Luis Salgado

List of Publications by Year
in descending order

99 papers	1,281 citations	516561 16 h-index	454834 30 g-index
101 all docs	101 docs citations	101 times ranked	1166 citing authors

#	Article	IF	Citations
1	Efficient spatio-temporal hole filling strategy for Kinect depth maps. Proceedings of SPIE, 2012, , .	0.8	106
2	Depth-Color Fusion Strategy for 3-D Scene Modeling With Kinect. IEEE Transactions on Cybernetics, 2013, 43, 1560-1571.	6.2	85
3	Log-Gabor Filters for Image-Based Vehicle Verification. IEEE Transactions on Image Processing, 2013, 22, 2286-2295.	6.0	74
4	Background foreground segmentation with RGB-D Kinect data: An efficient combination of classifiers. Journal of Visual Communication and Image Representation, 2014, 25, 122-136.	1.7	72
5	Video analysis-based vehicle detection and tracking using an MCMC sampling framework. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.0	52
6	Stabilization of Inverse Perspective Mapping Images based on Robust Vanishing Point Estimation. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	50
7	Image-based on-road vehicle detection using cost-effective Histograms of Oriented Gradients. Journal of Visual Communication and Image Representation, 2013, 24, 1182-1190.	1.7	50
8	Road environment modeling using robust perspective analysis and recursive Bayesian segmentation. Machine Vision and Applications, 2011, 22, 927-945.	1.7	49
9	Homography-based ground plane detection using a single on-board camera. IET Intelligent Transport Systems, 2010, 4, 149.	1.7	44
10	Real-Time Vanishing Point Estimation in Road Sequences Using Adaptive Steerable Filter Banks. , 2007, , 840-848.		39
11	Robust multiple lane road modeling based on perspective analysis. , 2008, , .		38
12	Real-time lane tracking using Rao-Blackwellized particle filter. Journal of Real-Time Image Processing, 2016, 11, 179-191.	2.2	37
13	DMD: A Large-Scale Multi-modal Driver Monitoring Dataset for Attention and Alertness Analysis. Lecture Notes in Computer Science, 2020, , 387-405.	1.0	37
14	Automatic car plate detection and recognition through intelligent vision engineering. , 0, , .		36
15	Robust Vehicle Detection Through Multidimensional Classification for on Board Video Based Systems. , 2007, , .		30
16	A Benchmarking Framework for Background Subtraction in RGBD Videos. Lecture Notes in Computer Science, 2017, , 219-229.	1.0	30
17	Efficient image segmentation for region-based motion estimation and compensation. IEEE Transactions on Circuits and Systems for Video Technology, 2000, 10, 1029-1039.	5.6	26
18	Line segment detection using weighted mean shift procedures on a 2D slice sampling strategy. Pattern Analysis and Applications, 2011, 14, 149-163.	3.1	26

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19	Adaptive spatio-temporal filter for low-cost camera depth maps. , 2012, , .		20
20	On-board robust vehicle detection and tracking using adaptive quality evaluation. , 2008, , .		19
21	A Study of Feature Combination for Vehicle Detection Based on Image Processing. Scientific World Journal, The, 2014, 2014, 1-13.	0.8	19
22	Dust tracking techniques applied to the STARDUST facility: First results. Fusion Engineering and Design, 2014, 89, 2098-2102.	1.0	16
23	Real-time robust estimation of vanishing points through nonlinear optimization. , 2010, , .		14
24	HOG-like gradient-based descriptor for visual vehicle detection. , 2012, , .		14
25	Foreground Segmentation in Depth Imagery Using Depth and Spatial Dynamic Models for Video Surveillance Applications. Sensors, 2014, 14, 1961-1987.	2.1	13
26	Non-linear optimization for robust estimation of vanishing points. , 2010, , .		12
27	Simultaneous estimation of vanishing points and their converging lines using the EM algorithm. Pattern Recognition Letters, 2011, 32, 1691-1700.	2.6	12
28	Sequence Independent very Fast Mode Decision Algorithm on H.264/AVC Baseline Profile. , 2006, , .		11
29	Multi-sensor background subtraction by fusing multiple region-based probabilistic classifiers. Pattern Recognition Letters, 2014, 50, 23-33.	2.6	11
30	Measurement-based reclustering for multiple object tracking with particle filters. , 2009, , .		10
31	On-road visual vehicle tracking using Markov chain Monte Carlo particle filtering with metropolis sampling. International Journal of Automotive Technology, 2012, 13, 955-961.	0.7	10
32	Advanced background modeling with RGB-D sensors through classifiers combination and inter-frame foreground prediction. Machine Vision and Applications, 2014, 25, 1197.	1.7	10
33	Efficient image stabilization and automatic target detection in aerial FLIR sequences. , 2006, 6234, 184.		9
34	Robust 3D people tracking and positioning system in a semi-overlapped multi-camera environment. , 2008, , .		9
35	A new strategy based on adaptive mixture of Gaussians for real-time moving objects segmentation. Proceedings of SPIE, 2008, , .	0.8	9
36	Vehicle detection and tracking using homography-based plane rectification and particle filtering. , 2010, , .		9

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37	Motion estimation through efficient matching of a reduced number of reliable singular points. , 2008, , .		8
38	Adaptive background modeling in multicamera system for real-time object detection. Optical Engineering, 2011, 50, 127206.	0.5	8
39	Accurate depth-color scene modeling for 3D contents generation with low cost depth cameras. , 2012, , .		8
40	Image computing techniques to extrapolate data for dust tracking in case of an experimental accident simulation in a nuclear fusion plant. Review of Scientific Instruments, 2016, 87, 013504.	0.6	8
41	Fast Mode Decision on H.264/AVC Main Profile Encoding Based on PSNR Predictions. , 2006, , .		7
42	Color-based 3D particle filtering for robust tracking in heterogeneous environments. , 2008, , .		7
43	Target Detection Through Robust Motion Segmentation and Tracking Restrictions in Aerial Flir Images. , 2007, , .		6
44	A region based approach to background modeling in a wavelet multi-resolution framework. , 2011, , .		6
45	Shadowgraph Technique Applied to STARDUST Facility for Dust Tracking: First Results. Physics Procedia, 2015, 62, 97-101.	1.2	6
46	EL BUSCA and the value of signals in the diagnosis of dysmorphic syndromes: good and bad handles in computer assisted differential diagnosis.. Journal of Medical Genetics, 1990, 27, 446-450.	1.5	5
47	I-WAY, intelligent co-operative system for road safety. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	5
48	Real-time vehicle detection and tracking based on perspective and non-perspective space cooperation. , 2009, , .		5
49	Detection and tracking of traffic signs using a recursive Bayesian decision framework. , 2011, , .		5
50	Robust road modeling based on a hierarchical bipartite graph. , 2008, , .		4
51	Robust automatic target tracking based on a Bayesian ego-motion compensation framework for airborne FLIR imagery. , 2009, , .		4
52	Adaptive multi-camera system for real time object detection. , 2011, , .		4
53	Low-cost efficient Interactive Whiteboard. , 2012, , .		4
54	Special issue on real-time computer vision in smart cities. Journal of Real-Time Image Processing, 2015, 10, 723-724.	2.2	4

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55	Automatic Feature-Based Stabilization of Video with Intentional Motion through a Particle Filter. Lecture Notes in Computer Science, 2008, , 356-367.	1.0	4
56	Model-based global motion estimation and compensation for very low bit-rate video coding in dynamic monocular systems. , 1995, , .		3
57	Motorway surveillance through stereo computer vision. , 0, , .		3
58	Efficient prediction error regions determination for region-based video coding through shape adaptive DCT. , 0, , .		3
59	Automatic aerial target detection and tracking system in airborne FLIR images based on efficient target trajectory filtering. , 2007, , .		3
60	Fast mode decision on H.264/AVC baseline profile for real-time performance. Journal of Real-Time Image Processing, 2008, 3, 61-75.	2.2	3
61	Object Tracking from Unstabilized Platforms by Particle Filtering with Embedded Camera Ego Motion. , 2009, , .		3
62	Multiple object tracking using an automatic variable-dimension particle filter. , 2010, , .		3
63	Plane rectification through robust vanishing point tracking using the Expectation-Maximization algorithm. , 2010, , .		3
64	Region-dependent vehicle classification using PCA features. , 2012, , .		3
65	Video based vehicle detection and tracking for driver assistance systems. Securitas Vialis, 2015, 7, 41-49.	0.1	3
66	Challenges of Large-Scale Multi-Camera Datasets for Driver Monitoring Systems. Sensors, 2022, 22, 2554.	2.1	3
67	Contourless region-based video coding for very low bit-rates. , 0, , .		2
68	Automatic antibiograms inhibition halo determination through texture and directional filtering analysis. , 0, , .		2
69	Unsupervised segmentation algorithm of hrtem images. , 0, , .		2
70	Adaptive segmentation for gymnastic exercises based on change detection over multiresolution combined differences. , 0, , .		2
71	On-board video based system for robust road modeling. , 2008, , .		2
72	Scalable software architecture for on-line multi-camera video processing. Proceedings of SPIE, 2011, , .	0.8	2

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73	Traffic Sign Detection and Tracking Using Robust 3D Analysis. , 2012, , .		2
74	Anomaly Detection in Crowded Scenarios Using Local and Global Gaussian Mixture Models. Lecture Notes in Computer Science, 2017, , 363-374.	1.0	2
75	Detection of anomalies in surveillance scenarios using mixture models. , 2017, , .		2
76	User-adaptive Eyelid Aperture Estimation for Blink Detection in Driver Monitoring Systems. , 2020, , .		2
77	Aerial Moving Target Detection Based on Motion Vector Field Analysis. , 2007, , 990-1001.		2
78	Adaptive palette determination for color images based on Kohonen networks. , 0, , .		1
79	<title>Motion parametric modeling for very low bitrate video coding</title>. , 1998, 3309, 564.		1
80	Model-based analytical FOE determination. Signal Processing: Image Communication, 1999, 14, 785-798.	1.8	1
81	A monocular vision system for autonomous vehicle guidance. , 0, , .		1
82	Region-based control points determination for multivector motion description. IEEE Transactions on Circuits and Systems for Video Technology, 2001, 11, 954-962.	5.6	1
83	Dynamic object segmentation for outdoor analysis. , 2002, 4671, 593.		1
84	Low-cost VRML based architecture for adaptive and user customized virtual visits to art galleries. , 2010, , .		1
85	A real-time software framework for driver monitoring systems: software architecture and use cases. , 2021, , .		1
86	3D Tracking Using Multi-view Based Particle Filters. Lecture Notes in Computer Science, 2008, , 785-795.	1.0	1
87	<title>Pyramidal encoding for packet video transmission</title>. , 1990, 1360, 1822.		0
88	An algorithm for FOE localization. , 0, , .		0
89	<title>Region-based multivector motion estimation for efficient very low bitrate video coding</title>. , 1998, 3309, 552.		0
90	Determination of control point sets for motion description based on motion interpolation accuracy constraints. , 0, , .		0

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91	Multiresolution image segmentation for region-based motion estimation and compensation. , 1999, , .		0
92	Adaptive morphological time stamp segmentation based on efficient global motion estimation. , 0, , .		0
93	Video Synchronization Based on Displacements of Center of Motion. , 2009, , .		0
94	Efficient hybrid monocular-stereo approach to on-board video-based traffic sign detection and tracking. Proceedings of SPIE, 2012, , .	0.8	0
95	Refined facial disparity maps for automatic creation of 3D avatars. , 2012, , .		0
96	Multi-resolution model-based traffic sign detection and tracking. Proceedings of SPIE, 2012, , .	0.8	0
97	Multi-camera Very Wide Baseline Feature Matching Based on View-Adaptive Junction Detection. , 2012, , .		0
98	Histograms of oriented gradients for fast on-board vehicle verification. , 2014, , .		0
99	Fast Mode Decision Based on Activity Segmentation in H.264/AVC Encoding. Lecture Notes in Computer Science, 2006, , 146-152.	1.0	0