

Angelos A Amanatiadis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3159185/publications.pdf>

Version: 2024-02-01

62
papers

929
citations

566801

15
h-index

552369

26
g-index

63
all docs

63
docs citations

63
times ranked

795
citing authors

#	ARTICLE	IF	CITATIONS
1	Educational Robotics in the Service of the Gestalt Similarity Principle. , 2022, , .		3
2	A cooperative LiDAR-camera scheme for extrinsic calibration. , 2022, , .		2
3	Introducing Algorithmic Thinking and Sequencing Using Tangible Robots. IEEE Transactions on Learning Technologies, 2021, 14, 93-105.	2.2	17
4	Real-Time Semantic Image Segmentation with Deep Learning for Autonomous Driving: A Survey. Applied Sciences (Switzerland), 2021, 11, 8802.	1.3	17
5	MarsExplorer: Exploration of Unknown Terrains via Deep Reinforcement Learning and Procedurally Generated Environments. Electronics (Switzerland), 2021, 10, 2751.	1.8	4
6	Word Spotting as a Service: An Unsupervised and Segmentation-Free Framework for Handwritten Documents. Journal of Imaging, 2021, 7, 278.	1.7	2
7	Educational Robotics: Platforms, Competitions and Expected Learning Outcomes. IEEE Access, 2020, 8, 219534-219562.	2.6	48
8	Social Robots in Special Education: Creating Dynamic Interactions for Optimal Experience. IEEE Consumer Electronics Magazine, 2020, 9, 39-45.	2.3	24
9	Deep Learning Inference at the Edge for Mobile and Aerial Robotics. , 2020, , .		5
10	Memristive Circuits for the Simulation of the Earthquake Process. , 2019, , .		0
11	ViPED: On-road vehicle passenger detection for autonomous vehicles. Robotics and Autonomous Systems, 2019, 112, 282-290.	3.0	15
12	Fast loop-closure detection using visual-word-vectors from image sequences. International Journal of Robotics Research, 2018, 37, 62-82.	5.8	69
13	Real-time surveillance detection system for medium-altitude long-endurance unmanned aerial vehicles. Concurrency Computation Practice and Experience, 2018, 30, e4145.	1.4	10
14	A LoCATE-based visual place recognition system for mobile robotics and GPGPUs. Concurrency Computation Practice and Experience, 2018, 30, e4146.	1.4	7
15	CoMo. , 2017, , .		11
16	High order visual words for structure-aware and viewpoint-invariant loop closure detection. , 2017, , .		17
17	A Multisensor Indoor Localization System for Biped Robots Operating in Industrial Environments. IEEE Transactions on Industrial Electronics, 2016, 63, 7597-7606.	5.2	29
18	Autonomous Vehicle Emergency Recovery Tool: A Cooperative Robotic System for Car Extraction. Journal of Field Robotics, 2016, 33, 1058-1086.	3.2	5

#	ARTICLE	IF	CITATIONS
19	Encoding the description of image sequences: A two-layered pipeline for loop closure detection. , 2016, , .		33
20	A cellular automata based FPGA realization of a new metaheuristic bat-inspired algorithm. AIP Conference Proceedings, 2016, , .	0.3	1
21	A stereo matching approach based on particle filters and scattered control landmarks. Image and Vision Computing, 2015, 38, 13-23.	2.7	20
22	Image moment invariants as local features for content based image retrieval using the Bag-of-Visual-Words model. Pattern Recognition Letters, 2015, 55, 22-27.	2.6	74
23	A neural network-based approach for user experience assessment. Behaviour and Information Technology, 2015, 34, 304-315.	2.5	12
24	Can Speedup Assist Accuracy? An On-Board GPU-Accelerated Image Georeference Method for UAVs. Lecture Notes in Computer Science, 2015, , 104-114.	1.0	2
25	Color and Edge Directivity Descriptor on GPGPU. , 2015, , .		3
26	Accelerating single-image super-resolution polynomial regression in mobile devices. IEEE Transactions on Consumer Electronics, 2015, 61, 63-71.	3.0	6
27	Autonomous Robot Path Planning Techniques Using Cellular Automata. Emergence, Complexity and Computation, 2015, , 175-196.	0.2	2
28	AVERT: An autonomous multi-robot system for vehicle extraction and transportation. , 2015, , .		16
29	What, Where and How? Introducing pose manifolds for industrial object manipulation. Expert Systems With Applications, 2015, 42, 8123-8133.	4.4	4
30	Real-time indexing for large image databases: color and edge directivity descriptor on GPU. Journal of Supercomputing, 2015, 71, 909-937.	2.4	8
31	The HCUAV project: Electronics and software development for medium altitude remote sensing. , 2014, , .		4
32	Identification and retrieval of DNA genomes using binary image representations produced by cellular automata. , 2014, , .		2
33	Accelerating image super-resolution regression by a hybrid implementation in mobile devices. , 2014, , .		8
34	How Smart Are Smartphones?: Bridging the marketing and information technology gap.. IEEE Consumer Electronics Magazine, 2014, 3, 51-54.	2.3	1
35	Two-staged image colorization based on salient contours. , 2014, , .		7
36	Digital elevation model fusion using spectral methods. , 2014, , .		7

#	ARTICLE	IF	CITATIONS
37	A Multi-Objective Exploration Strategy for Mobile Robots Under Operational Constraints. IEEE Access, 2013, 1, 691-702.	2.6	27
38	The AVERT project: Autonomous Vehicle Emergency Recovery Tool. , 2013, , .		5
39	How Do You Help a Robot to Find a Place? A Supervised Learning Paradigm to Semantically Infer about Places. Lecture Notes in Computer Science, 2013, , 324-333.	1.0	1
40	Imaging Systems and Techniques 2011. Measurement Science and Technology, 2012, 23, 110101.	1.4	0
41	Efficient Robot Path Planning in the Presence of Dynamically Expanding Obstacles. Lecture Notes in Computer Science, 2012, , 330-339.	1.0	7
42	Pose manifolds for efficient visual servoing. , 2012, , .		0
43	Sparse deep-learning algorithm for recognition and categorisation. Electronics Letters, 2012, 48, 1265.	0.5	8
44	Binary Image 2D Shape Learning and Recognition Based on Lattice-Computing (LC) Techniques. Journal of Mathematical Imaging and Vision, 2012, 42, 118-133.	0.8	24
45	Evaluation of shape descriptors for shape-based image retrieval. IET Image Processing, 2011, 5, 493.	1.4	92
46	Efficient hierarchical matching algorithm for processing uncalibrated stereo vision images and its hardware architecture. IET Image Processing, 2011, 5, 481.	1.4	26
47	Imaging Systems and Techniques. Measurement Science and Technology, 2011, 22, 110101.	1.4	7
48	An intelligent multi-sensor system for first responder indoor navigation. Measurement Science and Technology, 2011, 22, 114025.	1.4	14
49	Guiding a robotic gripper by visual feedback for object manipulation tasks. , 2011, , .		16
50	Digital Image Stabilization by Independent Component Analysis. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1755-1763.	2.4	22
51	2-D Shape Representation and Recognition by Lattice Computing Techniques. Lecture Notes in Computer Science, 2010, , 391-398.	1.0	2
52	A fuzzy multi-sensor architecture for indoor navigation. , 2010, , .		5
53	A comparative study of invariant descriptors for shape retrieval. , 2009, , .		11
54	A survey on evaluation methods for image interpolation. Measurement Science and Technology, 2009, 20, 104015.	1.4	70

#	ARTICLE	IF	CITATIONS
55	Dense disparity estimation using a hierarchical matching technique from uncalibrated stereo vision. , 2009, , .		7
56	Pose estimation of a volant platform with a monocular visuo-inertial system. , 2009, , .		4
57	Design and Implementation of a Fuzzy Area-Based Image-Scaling Technique. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 1504-1513.	2.4	22
58	An integrated architecture for adaptive image stabilization in zooming operation. IEEE Transactions on Consumer Electronics, 2008, 54, 600-608.	3.0	15
59	Performance evaluation techniques for image scaling algorithms. , 2008, , .		17
60	Development of a stereo vision system for remotely operated robots: A control and video streaming architecture. , 2008, , .		9
61	Methods and techniques for intelligent navigation and manipulation for bomb disposal and rescue operations. , 2007, , .		16
62	Defining the Main Factors of Quality of Service in Mobile Telephony. , 2006, , .		1