Sergiu S Nedevschi

List of Publications by Year
in descending order

312	3,462	331259	315357
papers	citations	21 h-index	38 g-index

319	319	319	2442
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	HCC Recognition Within B-Mode and CEUS Images Using Traditional and Deep Learning Techniques. IFMBE Proceedings, 2022, , 113-120.	0.2	0
3	Fast Panoptic Segmentation with Soft Attention Embeddings. Sensors, 2022, 22, 783.	2.1	6
4	Semantic Cameras for 360-Degree Environment Perception in Automated Urban Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 17271-17283.	4.7	8
5	Time-Space Transformers for Video Panoptic Segmentation. , 2022, , .		2
6	Enhanced Perception for Autonomous Driving Using Semantic and Geometric Data Fusion. Sensors, 2022, 22, 5061.	2.1	10
7	Pedestrian Street-Cross Action Recognition in Monocular Far Infrared Sequences. IEEE Access, 2021, 9, 74302-74324.	2.6	28
8	Hepatocellular Carcinoma Automatic Diagnosis within CEUS and B-Mode Ultrasound Images Using Advanced Machine Learning Methods. Sensors, 2021, 21, 2202.	2.1	14
9	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
10	Weakly Supervised Semantic Segmentation Learning on UAV Video Sequences. , 2021, , .		1
11	Visual Odometry Drift Reduction Based on LiDAR Point Clouds Alignment. , 2021, , .		2
12	Pose Based Pedestrian Street Cross Action Recognition in Infrared Images. , 2021, , .		0
13	MVGNet: 3D object detection using Multi-Volume Grid representation in urban traffic scenarios. , 2021, , .		0
14	Stereo and Mono Depth Estimation Fusion for an Improved and Fault Tolerant 3D Reconstruction. , 2021, , .		4
15	Real-Time Semantic Segmentation-Based Stereo Reconstruction. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1514-1524.	4.7	22
16	Integration of Real-Time Image Fusion in the Robotic-Assisted Treatment of Hepatocellular Carcinoma. Biology, 2020, 9, 397.	1.3	5
17	Narrowing the semantic gap between real and synthetic data. , 2020, , .		0
18	Teeth Detection and Dental Problem Classification in Panoramic X-Ray Images using Deep Learning and Image Processing Techniques. , 2020, , .		37

#	Article	IF	Citations
19	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
20	Stabilization and Validation of 3D Object Position Using Multimodal Sensor Fusion and Semantic Segmentation. Sensors, 2020, 20, 1110.	2.1	57
21	A Critical Evaluation of Aerial Datasets for Semantic Segmentation. , 2020, , .		0
22	Toolbox for Azure Kinect COTS Device to be Used in Automatic Screening of Idiopathic Scoliosis. Advances in Intelligent Systems and Computing, 2020, , 544-552.	0.5	1
23	A Comparison Study on Replacing Stereo Disparity with LiDAR in Visual Odometry Methods. , 2020, , .		3
24	Video Semantic Segmentation leveraging Dense Optical Flow. , 2020, , .		2
25	Efficient spatio-temporal point convolution. , 2020, , .		0
26	Real-Time Panoptic Segmentation with Prototype Masks for Automated Driving. , 2020, , .		6
27	A unified method for improving long-range accuracy of stereo and monocular depth estimation algorithms. , 2020, , .		2
28	SGM-MDE: Semi-global optimization for classification-based monocular depth estimation. , 2020, , .		1
29	The Role of Convolutional Neural Networks in the Automatic Recognition of the Hepatocellular Carcinoma, Based on Ultrasound Images. IFMBE Proceedings, 2019, , 169-175.	0.2	1
30	Object Detection in Monocular Infrared Images Using Classification â€“ Regresion Deep Learning Architectures. , 2019, , .		1
31	Improved 3D Perception based on Color Monocular Camera for MAV exploiting Image Semantic Segmentation. , 2019, , .		0
32	Efficient Instance and Semantic Segmentation for Automated Driving. , 2019, , .		6
33	Multi-Object Tracking of 3D Cuboids Using Aggregated Features. , 2019, , .		23
34	HCC Recognition Within Ultrasound Images Employing Advanced Textural Features with Deep Learning Techniques. , 2019, , .		2
35	Hepatocellular Carcinoma Segmentation within Ultrasound Images using Convolutional Neural Networks. , 2019, , .		5
36	Hepatocellular Carcinoma Recognition in Ultrasound Images Using Textural Descriptors and Classical Machine Learning. , 2019, , .		7

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37	Dot Matrix OCR for Bottle Validity Inspection. , 2019, , .		6
38	Automatic Extrinsic Calibration of LIDAR and Monocular Camera Images. , 2019, , .		5
39	A 3D Convolutional Neural Network for Light Field Depth Estimation. , 2019, , .		3
40	Semantic Segmentation Learning for Autonomous UAVs using Simulators and Real Data. , 2019, , .		4
41	Obstacle Detection Using a Voxel Octree Representation. , 2019, , .		1
42	Multi-task Network for Panoptic Segmentation in Automated Driving. , 2019, , .		8
43	Curb detection in urban traffic scenarios using LiDARs point cloud and semantically segmented color images. , 2019, , .		2
44	The PAN-Robots Project: Advanced Automated Guided Vehicle Systems for Industrial Logistics. IEEE Robotics and Automation Magazine, 2018, 25, 55-64.	2.2	51
45	A Method for Automatic Pole Detection from Urban Video Scenes using Stereo Vision. , 2018, , .		2
46	Fusion Scheme for Semantic and Instance-level Segmentation. , 2018, , .		6
47	A Fast Ransac Based Approach for Computing the Orientation of Obstacles in Traffic Scenes. , 2018, , .		5
48	Environment Perception Architecture using Images and 3D Data. , 2018, , .		0
49	Fusing semantic labeled camera images and 3D LiDAR data for the detection of urban curbs. , 2018, , .		12
50	Real-time Semantic Segmentation-based Depth Upsampling using Deep Learning. , 2018, , .		0
51	Semantic information based vehicle relative orientation and taillight detection. , 2018, , .		7
52	Multimodal sparse LIDAR object tracking in clutter. , 2018, , .		10
53	Real-time Stereo Reconstruction Failure Detection and Correction using Deep Learning. , 2018, , .		2
54	A Deep Learning Approach For Pedestrian Segmentation In Infrared Images. , 2018, , .		3

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55	Automatic Recognition of the Hepatocellular Carcinoma from Ultrasound Images using Complex Textural Microstructure Co-Occurrence Matrices (CTMCM). , 2018, , .		9
56	Traffic scene segmentation based on boosting over multimodal low, intermediate and high order multi-range channel features. , 2017, , .		4
57	Semi-automatic image annotation of street scenes. , 2017, , .		5
58	Vehicle taillight detection and tracking using deep learning and thresholding for candidate generation. , 2017, , .		16
59	Online cross-calibration of camera and LIDAR. , 2017, , .		8
60	An approach for segmenting 3D LiDAR data using multi-volume grid structures. , 2017, , .		4
61	Real-time object detection using a sparse 4-layer LIDAR. , 2017, , .		12
62	Lazy feature extraction and boosted classifiers for object detection. , 2017, , .		0
63	Animal detection from traffic scenarios based on monocular color vision. , 2017, , .		7
64	The role of the cooccurrence matrix based on complex extended microstructures in discovering the cirrhosis severity grades within US images. , 2017, , .		0
65	Fast Boosting Based Detection Using Scale Invariant Multimodal Multiresolution Filtered Features. , 2017, , .		12
66	Super-sensor for 360-degree environment perception: Point cloud segmentation using image features. , 2017, , .		30
67	Semantic segmentation-based stereo reconstruction with statistically improved long range accuracy. , 2017, , .		7
68	Systems of nonlinear algebraic equations with positive solutions. Journal of Inequalities and Applications, 2017, 2017, 178.	0.5	4
69	A Multi Patch Warping Approach for Improved Stereo Block Matching. , 2017, , .		9
70	Real-time multi-resolution digital elevation map creation using the sensor model of a stereovision sensor. , 2016, , .		2
71	Semantic Channels for Fast Pedestrian Detection. , 2016, , .		44
72	Fast traffic scene segmentation using multi-range features from multi-resolution filtered and spatial context channels. , 2016, , .		5

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73	Improving stereo reconstruction by sub-pixel correction using histogram matching. , 2016, , .		5
74	Contrast restoration of foggy images on the ZYNQ embedded platform. , 2016, , .		1
75	A study of the impact of HOG and LBP based temporal association on far infrared pedestrian detection. , 2016, , .		6
76	FPGA-based stereo vision hardware for generating dense disparity maps. , 2016, , .		2
77	A stereovision based rear-end collision warning system on mobile devices. , 2016, , .		3
78	Optimizing Census-based Semi Global Matching by genetic algorithms. , 2016, , .		2
79	Stereoscopic scene flow estimation with global motion prior. , 2016, , .		0
80	Enhancing digital maps to support reasoning on traffic sign compliance. , 2016, , .		0
81	Patch warping and local constraints for improved block matching stereo correspondence. , 2016, , .		2
82	Generic Obstacle Detection for Mobile Devices Using a Dynamic Intermediate Representation. Advances in Intelligent Systems and Computing, 2016, , 629-639.	0.5	0
83	Fusion of stereo and structure from motion for enhancing PatchMatch stereo. , 2015, , .		1
84	Colorectal cancer recognition from ultrasound images, using complex textural microstructure cooccurrence matrices, based on Laws' features. , 2015, , .		3
85	Body gesture validation using multi-dimensional dynamic time warping on Kinect data. , 2015, , .		0
86	Modeling and tracking of dynamic obstacles for logistic plants using omnidirectional stereo vision. , 2015, , .		8
87	Multi-level on-board data fusion for 2D safety enhanced by 3D perception for AGVs. , 2015, , .		5
88	Improved autonomous load handling with stereo cameras. , 2015, , .		7
89	Fisheye optics for omnidirectional stereo camera performance evaluation for AGV applications. , 2015, , .		3
90	Improving local stereo algorithms using binary shifted windows, fusion and smoothness constraint. , 2015, , .		6

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91	New sub-pixel interpolation functions for accurate real-time stereo-matching algorithms. , 2015, , .		13
92	Probabilistic inverse sensor model based Digital Elevation Map creation for an omnidirectional stereovision system. , 2015, , .		1
93	Obstacle localization and recognition for autonomous forklifts using omnidirectional stereovision. , 2015, , .		1
94	Pedestrian detection in the context of multiple-sensor data alignment for far-infrared and stereo vision sensors. , 2015, , .		4
95	Shape improvement of traffic pedestrian hypotheses by means of stereo-vision and superpixels. , 2015, , .		0
96	Fast obstacle detection using U-disparity maps with stereo vision. , 2015, , .		4
97	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
98	P0995 : The use of the attenuation coefficient computed on the ultrasonic image could improve the specificity of the classical ultrasonographic examination for the assessment of steatosis grade in diffuse liver diseases patients. Journal of Hepatology, 2015, 62, S720.	1.8	0
99	Detecting Curvilinear Features Using Structure Tensors. IEEE Transactions on Image Processing, 2015, 24, 3874-3887.	6.0	18
100	Exponential Contrast Restoration in Fog Conditions for Driving Assistance. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2257-2268.	4.7	58
101	A stereovision based approach for detecting and tracking lane and forward obstacles on mobile devices. , 2015, , .		14
102	Direct formulas for stereo-based visual odometry error modeling. , 2015, , .		2
103	Cooperative application for lane change maneuver on Smart Mobile devices. , 2015, , .		3
104	Traffic light detection on mobile devices. , 2015, , .		2
105	Fast Pedestrian Detection for Mobile Devices. , 2015, , .		13
106	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
107	Systems of nonlinear algebraic equations with unique solution. Numerical Algorithms, 2015, 68, 367-376.	1.1	7
108	Semi-Supervised Segmentation of Ultrasound Images Based on Patch Representation and Continuous Min Cut. PLoS ONE, 2014, 9, e100972.	1.1	32

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109	Real-time driving assistant application for Android-based mobile devices. , 2014, , .		2
110	Pedestrian detection in infrared images using Aggregated Channel Features. , 2014, , .		12
111	Vision Based Motion Estimation of Obstacles in Dynamic Unstructured Environments. Lecture Notes in Electrical Engineering, 2014, , 235-249.	0.3	0
112	Real-time pedestrian detection in urban scenarios. , 2014, , .		8
113	Modeling and tracking of crowded traffic scenes by using policy trees, occupancy grid blocks and Bayesian filters. , 2014, , .		3
114	Multi-class segmentation for traffic scenarios at over 50 FPS. , 2014, , .		8
115	Vision algorithms and embedded solution for pedestrian detection with far infrared camera. , 2014, , .		2
116	The role of the Textural Microstructure Cooccurrence Matrices in the classification of the abdominal tumors, based on ultrasound images. , 2014, , .		2
117	Moving rigid objects segmentation in 3D dynamic traffic scenes using a stereovision system. , 2014, , .		1
118	Vision-based autonomous load handling for automated guided vehicles. , 2014, , .		15
119	Omnidirectional stereo vision using fisheye lenses. , 2014, , .		25
120	Exponential image enhancement in daytime fog conditions. , 2014, , .		5
121	Word Channel Based Multiscale Pedestrian Detection without Image Resizing and Using Only One Classifier. , 2014, , .		41
122	Superpixel-based obstacle segmentation from dense stereo urban traffic scenarios using intensity, depth and optical flow information. , 2014, , .		9
123	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
124	Obstacle detection using stereovision for Android-based mobile devices. , 2014, , .		10
125	Fog assistance on smart mobile devices. , 2014, , .		7
126	Pedestrian detection in infrared images using HOG, LBP, gradient magnitude and intensity feature channels. , 2014, , .		11

#	Article	IF	Citations
127	Aggregate road surface based environment representation using Digital Elevation Maps. , 2014, , .		8
128	Diseased tissue area detection and delimitation, by fusion between finite difference methods and textural analysis. , 2014, , .		0
129	Scan window based pedestrian recognition methods improvement by search space and scale reduction. , 2014, , .		5
130	UV disparity based obstacle detection and pedestrian classification in urban traffic scenarios. , 2014, , .		17
131	Multi-feature Real Time Pedestrian Detection from Dense Stereo SORT-SGM Reconstructed Urban Traffic Scenarios. , 2014, , .		1
132	Assisting Navigation in Homogenous Fog. , 2014, , .		3
133	Motion Estimation Using the Correlation Transform. IEEE Transactions on Image Processing, 2013, 22, 3260-3270.	6.0	56
134	Label Transfer by Measuring Compactness. IEEE Transactions on Image Processing, 2013, 22, 4711-4723.	6.0	1
135	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
136	Pedestrian detection from traffic scenes based on probabilistic models of the contour fragments. , 2013, , .		0
137	Application specific hardware architecture for high-throughput short-length LDPC decoders. , 2013, , .		4
138	Stereovision on mobile devices for obstacle detection in low speed traffic scenarios. , 2013, , .		3
139	Stereovision for obstacle detection on smart mobile devices: First results. , 2013, , .		3
140	Image context classification based on visual codebook feature boosting. , 2013, , .		0
141	A generic statistical approach for emission computed tomography reconstruction. , 2013, , .		0
142	Object recognition in wikimage data based on local invariant image features. , 2013, , .		1
143	Image based fog detection and visibility estimation for driving assistance systems. , 2013, , .		40
144	Modeling unstructured environments with dynamic persistence grids and object delimiters in urban traffic scenarios. , 2013, , .		3

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145	Flexible solution for modeling and tracking generic dynamic 3D environments. , 2013, , .		3
146	Pedestrians detection using a cascade of LBP and HOG classifiers. , 2013, , .		12
147	Speed estimation for scene objects using stereo visual odometry methods. , 2013, , .		2
148	Development of an omnidirectional stereo vision system. , 2013, , .		9
149	An experiment on relative rotation estimation from distant points with monocular vision. , 2013, , .		1
150	Local information statistics of LBP and HOG for pedestrian detection. , 2013, , .		2
151	Discovering the cirrhosis grades from ultrasound images by using textural features and clustering methods. , 2013, , .		3
152	Pedestrian detection in traffic scenes using multi-attitude classifiers. , 2013, , .		1
153	Vision-based tracking of multiple objects in dynamic unstructured environments using free-form obstacle delimiters. , 2013, , .		2
154	Tracking multiple objects in traffic scenarios using free-form obstacle delimiters and particle filters. , 2013, , .		2
155	Urban traffic dense-stereo obstacle classification using boosting over visual codebook features. , 2013, , .		1
156	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
157	Real-time dynamic environment perception in driving scenarios using difference fronts. , 2012, , .		10
158	Accurate localization of mobile robot under the weakly callibrated motion model. , 2012, , .		0
159	Stereo based visual odometry in difficult traffic scenes. , 2012, , .		10
160	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
161	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
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	Robust visual odometry using stereo reconstruction error model. , 2012, , .		1
164	The Role of the Multiresolution Textural Features in Improving the Characterization and Recognition of the Liver Tumors, Based on Ultrasound Images. , 2012, , .		6
165	Part-based pedestrian detection using HoG features and vertical symmetry. , 2012, , .		6
166	Cut-in maneuver recognition and behavior generation using Bayesian networks and fuzzy logic. , 2012, , .		8
167	PCA type algorithm applied in face recognition. , 2012, , .		10
168	A solution for probabilistic inference and tracking of obstacles classification in urban traffic scenarios. , 2012, , .		4
169	Optimizing the Census Transform on CUDA enabled GPUs. , 2012, , .		4
170	Real-time modeling of dynamic environments in traffic scenarios using a stereo-vision system. , 2012, , .		10
171	On-road position estimation by probabilistic integration of visual cues. , 2012, , .		8
172	SORT-SGM: Subpixel Optimized Real-Time Semiglobal Matching for Intelligent Vehicles. IEEE Transactions on Vehicular Technology, 2012, 61, 1032-1042.	3.9	43
173	Particle Grid Tracking System Stereovision Based Obstacle Perception in Driving Environments. IEEE Intelligent Transportation Systems Magazine, 2012, 4, 6-20.	2.6	22
174	Design of Interpolation Functions for Subpixel-Accuracy Stereo-Vision Systems. IEEE Transactions on Image Processing, 2012, 21, 889-898.	6.0	43
175	AN ALGORITHM FOR SOLVING SOME NONLINEAR SYSTEMS WITH APPLICATIONS TO EXTREMUM PROBLEMS. Taiwanese Journal of Mathematics, 2012, 16, .	0.2	5
176	Probabilistic Approach for Automated Reasoning for Lane Identification in Intelligent Vehicles. , 2011, , .		1
177	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
178	Real-time semi-global matching using segmentation and plane fitting for improved accuracy on the GPU. , 2011, , .		5
179	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
180	Vision based obstacle tracking in urban traffic environments. , 2011, , .		2

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181	Tracking multiple objects in urban traffic environments using dense stereo and optical flow. , 2011, , .		13
182	New results in stereovision based lane tracking. , 2011, , .		13
183	Spatio-temporal reasoning for traffic scene understanding. , 2011, , .		5
184	SIM, a Semantic Instrumentation and Monitoring Solution for Large Scale Reasoning Systems. , 2011, , .		3
185	Fast vision based ego-motion estimation from stereo sequences — A GPU approach. , 2011, , .		6
186	The role of the superior order GLCM in improving the automatic diagnosis of the hepatocellular carcinoma based on ultrasound images. , 2011, , .		0
187	Modeling the behavior of large scale reasoning systems using clustering and regression. , 2011, , .		0
188	Automatic recognition of low earth orbit objects from image sequences. , 2011, , .		4
189	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
190	Stop-line detection and localization method for intersection scenarios. , 2011, , .		17
191	Real-Time Image Rectification and Stereo Reconstruction System on the GPU. , 2011, , .		1
192	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
193	863 COMPARISON BETWEEN THREE NON-INVASIVE METHODS FOR THE DIAGNOSIS OF STEATOSIS IN NON-ALCOHOLIC FATTY LIVER DISEASE: ATTENUATION COEFFICIENT COMPUTED ON THE ULTRASOUND IMAGE, ADIPONECTIN AND STEATOTEST. Journal of Hepatology, 2011, 54, S344.	1.8	0
194	Usefulness of textural analysis as a tool for noninvasive liver fibrosis staging. Journal of Medical Ultrasonics (2001), 2011, 38, 105-117.	0.6	10
195	SIM, a Semantic Instrumentation and Monitoring solution for large scale reasoning systems. , 2011, , .		0
196	Refining object recognition using scene specific object appearance frequencies. , 2011, , .		1
197	Curb detection for driving assistance systems: A cubic spline-based approach. , 2011, , .		25
198	Performance prediction using Kernel Canonical Correlation Analysis. , 2011, , .		0

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199	An efficient segmentation method for ultrasound images based on a semi-supervised approach and patch-based features. , 2011, , .		3
200	Lane identification and ego-vehicle accurate global positioning in intersections. , 2011, , .		17
201	The influence of hubness on nearest-neighbor methods in object recognition. , 2011, , .		16
202	Improving image quality by camera signal adaptation to lighting conditions. , 2011, , .		0
203	Environment perception using dynamic polylines and particle based occupancy grids. , 2011, , .		3
204	Intersection safety using lidar and stereo vision sensors. , 2011, , .		29
205	Total variation regularization of local-global optical flow. , 2011, , .		88
206	Linear vs. non linear minimization in stereo visual odometry. , 2011, , .		10
207	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
208	Real Time Environment Representation in Driving Scenarios Based on Object Delimiters Extraction. Lecture Notes in Electrical Engineering, 2011, , 255-267.	0.3	2
209	Detection and Staging of Liver Fibrosis using Additive Logistic Models. , 2011, , .		1
210	The Role of the Feature Extraction Methods in Improving the Textural Model of the Hepatocellular Carcinoma, Based on Ultrasound Images. Communications in Computer and Information Science, 2011, , 496-509.	0.4	0
211	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
212	Performance evaluation of the textural analysis algorithms in liver fibrosis detection using ultrasound software phantoms. , 2010, , .		2
213	Intersection representation enhacement by sensorial data and digital map alignment. , 2010, , .		1
214	Optical flow A combined local-global approach using L1 norm. , 2010, , .		4
215	Automatic one step extrinsic calibration of a multi layer laser scanner relative to a stereo camera. , 2010, , .		6
216	Detection of anatomical structures on ultrasound liver images using Gabor filters. , 2010, , .		2

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217	Particle grid tracking system for stereovision based environment perception. , 2010, , .		15
218	Pillars detection for side viewed vehicles. , 2010, , .		5
219	Mixed road surface model for driving assistance systems. , 2010, , .		7
220	Real-time environment representation based on Occupancy Grid temporal analysis using a Dense Stereo-Vision System. , 2010, , .		3
221	Non-invasive steatosis assessment in NASH through the computerized processing of ultrasound images: Attenuation versus textural parameters. , 2010, , .		4
222	Advanced classification methods for improving the automatic diagnosis of the hepatocellular carcinoma, based on ultrasound images. , 2010, , .		4
223	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
224	Experimenting various classification techniques for improving the automatic diagnosis of the malignant liver tumors, based on ultrasound images. , 2010, , .		3
225	An improved PCA type algorithm applied in face recognition. , 2010, , .		4
226	GPU optimization of the SGM stereo algorithm. , 2010, , .		29
227	Vision based three-dimensional vehicle motion detection by minimizing nonlinear functions. , 2010, , .		5
228	Detection and classification of painted road objects for intersection assistance applications. , 2010, , .		32
229	Real-time semi-global dense stereo solution with improved sub-pixel accuracy. , 2010, , .		34
230	Real-time obstacle detection in complex scenarios using dense stereo vision and optical flow. , 2010, , .		35
231	Improving localization accuracy based on Lightweight Visual Odometry. , 2010, , .		1
232	Localization in urban traffic environment for mobile robots based on stereo real-time Lightweight Visual Odometry. , 2010, , .		0
233	Real-time obstacle detection using dense stereo vision and dense optical flow. , 2010, , .		18
234	RELIABLE LOCALIZATION AND MAP BUILDING BASED ON VISUAL ODOMETRY AND EGO MOTION MODEL IN DYNAMIC ENVIRONMENT. , 2010, , .		1

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235	Tracking multiple objects using particle filters and digital elevation maps. , 2009, , .		21
236	Improving the Textural Model of the Hepatocellular Carcinoma Using Dimensionality Reduction Methods. , 2009, , .		3
237	Camera response estimation. Radiometric calibration. , 2009, , .		3
238	On-board stereo sensor for intersection driving assistance architecture and specification. , 2009, , .		5
239	Automatic detection of liver capsule using Gabor Filters. Applications in steatosis quantification. , 2009, , .		7
240	Stereo-Based Pedestrian Detection for Collision-Avoidance Applications. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 380-391.	4.7	99
241	A framework for object detection, tracking and classification in urban traffic scenarios using stereovision. , 2009, , .		15
242	Improving accuracy for Ego vehicle motion estimation using epipolar geometry. , 2009, , .		7
243	Global map building based on occupancy grids detected from dense stereo in urban environments. , 2009, , .		2
244	Real-time slam based on Hybrid Odometry and LDPDs (Local differential Probability Distances). , 2009, , .		0
245	A practical method for ego vehicle motion estimation from video. , 2009, , .		2
246	Texture analysis within contrast enhanced abdominal CT images. , 2009, , .		7
247	A flexible solution for detection and tracking of multiple objects. , 2009, , .		0
248	Probabilistic Lane Tracking in Difficult Road Scenarios Using Stereovision. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 272-282.	4.7	115
249	Correlation between features and classifiers for semantic understanding of pedestrian attitudes in traffic scenes. , 2009, , .		0
250	Real time stereo vision based pedestrian detection using full body contours. , 2009, , .		5
251	ICTD state of the union: Where have we reached and where are we headed. , 2009, , .		20
252	Stereovision-Based Sensor for Intersection Assistance. , 2009, , 129-163.		12

#	Article	IF	Citations
253	Building Pedestrian Contour Hierarchies for Improving Detection in Traffic Scenes. Lecture Notes in Computer Science, 2009, , 154-163.	1.0	4
254	Classification of the Hepatocellular Carcinoma in Ultrasound Images Based on the Imagistic Textural Model of This Tumor. IFMBE Proceedings, 2009, , 267-272.	0.2	1
255	Mixtures of Classifiers for Recognizing Standing and Running Pedestrians. Lecture Notes in Computer Science, 2009, , 345-355.	1.0	0
256	REAL TIME OBJECT DELIMITERS EXTRACTION FOR ENVIRONMENT REPRESENTATION IN DRIVING SCENARIOS. , 2009, , .		10
257	Real-time pedestrian classification exploiting 2D and 3D information. IET Intelligent Transport Systems, 2008, 2, 201.	1.7	9
258	Object tracking from stereo sequences using particle filter. , 2008, , .		14
259	The imagistic textural model of the prostatic adenocarcinoma. , 2008, , .		1
260	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
261	Exploring the textural parameters obtained from ultrasound images for modeling the liver pathological stages in the evolution towards hepatocellular carcinoma. , 2008, , .		3
262	Postoperatory risk classification of prostate cancer patients using support vector machines. , 2008, , .		1
263	Meta-classifier for pedestrian attitude recognition. , 2008, , .		1
264	Ultrasonographic diagnosis of nonalcoholic steatohepatitis based on the quantitative evaluation of the ultrasound beam behavior into the liver. , 2008, , .		4
265	Adaptive and robust road tracking system based on stereovision and particle filtering. , 2008, , .		1
266	Statistical methods for automatic segmentation of elastographic images. , 2008, , .		2
267	Camera motion estimation using monocular and stereo-vision. , 2008, , .		6
268	Kidney CT image segmentation using multi-feature EM algorithm, based on Gabor filters. , 2008, , .		4
269	Forward collision detection using a Stereo Vision System. , 2008, , .		11
270	Obstacle detection based on the hybrid road plane under the weak calibration conditions. , 2008, , .		7

#	Article	IF	Citations
271	A stereovision-based probabilistic lane tracker for difficult road scenarios. , 2008, , .		10
272	Curb Detection Based on a Multi-Frame Persistence Map for Urban Driving Scenarios. , 2008, , .		39
273	Curb segments detection with temporal filtering for urban driving scenarios. , 2008, , .		3
274	CityACC â€“ On the way towards an intelligent autonomous driving. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 9534-9539.	0.4	2
275	Pedestrian Detection and Classification Based on 2D and 3D Information For Driving Assistance Systems. , 2007, , .		0
276	Calibration Accuracy Assessment Methods for Stereovision Sensors Used in Vehicles. , 2007, , .		5
277	Human Body Detection and Tracking in Video Sequences Using Chamfer Matching. , 2007, , .		3
278	Potential of CDMA450 for rural network connectivity. , 2007, 45, 128-135.		16
279	LUT-based Image Rectification Module Implemented in FPGA. , 2007, , .		28
280	Obstacle Detection for Mobile Robots, Using Dense Stereo Reconstruction. , 2007, , .		9
281	Lane Geometry Estimation in Urban Environments Using a Stereovision System. , 2007, , .		16
282	A Sensor for Urban Driving Assistance Systems Based on Dense Stereovision. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	46
283	Road Surface and Obstacle Detection Based on Elevation Maps from Dense Stereo. , 2007, , .		61
284	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
285	Stereovision Based Vehicle Tracking in Urban Traffic Environments. , 2007, , .		26
286	A Stereovision-Based Lane Detector for Marked and Non-Marked Urban Roads. , 2007, , .		3
287	Curb Detection Based on Elevation Maps from Dense Stereo. , 2007, , .		9
288	Real-Time 3D Environment Reconstruction Using High Precision Trinocular Stereovision. , 2006, , .		1

#	Article	IF	Citations
289	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
290	Ultrasonography Contribution to Hepatic Steatosis Quantification. Possibilities of Improving this Method through Computerized Analysis of Ultrasonic Image. , 2006, , .		8
291	ROBUST CLASSIFICATION BASED ON PRIOR OF LOCAL DIFFERENCE PROBABILITY FOR THE UNMANNED GROUND VEHICLES. , 2006, , .		0
292	REAL-TIME FPGA-BASED IMAGE RECTIFICATION SYSTEM. , 2006, , .		0
293	Templates implementation for structured DICOM diagnosis reporting in echocardiography. , 2005, , .		4
294	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
295	Driving environment perception using stereovision. , 2005, , .		22
296	Efficient Classification Method for Autonomous Driving Application. Lecture Notes in Computer Science, 2004, , 228-235.	1.0	1
297	DICOM compliant environment for structured reporting in echocardiography. , 2003, , .		3
298	MULTI-CLASSIFICATION FOR ROAD DETECTION IN UNSUPERVISED ENVIRONMENT. , 2003, , .		3
299	Averaged unfiltered electrocardiograms in the investigation of late potentials. , 0, , .		2
300	A robust and effective method for bidimensional recognition of 2D and 3D objects from intensity images. , 0, , .		0
301	A structured medical text field of DICOM 3.0 transesophageal echocardiography image file for database implementation. , 0, , .		4
302	Retrieval of DICOM echocardiographic images using the diagnosis and biological structure features as search keywords. , 0, , .		2
303	Implementation of a configurable controller for an AC drive control: a case study. , 0, , .		2
304	Intermediate representation in model based recognition using straight line and ellipsoidal arc primitives. , 0, , .		0
305	Feature based retrieval of echocardiographic images using DICOM structured reporting. , 0, , .		1
306	Intelligent road detection based on local averaging classifier in real-time environments. , 0, , .		4

#	Article	IF	Citations
307	High accuracy stereo vision system for far distance obstacle detection. , 0, , .		101
308	3D lane detection system based on stereovision. , 0, , .		85
309	Structured reporting of echocardiography images in a DICOM environment. , 0, , .		1
310	A proposal for structured diagnosis reporting in echocardiography, using a DICOM compliant environment. , 0, , .		3
311	Camera Calibration Method for Far Range Stereovision Sensors Used in Vehicles. , 0, , .		32
312	Increased Accuracy Stereo Approach for 3D Lane Detection. , 0, , .		22