Angelos A Amanatiadis

List of Publications by Year
in descending order

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	Evaluation of shape descriptors for shape-based image retrieval. IET Image Processing, 2011, 5, 493.	1.4	92
2	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
3	A survey on evaluation methods for image interpolation. Measurement Science and Technology, 2009, 20, 104015.	1.4	70
4	Fast loop-closure detection using visual-word-vectors from image sequences. International Journal of Robotics Research, 2018, 37, 62-82.	5.8	69
5	Educational Robotics: Platforms, Competitions and Expected Learning Outcomes. IEEE Access, 2020, 8, 219534-219562.	2.6	48
6	Encoding the description of image sequences: A two-layered pipeline for loop closure detection. , 2016, , .		33
7	A Multisensor Indoor Localization System for Biped Robots Operating in Industrial Environments. IEEE Transactions on Industrial Electronics, 2016, 63, 7597-7606.	5.2	29
8	A Multi-Objective Exploration Strategy for Mobile Robots Under Operational Constraints. IEEE Access, 2013, 1, 691-702.	2.6	27
9	Efficient hierarchical matching algorithm for processing uncalibrated stereo vision images and its hardware architecture. IET Image Processing, 2011, 5, 481.	1.4	26
10	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
11	Social Robots in Special Education: Creating Dynamic Interactions for Optimal Experience. IEEE Consumer Electronics Magazine, 2020, 9, 39-45.	2.3	24
12	Design and Implementation of a Fuzzy Area-Based Image-Scaling Technique. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 1504-1513.	2.4	22
13	Digital Image Stabilization by Independent Component Analysis. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1755-1763.	2.4	22
14	A stereo matching approach based on particle filters and scattered control landmarks. Image and Vision Computing, 2015, 38, 13-23.	2.7	20
15	Performance evaluation techniques for image scaling algorithms. , 2008, , .		17
16	High order visual words for structure-aware and viewpoint-invariant loop closure detection. , 2017, , .		17
17	Introducing Algorithmic Thinking and Sequencing Using Tangible Robots. IEEE Transactions on Learning Technologies, 2021, 14, 93-105.	2.2	17
18	Real-Time Semantic Image Segmentation with Deep Learning for Autonomous Driving: A Survey. Applied Sciences (Switzerland), 2021, 11, 8802.	1.3	17

#	Article	IF	Citations
19	Methods and techniques for intelligent navigation and manipulation for bomb disposal and rescue operations. , 2007, , .		16
20	Guiding a robotic gripper by visual feedback for object manipulation tasks. , 2011, , .		16
21	AVERT: An autonomous multi-robot system for vehicle extraction and transportation. , 2015, , .		16
22	An integrated architecture for adaptive image stabilization in zooming operation. IEEE Transactions on Consumer Electronics, 2008, 54, 600-608.	3.0	15
23	ViPED: On-road vehicle passenger detection for autonomous vehicles. Robotics and Autonomous Systems, 2019, 112, 282-290.	3.0	15
24	An intelligent multi-sensor system for first responder indoor navigation. Measurement Science and Technology, 2011, 22, 114025.	1.4	14
25	A neural network-based approach for user experience assessment. Behaviour and Information Technology, 2015, 34, 304-315.	2.5	12
26	A comparative study of invariant descriptors for shape retrieval. , 2009, , .		11
27	CoMo. , 2017, , .		11
28	Real‐time surveillance detection system for medium‐altitude long‐endurance unmanned aerial vehicles. Concurrency Computation Practice and Experience, 2018, 30, e4145.	1.4	10
29	Development of a stereo vision system for remotely operated robots: A control and video streaming architecture. , 2008, , .		9
30	Sparse deep-learning algorithm for recognition and categorisation. Electronics Letters, 2012, 48, 1265.	0.5	8
31	Accelerating image super-resolution regression by a hybrid implementation in mobile devices. , 2014, , .		8
32	Real-time indexing for large image databases: color and edge directivity descriptor on GPU. Journal of Supercomputing, 2015, 71, 909-937.	2.4	8
33	Dense disparity estimation using a hierarchical matching technique from uncalibrated stereo vision. , 2009, , .		7
34	Imaging Systems and Techniques. Measurement Science and Technology, 2011, 22, 110101.	1.4	7
35	Efficient Robot Path Planning in the Presence of Dynamically Expanding Obstacles. Lecture Notes in Computer Science, 2012, , 330-339.	1.0	7
36	Two-staged image colorization based on salient contours. , 2014, , .		7

#	Article	IF	Citations
37	Digital elevation model fusion using spectral methods. , 2014, , .		7
38	A LoCATeâ€‹based visual place recognition system for mobile robotics and GPGPUs. Concurrency Computation Practice and Experience, 2018, 30, e4146.	1.4	7
39	Accelerating single-image super-resolution polynomial regression in mobile devices. IEEE Transactions on Consumer Electronics, 2015, 61, 63-71.	3.0	6
40	A fuzzy multi-sensor architecture for indoor navigation. , 2010, , .		5
41	The AVERT project: Autonomous Vehicle Emergency Recovery Tool. , 2013, , .		5
42	Autonomous Vehicle Emergency Recovery Tool: A Cooperative Robotic System for Car Extraction. Journal of Field Robotics, 2016, 33, 1058-1086.	3.2	5
43	Deep Learning Inference at the Edge for Mobile and Aerial Robotics. , 2020, , .		5
44	Pose estimation of a volant platform with a monocular visuo-inertial system. , 2009, , .		4
45	The HCUAV project: Electronics and software development for medium altitude remote sensing. , 2014, , .		4
46	What, Where and How? Introducing pose manifolds for industrial object manipulation. Expert Systems With Applications, 2015, 42, 8123-8133.	4.4	4
47	MarsExplorer: Exploration of Unknown Terrains via Deep Reinforcement Learning and Procedurally Generated Environments. Electronics (Switzerland), 2021, 10, 2751.	1.8	4
48	Color and Edge Directivity Descriptor on GPGPU. , 2015, , .		3
49	Educational Robotics in the Service of the Gestalt Similarity Principle. , 2022, , .		3
50	2-D Shape Representation and Recognition by Lattice Computing Techniques. Lecture Notes in Computer Science, 2010, , 391-398.	1.0	2
51	Identification and retrieval of DNA genomes using binary image representations produced by cellular automata. , 2014, , .		2
52	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
53	Autonomous Robot Path Planning Techniques Using Cellular Automata. Emergence, Complexity and Computation, 2015, , 175-196.	0.2	2
54	Word Spotting as a Service: An Unsupervised and Segmentation-Free Framework for Handwritten Documents. Journal of Imaging, 2021, 7, 278.	1.7	2

#	Article	IF	Citations
55	A cooperative LiDAR-camera scheme for extrinsic calibration. , 2022, , .		2
56	Defining the Main Factors of Quality of Service in Mobile Telephony. , 2006, , .		1
57	How Smart Are Smartphones?: Bridging the marketing and information technology gap.. IEEE Consumer Electronics Magazine, 2014, 3, 51-54.	2.3	1
58	A cellular automata based FPGA realization of a new metaheuristic bat-inspired algorithm. AIP Conference Proceedings, 2016, , .	0.3	1
59	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
60	Imaging Systems and Techniques 2011. Measurement Science and Technology, 2012, 23, 110101.	1.4	0
61	Pose manifolds for efficient visual servoing. , 2012, , .		0
62	Memristive Circuits for the Simulation of the Earthquake Process. , 2019, , .		0