

Sergiu S Nedevschi

List of Publications by Year in descending order

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312
papers

3,462
citations

331259

21
h-index

315357

38
g-index

319
all docs

319
docs citations

319
times ranked

2442
citing authors

#	ARTICLE	IF	CITATIONS
1	Processing Dense Stereo Data Using Elevation Maps: Road Surface, Traffic Isle, and Obstacle Detection. IEEE Transactions on Vehicular Technology, 2010, 59, 1172-1182.	3.9	167
2	Modeling and Tracking the Driving Environment With a Particle-Based Occupancy Grid. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 1331-1342.	4.7	148
3	Probabilistic Lane Tracking in Difficult Road Scenarios Using Stereovision. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 272-282.	4.7	115
4	High accuracy stereo vision system for far distance obstacle detection. , 0, , .		101
5	Stereo-Based Pedestrian Detection for Collision-Avoidance Applications. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 380-391.	4.7	99
6	Total variation regularization of local-global optical flow. , 2011, , .		88
7	3D lane detection system based on stereovision. , 0, , .		85
8	Accurate Ego-Vehicle Global Localization at Intersections Through Alignment of Visual Data With Digital Map. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 673-687.	4.7	66
9	Road Surface and Obstacle Detection Based on Elevation Maps from Dense Stereo. , 2007, , .		61
10	Exponential Contrast Restoration in Fog Conditions for Driving Assistance. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2257-2268.	4.7	58
11	Stabilization and Validation of 3D Object Position Using Multimodal Sensor Fusion and Semantic Segmentation. Sensors, 2020, 20, 1110.	2.1	57
12	Motion Estimation Using the Correlation Transform. IEEE Transactions on Image Processing, 2013, 22, 3260-3270.	6.0	56
13	Comparison of Deep-Learning and Conventional Machine-Learning Methods for the Automatic Recognition of the Hepatocellular Carcinoma Areas from Ultrasound Images. Sensors, 2020, 20, 3085.	2.1	56
14	The PAN-Robots Project: Advanced Automated Guided Vehicle Systems for Industrial Logistics. IEEE Robotics and Automation Magazine, 2018, 25, 55-64.	2.2	51
15	A Sensor for Urban Driving Assistance Systems Based on Dense Stereovision. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	46
16	Stereovision-Based Multiple Object Tracking in Traffic Scenarios Using Free-Form Obstacle Delimiters and Particle Filters. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 498-511.	4.7	44
17	Semantic Channels for Fast Pedestrian Detection. , 2016, , .		44
18	SORT-SGM: Subpixel Optimized Real-Time Semiglobal Matching for Intelligent Vehicles. IEEE Transactions on Vehicular Technology, 2012, 61, 1032-1042.	3.9	43

#	ARTICLE	IF	CITATIONS
19	Design of Interpolation Functions for Subpixel-Accuracy Stereo-Vision Systems. IEEE Transactions on Image Processing, 2012, 21, 889-898.	6.0	43
20	Word Channel Based Multiscale Pedestrian Detection without Image Resizing and Using Only One Classifier. , 2014, , .		41
21	Image based fog detection and visibility estimation for driving assistance systems. , 2013, , .		40
22	Curb Detection Based on a Multi-Frame Persistence Map for Urban Driving Scenarios. , 2008, , .		39
23	Efficient and robust classification method using combined feature vector for lane detection. IEEE Transactions on Circuits and Systems for Video Technology, 2005, 15, 528-537.	5.6	38
24	Teeth Detection and Dental Problem Classification in Panoramic X-Ray Images using Deep Learning and Image Processing Techniques. , 2020, , .		37
25	Real-time obstacle detection in complex scenarios using dense stereo vision and optical flow. , 2010, , .		35
26	Real-time semi-global dense stereo solution with improved sub-pixel accuracy. , 2010, , .		34
27	Abdominal Tumor Characterization and Recognition Using Superior-Order Cooccurrence Matrices, Based on Ultrasound Images. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-17.	0.7	33
28	Camera Calibration Method for Far Range Stereovision Sensors Used in Vehicles. , 0, , .		32
29	Detection and classification of painted road objects for intersection assistance applications. , 2010, , .		32
30	Semi-Supervised Segmentation of Ultrasound Images Based on Patch Representation and Continuous Min Cut. PLoS ONE, 2014, 9, e100972.	1.1	32
31	Super-sensor for 360-degree environment perception: Point cloud segmentation using image features. , 2017, , .		30
32	GPU optimization of the SGM stereo algorithm. , 2010, , .		29
33	Intersection safety using lidar and stereo vision sensors. , 2011, , .		29
34	LUT-based Image Rectification Module Implemented in FPGA. , 2007, , .		28
35	Pedestrian Street-Cross Action Recognition in Monocular Far Infrared Sequences. IEEE Access, 2021, 9, 74302-74324.	2.6	28
36	Stereovision Based Vehicle Tracking in Urban Traffic Environments. , 2007, , .		26

#	ARTICLE	IF	CITATIONS
37	Online Extrinsic Parameters Calibration for Stereovision Systems Used in Far-Range Detection Vehicle Applications. IEEE Transactions on Intelligent Transportation Systems, 2007, 8, 651-660.	4.7	25
38	Curb detection for driving assistance systems: A cubic spline-based approach. , 2011, , .		25
39	Omnidirectional stereo vision using fisheye lenses. , 2014, , .		25
40	Multi-Object Tracking of 3D Cuboids Using Aggregated Features. , 2019, , .		23
41	Driving environment perception using stereovision. , 2005, , .		22
42	Increased Accuracy Stereo Approach for 3D Lane Detection. , 0, , .		22
43	Particle Grid Tracking System Stereovision Based Obstacle Perception in Driving Environments. IEEE Intelligent Transportation Systems Magazine, 2012, 4, 6-20.	2.6	22
44	Real-Time Semantic Segmentation-Based Stereo Reconstruction. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1514-1524.	4.7	22
45	Tracking multiple objects using particle filters and digital elevation maps. , 2009, , .		21
46	ICTD state of the union: Where have we reached and where are we headed. , 2009, , .		20
47	Robust Data Association Using Fusion of Data-Driven and Engineered Features for Real-Time Pedestrian Tracking in Thermal Images. Sensors, 2021, 21, 8005.	2.1	20
48	Real-time obstacle detection using dense stereo vision and dense optical flow. , 2010, , .		18
49	Detecting Curvilinear Features Using Structure Tensors. IEEE Transactions on Image Processing, 2015, 24, 3874-3887.	6.0	18
50	Stop-line detection and localization method for intersection scenarios. , 2011, , .		17
51	Lane identification and ego-vehicle accurate global positioning in intersections. , 2011, , .		17
52	UV disparity based obstacle detection and pedestrian classification in urban traffic scenarios. , 2014, , .		17
53	Monocular Depth Estimation With Improved Long-Range Accuracy for UAV Environment Perception. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	17
54	Potential of CDMA450 for rural network connectivity. , 2007, 45, 128-135.		16

#	ARTICLE	IF	CITATIONS
55	Lane Geometry Estimation in Urban Environments Using a Stereovision System. , 2007, , .		16
56	The influence of hubness on nearest-neighbor methods in object recognition. , 2011, , .		16
57	A Particle-Based Solution for Modeling and Tracking Dynamic Digital Elevation Maps. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1002-1015.	4.7	16
58	Vehicle taillight detection and tracking using deep learning and thresholding for candidate generation. , 2017, , .		16
59	A framework for object detection, tracking and classification in urban traffic scenarios using stereovision. , 2009, , .		15
60	Particle grid tracking system for stereovision based environment perception. , 2010, , .		15
61	Vision-based autonomous load handling for automated guided vehicles. , 2014, , .		15
62	Object tracking from stereo sequences using particle filter. , 2008, , .		14
63	A stereovision based approach for detecting and tracking lane and forward obstacles on mobile devices. , 2015, , .		14
64	Hepatocellular Carcinoma Automatic Diagnosis within CEUS and B-Mode Ultrasound Images Using Advanced Machine Learning Methods. Sensors, 2021, 21, 2202.	2.1	14
65	Tracking multiple objects in urban traffic environments using dense stereo and optical flow. , 2011, , .		13
66	New results in stereovision based lane tracking. , 2011, , .		13
67	New sub-pixel interpolation functions for accurate real-time stereo-matching algorithms. , 2015, , .		13
68	Fast Pedestrian Detection for Mobile Devices. , 2015, , .		13
69	Stereovision-Based Sensor for Intersection Assistance. , 2009, , 129-163.		12
70	Pedestrians detection using a cascade of LBP and HOG classifiers. , 2013, , .		12
71	Pedestrian detection in infrared images using Aggregated Channel Features. , 2014, , .		12
72	Real-time object detection using a sparse 4-layer LIDAR. , 2017, , .		12

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73	Fast Boosting Based Detection Using Scale Invariant Multimodal Multiresolution Filtered Features. , 2017, , .		12
74	Fusing semantic labeled camera images and 3D LiDAR data for the detection of urban curbs. , 2018, , .		12
75	Forward collision detection using a Stereo Vision System. , 2008, , .		11
76	Pedestrian detection in infrared images using HOG, LBP, gradient magnitude and intensity feature channels. , 2014, , .		11
77	A stereovision-based probabilistic lane tracker for difficult road scenarios. , 2008, , .		10
78	Usefulness of textural analysis as a tool for noninvasive liver fibrosis staging. Journal of Medical Ultrasonics (2001), 2011, 38, 105-117.	0.6	10
79	Linear vs. non linear minimization in stereo visual odometry. , 2011, , .		10
80	Real-time dynamic environment perception in driving scenarios using difference fronts. , 2012, , .		10
81	Stereo based visual odometry in difficult traffic scenes. , 2012, , .		10
82	PCA type algorithm applied in face recognition. , 2012, , .		10
83	Real-time modeling of dynamic environments in traffic scenarios using a stereo-vision system. , 2012, , .		10
84	Obstacle detection using stereovision for Android-based mobile devices. , 2014, , .		10
85	Multimodal sparse LIDAR object tracking in clutter. , 2018, , .		10
86	REAL TIME OBJECT DELIMITERS EXTRACTION FOR ENVIRONMENT REPRESENTATION IN DRIVING SCENARIOS. , 2009, , .		10
87	Enhanced Perception for Autonomous Driving Using Semantic and Geometric Data Fusion. Sensors, 2022, 22, 5061.	2.1	10
88	Obstacle Detection for Mobile Robots, Using Dense Stereo Reconstruction. , 2007, , .		9
89	Curb Detection Based on Elevation Maps from Dense Stereo. , 2007, , .		9
90	Real-time pedestrian classification exploiting 2D and 3D information. IET Intelligent Transport Systems, 2008, 2, 201.	1.7	9

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91	Development of an omnidirectional stereo vision system. , 2013, , .		9
92	Superpixel-based obstacle segmentation from dense stereo urban traffic scenarios using intensity, depth and optical flow information. , 2014, , .		9
93	Automatic Recognition of the Hepatocellular Carcinoma from Ultrasound Images using Complex Textural Microstructure Co-Occurrence Matrices (CTMCM). , 2018, , .		9
94	A Multi Patch Warping Approach for Improved Stereo Block Matching. , 2017, , .		9
95	Ultrasonography Contribution to Hepatic Steatosis Quantification. Possibilities of Improving this Method through Computerized Analysis of Ultrasonic Image. , 2006, , .		8
96	Cut-in maneuver recognition and behavior generation using Bayesian networks and fuzzy logic. , 2012, , .		8
97	On-road position estimation by probabilistic integration of visual cues. , 2012, , .		8
98	Real-time pedestrian detection in urban scenarios. , 2014, , .		8
99	Multi-class segmentation for traffic scenarios at over 50 FPS. , 2014, , .		8
100	Aggregate road surface based environment representation using Digital Elevation Maps. , 2014, , .		8
101	Modeling and tracking of dynamic obstacles for logistic plants using omnidirectional stereo vision. , 2015, , .		8
102	Online cross-calibration of camera and LIDAR. , 2017, , .		8
103	Multi-task Network for Panoptic Segmentation in Automated Driving. , 2019, , .		8
104	Semantic Cameras for 360-Degree Environment Perception in Automated Urban Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 17271-17283.	4.7	8
105	Obstacle detection based on the hybrid road plane under the weak calibration conditions. , 2008, , .		7
106	Automatic detection of liver capsule using Gabor Filters. Applications in steatosis quantification. , 2009, , .		7
107	Improving accuracy for Ego vehicle motion estimation using epipolar geometry. , 2009, , .		7
108	Texture analysis within contrast enhanced abdominal CT images. , 2009, , .		7

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109	Mixed road surface model for driving assistance systems. , 2010, , .		7
110	Fog assistance on smart mobile devices. , 2014, , .		7
111	Improved autonomous load handling with stereo cameras. , 2015, , .		7
112	Systems of nonlinear algebraic equations with unique solution. Numerical Algorithms, 2015, 68, 367-376.	1.1	7
113	Animal detection from traffic scenarios based on monocular color vision. , 2017, , .		7
114	Semantic segmentation-based stereo reconstruction with statistically improved long range accuracy. , 2017, , .		7
115	Semantic information based vehicle relative orientation and taillight detection. , 2018, , .		7
116	Hepatocellular Carcinoma Recognition in Ultrasound Images Using Textural Descriptors and Classical Machine Learning. , 2019, , .		7
117	Camera motion estimation using monocular and stereo-vision. , 2008, , .		6
118	Automatic one step extrinsic calibration of a multi layer laser scanner relative to a stereo camera. , 2010, , .		6
119	Fast vision based ego-motion estimation from stereo sequences — A GPU approach. , 2011, , .		6
120	Influence of Expert-Dependent Variability over the Performance of Noninvasive Fibrosis Assessment in Patients with Chronic Hepatitis C by Means of Texture Analysis. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-9.	0.7	6
121	The Role of the Multiresolution Textural Features in Improving the Characterization and Recognition of the Liver Tumors, Based on Ultrasound Images. , 2012, , .		6
122	Part-based pedestrian detection using HoG features and vertical symmetry. , 2012, , .		6
123	Improving local stereo algorithms using binary shifted windows, fusion and smoothness constraint. , 2015, , .		6
124	A study of the impact of HOG and LBP based temporal association on far infrared pedestrian detection. , 2016, , .		6
125	Fusion Scheme for Semantic and Instance-level Segmentation. , 2018, , .		6
126	Efficient Instance and Semantic Segmentation for Automated Driving. , 2019, , .		6

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127	Dot Matrix OCR for Bottle Validity Inspection. , 2019, , .		6
128	Real-Time Panoptic Segmentation with Prototype Masks for Automated Driving. , 2020, , .		6
129	Fast Panoptic Segmentation with Soft Attention Embeddings. Sensors, 2022, 22, 783.	2.1	6
130	Local Difference Probability (LDP)-Based Environment Adaptive Algorithm for Unmanned Ground Vehicle. IEEE Transactions on Intelligent Transportation Systems, 2006, 7, 282-292.	4.7	5
131	Calibration Accuracy Assessment Methods for Stereovision Sensors Used in Vehicles. , 2007, , .		5
132	On-board stereo sensor for intersection driving assistance architecture and specification. , 2009, , .		5
133	Real time stereo vision based pedestrian detection using full body contours. , 2009, , .		5
134	Pillars detection for side viewed vehicles. , 2010, , .		5
135	Vision based three-dimensional vehicle motion detection by minimizing nonlinear functions. , 2010, , .		5
136	Real-time semi-global matching using segmentation and plane fitting for improved accuracy on the GPU. , 2011, , .		5
137	Spatio-temporal reasoning for traffic scene understanding. , 2011, , .		5
138	Exponential image enhancement in daytime fog conditions. , 2014, , .		5
139	Scan window based pedestrian recognition methods improvement by search space and scale reduction. , 2014, , .		5
140	Multi-level on-board data fusion for 2D safety enhanced by 3D perception for AGVs. , 2015, , .		5
141	Fast traffic scene segmentation using multi-range features from multi-resolution filtered and spatial context channels. , 2016, , .		5
142	Improving stereo reconstruction by sub-pixel correction using histogram matching. , 2016, , .		5
143	Semi-automatic image annotation of street scenes. , 2017, , .		5
144	A Fast Ransac Based Approach for Computing the Orientation of Obstacles in Traffic Scenes. , 2018, , .		5

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145	Hepatocellular Carcinoma Segmentation within Ultrasound Images using Convolutional Neural Networks. , 2019, , .		5
146	Automatic Extrinsic Calibration of LIDAR and Monocular Camera Images. , 2019, , .		5
147	Integration of Real-Time Image Fusion in the Robotic-Assisted Treatment of Hepatocellular Carcinoma. Biology, 2020, 9, 397.	1.3	5
148	Non-invasive Steatosis Assessment through the Computerized Processing of Ultrasound Images: Attenuation versus First Order Texture Parameters. IFMBE Proceedings, 2011, , 184-189.	0.2	5
149	AN ALGORITHM FOR SOLVING SOME NONLINEAR SYSTEMS WITH APPLICATIONS TO EXTREMUM PROBLEMS. Taiwanese Journal of Mathematics, 2012, 16, .	0.2	5
150	A structured medical text field of DICOM 3.0 transesophageal echocardiography image file for database implementation. , 0, , .		4
151	Intelligent road detection based on local averaging classifier in real-time environments. , 0, , .		4
152	Templates implementation for structured DICOM diagnosis reporting in echocardiography. , 2005, , .		4
153	Comparison between attenuation coefficient computed on the ultrasound image and a biological marker, adiponectin, in the diagnosis of steatosis in non-alcoholic fatty liver disease. , 2008, , .		4
154	Ultrasonographic diagnosis of nonalcoholic steatohepatitis based on the quantitative evaluation of the ultrasound beam behavior into the liver. , 2008, , .		4
155	Kidney CT image segmentation using multi-feature EM algorithm, based on Gabor filters. , 2008, , .		4
156	Optical flow A combined local-global approach using L1 norm. , 2010, , .		4
157	Non-invasive steatosis assessment in NASH through the computerized processing of ultrasound images: Attenuation versus textural parameters. , 2010, , .		4
158	Advanced classification methods for improving the automatic diagnosis of the hepatocellular carcinoma, based on ultrasound images. , 2010, , .		4
159	An improved PCA type algorithm applied in face recognition. , 2010, , .		4
160	A comparative study of pedestrian detection methods using classical Haar and HoG features versus bag of words model computed from Haar and HoG features. , 2011, , .		4
161	Automatic recognition of low earth orbit objects from image sequences. , 2011, , .		4
162	Iterative Methods for Obtaining Energy-Minimizing Parametric Snakes with Applications to Medical Imaging. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-11.	0.7	4

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163	A solution for probabilistic inference and tracking of obstacles classification in urban traffic scenarios. , 2012, , .		4
164	Optimizing the Census Transform on CUDA enabled GPUs. , 2012, , .		4
165	Application specific hardware architecture for high-throughput short-length LDPC decoders. , 2013, , .		4
166	Pedestrian detection in the context of multiple-sensor data alignment for far-infrared and stereo vision sensors. , 2015, , .		4
167	Fast obstacle detection using U-disparity maps with stereo vision. , 2015, , .		4
168	A Lane Assessment Method Using Visual Information Based on a Dynamic Bayesian Network. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2015, 19, 225-239.	2.6	4
169	Traffic scene segmentation based on boosting over multimodal low, intermediate and high order multi-range channel features. , 2017, , .		4
170	An approach for segmenting 3D LiDAR data using multi-volume grid structures. , 2017, , .		4
171	Systems of nonlinear algebraic equations with positive solutions. Journal of Inequalities and Applications, 2017, 2017, 178.	0.5	4
172	Semantic Segmentation Learning for Autonomous UAVs using Simulators and Real Data. , 2019, , .		4
173	Building Pedestrian Contour Hierarchies for Improving Detection in Traffic Scenes. Lecture Notes in Computer Science, 2009, , 154-163.	1.0	4
174	Stereo and Mono Depth Estimation Fusion for an Improved and Fault Tolerant 3D Reconstruction. , 2021, , .		4
175	DICOM compliant environment for structured reporting in echocardiography. , 2003, , .		3
176	MULTI-CLASSIFICATION FOR ROAD DETECTION IN UNSUPERVISED ENVIRONMENT. , 2003, , .		3
177	A proposal for structured diagnosis reporting in echocardiography, using a DICOM compliant environment. , 0, , .		3
178	Human Body Detection and Tracking in Video Sequences Using Chamfer Matching. , 2007, , .		3
179	A Stereovision-Based Lane Detector for Marked and Non-Marked Urban Roads. , 2007, , .		3
180	Exploring the textural parameters obtained from ultrasound images for modeling the liver pathological stages in the evolution towards hepatocellular carcinoma. , 2008, , .		3

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181	Curb segments detection with temporal filtering for urban driving scenarios. , 2008, , .		3
182	Improving the Textural Model of the Hepatocellular Carcinoma Using Dimensionality Reduction Methods. , 2009, , .		3
183	Camera response estimation. Radiometric calibration. , 2009, , .		3
184	Real-time environment representation based on Occupancy Grid temporal analysis using a Dense Stereo-Vision System. , 2010, , .		3
185	The diagnostic performance of attenuation coefficient computed on the ultrasound image compared to a biochemical marker — SteatoTest — for steatosis quantification in non-alcoholic fatty liver disease. , 2010, , .		3
186	Experimenting various classification techniques for improving the automatic diagnosis of the malignant liver tumors, based on ultrasound images. , 2010, , .		3
187	SIM, a Semantic Instrumentation and Monitoring Solution for Large Scale Reasoning Systems. , 2011, , .		3
188	An efficient segmentation method for ultrasound images based on a semi-supervised approach and patch-based features. , 2011, , .		3
189	Environment perception using dynamic polylines and particle based occupancy grids. , 2011, , .		3
190	Stereovision on mobile devices for obstacle detection in low speed traffic scenarios. , 2013, , .		3
191	Stereovision for obstacle detection on smart mobile devices: First results. , 2013, , .		3
192	Modeling unstructured environments with dynamic persistence grids and object delimiters in urban traffic scenarios. , 2013, , .		3
193	Flexible solution for modeling and tracking generic dynamic 3D environments. , 2013, , .		3
194	Discovering the cirrhosis grades from ultrasound images by using textural features and clustering methods. , 2013, , .		3
195	Modeling and tracking of crowded traffic scenes by using policy trees, occupancy grid blocks and Bayesian filters. , 2014, , .		3
196	Colorectal cancer recognition from ultrasound images, using complex textural microstructure cooccurrence matrices, based on Laws' features. , 2015, , .		3
197	Fisheye optics for omnidirectional stereo camera performance evaluation for AGV applications. , 2015, , .		3
198	Cooperative application for lane change maneuver on Smart Mobile devices. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
199	A stereovision based rear-end collision warning system on mobile devices. , 2016, , .		3
200	A Deep Learning Approach For Pedestrian Segmentation In Infrared Images. , 2018, , .		3
201	A 3D Convolutional Neural Network for Light Field Depth Estimation. , 2019, , .		3
202	Assisting Navigation in Homogenous Fog. , 2014, , .		3
203	A Comparison Study on Replacing Stereo Disparity with LiDAR in Visual Odometry Methods. , 2020, , .		3
204	Averaged unfiltered electrocardiograms in the investigation of late potentials. , 0, , .		2
205	Retrieval of DICOM echocardiographic images using the diagnosis and biological structure features as search keywords. , 0, , .		2
206	Implementation of a configurable controller for an AC drive control: a case study. , 0, , .		2
207	Statistical methods for automatic segmentation of elastographic images. , 2008, , .		2
208	CityACC â€œ On the way towards an intelligent autonomous driving. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 9534-9539.	0.4	2
209	Global map building based on occupancy grids detected from dense stereo in urban environments. , 2009, , .		2
210	A practical method for ego vehicle motion estimation from video. , 2009, , .		2
211	Performance evaluation of the textural analysis algorithms in liver fibrosis detection using ultrasound software phantoms. , 2010, , .		2
212	Detection of anatomical structures on ultrasound liver images using Gabor filters. , 2010, , .		2
213	The role of the superior order GLCM and of the generalized cooccurrence matrices in the characterization and automatic diagnosis of the hepatocellular carcinoma, based on ultrasound images. , 2011, , .		2
214	Vision based obstacle tracking in urban traffic environments. , 2011, , .		2
215	Texture analysis as a noninvasive tool for fibrosis assessment in chronic hepatitis C. influence of expert dependent variability over the performance of texture analysis. , 2011, , .		2
216	Speed estimation for scene objects using stereo visual odometry methods. , 2013, , .		2

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217	Local information statistics of LBP and HOG for pedestrian detection. , 2013, , .		2
218	Vision-based tracking of multiple objects in dynamic unstructured environments using free-form obstacle delimiters. , 2013, , .		2
219	Tracking multiple objects in traffic scenarios using free-form obstacle delimiters and particle filters. , 2013, , .		2
220	Real-time driving assistant application for Android-based mobile devices. , 2014, , .		2
221	Vision algorithms and embedded solution for pedestrian detection with far infrared camera. , 2014, , .		2
222	The role of the Textural Microstructure Cooccurrence Matrices in the classification of the abdominal tumors, based on ultrasound images. , 2014, , .		2
223	Direct formulas for stereo-based visual odometry error modeling. , 2015, , .		2
224	Traffic light detection on mobile devices. , 2015, , .		2
225	Real-time multi-resolution digital elevation map creation using the sensor model of a stereovision sensor. , 2016, , .		2
226	FPGA-based stereo vision hardware for generating dense disparity maps. , 2016, , .		2
227	Optimizing Census-based Semi Global Matching by genetic algorithms. , 2016, , .		2
228	Patch warping and local constraints for improved block matching stereo correspondence. , 2016, , .		2
229	A Method for Automatic Pole Detection from Urban Video Scenes using Stereo Vision. , 2018, , .		2
230	Real-time Stereo Reconstruction Failure Detection and Correction using Deep Learning. , 2018, , .		2
231	HCC Recognition Within Ultrasound Images Employing Advanced Textural Features with Deep Learning Techniques. , 2019, , .		2
232	Curb detection in urban traffic scenarios using LiDARs point cloud and semantically segmented color images. , 2019, , .		2
233	Real Time Environment Representation in Driving Scenarios Based on Object Delimiters Extraction. Lecture Notes in Electrical Engineering, 2011, , 255-267.	0.3	2
234	Low Complexity Approach for High Throughput Belief-Propagation based Decoding of LDPC Codes. Advances in Electrical and Computer Engineering, 2013, 13, 69-72.	0.5	2

#	ARTICLE	IF	CITATIONS
235	Video Semantic Segmentation leveraging Dense Optical Flow. , 2020, , .		2
236	A unified method for improving long-range accuracy of stereo and monocular depth estimation algorithms. , 2020, , .		2
237	Time-Space Transformers for Video Panoptic Segmentation. , 2022, , .		2
238	Visual Odometry Drift Reduction Based on LiDAR Point Clouds Alignment. , 2021, , .		2
239	Feature based retrieval of echocardiographic images using DICOM structured reporting. , 0, , .		1
240	Efficient Classification Method for Autonomous Driving Application. Lecture Notes in Computer Science, 2004, , 228-235.	1.0	1
241	Structured reporting of echocardiography images in a DICOM environment. , 0, , .		1
242	Real-Time 3D Environment Reconstruction Using High Precision Trinocular Stereovision. , 2006, , .		1
243	The imagistic textural model of the prostatic adenocarcinoma. , 2008, , .		1
244	Postoperative risk classification of prostate cancer patients using support vector machines. , 2008, , .		1
245	Meta-classifier for pedestrian attitude recognition. , 2008, , .		1
246	Adaptive and robust road tracking system based on stereovision and particle filtering. , 2008, , .		1
247	Intersection representation enhancement by sensorial data and digital map alignment. , 2010, , .		1
248	Improving localization accuracy based on Lightweight Visual Odometry. , 2010, , .		1
249	Probabilistic Approach for Automated Reasoning for Lane Identification in Intelligent Vehicles. , 2011, , .		1
250	Real-Time Image Rectification and Stereo Reconstruction System on the GPU. , 2011, , .		1
251	Refining object recognition using scene specific object appearance frequencies. , 2011, , .		1
252	Robust visual odometry using stereo reconstruction error model. , 2012, , .		1

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253	Label Transfer by Measuring Compactness. IEEE Transactions on Image Processing, 2013, 22, 4711-4723.	6.0	1
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