh Refinement. , 2017, , .		12
45	Human Behavior Drift Detection in a Smart Home Environment. Studies in Health Technology and Informatics, 2017, 242, 199-203.	0.3	5
46	Quantitative Indicators for Behaviour Drift Detection from Home Automation Data. Studies in Health Technology and Informatics, 2017, 242, 208-215.	0.3	1
47	Robust moving objects detection in lidar data exploiting visual cues. , 2016, , .		23
48	LFT-based MPC Control of an Autonomous Vehicle. IFAC-PapersOnLine, 2016, 49, 7-12.	0.9	12
49	Semi-and-automatic wheel measurement system for prick test digital imaging and analysis. , 2016, , .		1
50	Automatic 3D reconstruction of manifold meshes via delaunay triangulation and mesh sweeping. , 2016, , .		17
51	Incremental reconstruction of urban environments by Edge-Points Delaunay triangulation. , 2015, , .		21
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	Competitions for Benchmarking: Task and Functionality Scoring Complete Performance Assessment. IEEE Robotics and Automation Magazine, 2015, 22, 53-61.	2.0	48
54	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

#	ARTICLE	IF	CITATIONS
55	Using combined evidence from replicates to evaluate ChIP-seq peaks. <i>Bioinformatics</i> , 2015, 31, 2761-2769.	4.1	60
56	Bridge: Mutual Reassurance for Autonomous and Independent Living. <i>IEEE Intelligent Systems</i> , 2015, 30, 31-38.	4.0	24
57	Practical applications of the R2P embedded framework for robot rapid development. , 2015, , .		0
58	A comparison of two Monte Carlo algorithms for 3D vehicle trajectory reconstruction in roundabouts. <i>Pattern Recognition Letters</i> , 2015, 51, 79-85.	4.2	9
59	Efficient Moving Point Handling for Incremental 3D Manifold Reconstruction. <i>Lecture Notes in Computer Science</i> , 2015, , 489-499.	1.3	7
60	Background subtraction by combining Temporal and Spatio-Temporal histograms in the presence of camera movement. <i>Machine Vision and Applications</i> , 2014, 25, 1573-1584.	2.7	17
61	Rawseeds: Building a Benchmarking Toolkit for Autonomous Robotics. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014, , 55-68.	0.4	22
62	An innovative method for the analysis of vehicle movements in roundabouts based on image processing. <i>Journal of Advanced Transportation</i> , 2013, 47, 581-594.	1.7	10
63	An ant colony system for transportation user equilibrium analysis in congested networks. <i>Swarm Intelligence</i> , 2013, 7, 255-277.	2.2	4
64	A genetic algorithm for automatic feature extraction in P300 detection. , 2008, , .		20
65	FIXCS: a Fuzzy Implementation of XCS. <i>IEEE International Conference on Fuzzy Systems</i> , 2007, , .	0.0	1
66	Lung Cancer Identification by an Electronic Nose based on an Array of MOS Sensors. <i>Neural Networks (IJCNN), International Joint Conference on</i> , 2007, , .	0.0	25
67	Ant colony optimization technique for equilibrium assignment in congested transportation networks. , 2006, , .		4
68	A reevaluation of frame difference in fast and robust motion detection. , 2006, , .		71