

Robert Laganiere

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

1,946
citations

567281

15
h-index

361022

35
g-index

75
all docs

75
docs citations

75
times ranked

1761
citing authors

#	ARTICLE	IF	CITATIONS
1	Long Hands gesture recognition system: 2 step gesture recognition with machine learning and geometric shape analysis. Multimedia Tools and Applications, 2022, 81, 40311-40342.	3.9	4
2	Study of UAV tracking based on CNN in noisy environment. Multimedia Tools and Applications, 2021, 80, 5351-5372.	3.9	3
3	Learning efficient single stage pedestrian detection by squeeze-and-excitation network. Neural Computing and Applications, 2021, 33, 16697-16712.	5.6	6
4	PolarNet: Accelerated Deep Open Space Segmentation using Automotive Radar in Polar Domain. , 2021, , .		2
5	Point Cloud based Hierarchical Deep Odometry Estimation. , 2021, , .		2
6	Convolutional neural networks for multispectral pedestrian detection. Signal Processing: Image Communication, 2020, 82, 115764.	3.2	17
7	Fast Human Head and Shoulder Detection Using Convolutional Networks and RGBD Data. , 2020, , .		2
8	Single-Stage End-to-End Temporal Activity Detection in Untrimmed Videos. , 2020, , .		6
9	A Scale-Aware YOLO Model for Pedestrian Detection. Lecture Notes in Computer Science, 2020, , 15-26.	1.3	5
10	A Monocular Forward Leading Vehicle Distance Estimation using Mobile Devices. , 2020, , .		2
11	Multi-scale predictions fusion for robust hand detection and classification. Multimedia Tools and Applications, 2019, 78, 35633-35650.	3.9	3
12	Real-Time Panoramic Depth Maps from Omni-directional Stereo Images for 6 DoF Videos in Virtual Reality. , 2019, , .		28
13	Hard negative mining for correlation filters in visual tracking. Machine Vision and Applications, 2019, 30, 487-506.	2.7	14
14	Additive depth maps, a compact approach for shape completion of single view depth maps. Graphical Models, 2019, 104, 101030.	2.4	1
15	Real-Time UAV Tracking Based on PSR Stability. , 2019, , .		8
16	A fast and robust homography scheme for real-time planar target detection. Journal of Real-Time Image Processing, 2018, 15, 739-758.	3.5	16
17	Exploiting Target Data to Learn Deep Convolutional Networks for Scene-Adapted Human Detection. IEEE Transactions on Image Processing, 2018, 27, 1418-1432.	9.8	19
18	A Mode-Switching Motion Control System for Reactive Interaction and Surface Following Using Industrial Robots. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 670-682.	13.1	12

#	ARTICLE	IF	CITATIONS
19	Online Model Adaptation for UAV Tracking with Convolutional Neural Network. , 2018, , .		4
20	Deep People Detection: A Comparative Study of SSD and LSTM-decoder. , 2018, , .		5
21	Scale-Aware RPN for Vehicle Detection. Lecture Notes in Computer Science, 2018, , 487-499.	1.3	3
22	SqueezeMap: Fast Pedestrian Detection on a Low-Power Automotive Processor Using Efficient Convolutional Neural Networks. , 2017, , .		9
23	Audio-visual attention: Eye-tracking dataset and analysis toolbox. , 2017, , .		11
24	Homography Estimation from Image Pairs with Hierarchical Convolutional Networks. , 2017, , .		35
25	Creating Immersive Virtual Reality Scenes Using a Single RGB-D Camera. Lecture Notes in Computer Science, 2017, , 221-230.	1.3	0
26	Recognizing People and Their Activities in Surveillance Video: Technology State of Readiness and Roadmap. , 2016, , .		3
27	Video summarization of surveillance cameras. , 2016, , .		8
28	The Visual Object Tracking VOT2016 Challenge Results. Lecture Notes in Computer Science, 2016, , 777-823.	1.3	312
29	Local part model for action recognition. Image and Vision Computing, 2016, 46, 18-28.	4.5	8
30	The Thermal Infrared Visual Object Tracking VOT-TIR2016 Challenge Results. Lecture Notes in Computer Science, 2016, , 824-849.	1.3	32
31	SURFACE FOLLOWING WITH AN RGB-D VISION-GUIDED ROBOTIC SYSTEM FOR AUTOMATED AND RAPID VEHICLE INSPECTION. International Journal on Smart Sensing and Intelligent Systems, 2016, 9, 419-447.	0.7	4
32	Scalable Kernel Correlation Filter with Sparse Feature Integration. , 2015, , .		55
33	Improving pedestrian detection with selective gradient self-similarity feature. Pattern Recognition, 2015, 48, 2364-2376.	8.1	16
34	Gradient Boundary Histograms for Action Recognition. , 2015, , .		15
35	Real-time embedded age and gender classification in unconstrained video. , 2015, , .		24
36	A General Framework for Fast 3D Object Detection and Localization Using an Uncalibrated Camera. , 2015, , .		1

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37	Safe Close-Proximity and Physical Human-Robot Interaction Using Industrial Robots. , 2015, , .		8
38	Adaptive Robotic Contour Following from Low Accuracy RGB-D Surface Profiling and Visual Servoing. , 2014, , .		6
39	Fast Target Recognition on Mobile Devices: Revisiting Gaussian Elimination for the Estimation of Planar Homographies. , 2014, , .		4
40	Age and gender recognition using informative features of various types. , 2014, , .		16
41	Trajectory planning for surface following with a manipulator under RGB-D visual guidance. , 2013, , .		12
42	Calibration of a network of Kinect sensors for robotic inspection over a large workspace. , 2013, , .		22
43	Sampling Strategies for Real-Time Action Recognition. , 2013, , .		82
44	Rapid 3D Modeling and Parts Recognition on Automotive Vehicles Using a Network of RGB-D Sensors for Robot Guidance. Journal of Sensors, 2013, 2013, 1-16.	1.1	6
45	Training Binary Descriptors for Improved Robustness and Efficiency in Real-Time Matching. Lecture Notes in Computer Science, 2013, , 288-298.	1.3	3
46	Experimental characterization of two generations of Kinect's depth sensors. , 2012, , .		10
47	JUDOCA: JUnction Detection Operator Based on Circumferential Anchors. IEEE Transactions on Image Processing, 2012, 21, 2109-2118.	9.8	17
48	Objective Assessment of Multiresolution Image Fusion Algorithms for Context Enhancement in Night Vision: A Comparative Study. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 94-109.	13.9	546
49	Vision-based detection and labelling of multiple vehicle parts. , 2011, , .		15
50	Matching cylindrical panorama sequences using planar reprojections. , 2011, , .		3
51	Salient features based on visual attention for multi-view vehicle classification. , 2011, , .		5
52	Projective rectification of image triplets. Signal, Image and Video Processing, 2010, 4, 389-397.	2.7	1
53	Concealed Weapon Detection: A Data Fusion Perspective. Journal of Aerospace Computing, Information, and Communication, 2010, 7, 196-209.	0.8	6
54	Real-Time Virtual Viewpoint Generation on the GPU for Scene Navigation. , 2010, , .		5

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55	Automatic Text Segmentation for Movie Subtitles. Lecture Notes in Computer Science, 2010, , 295-298.	1.3	3
56	People detection and tracking using the Explorative Particle Filtering. , 2009, , .		8
57	On the Use of Ray-tracing for Viewpoint Interpolation in Panoramic Imagery. , 2009, , .		6
58	A feature-based metric for the quantitative evaluation of pixel-level image fusion. Computer Vision and Image Understanding, 2008, 109, 56-68.	4.7	65
59	Iterative Computation of Camera Paths. , 2008, , .		0
60	Video summarization from spatio-temporal features. , 2008, , .		40
61	Orientation and Pose recovery from Spherical Panoramas. , 2007, , .		14
62	Registration of IR and EO Video Sequences based on Frame Difference. , 2007, , .		1
63	Constructing Face Image Logs that are Both Complete and Concise. , 2007, , .		20
64	Performance Evaluation of Scale-Interpolated Hessian-Laplace and Haar Descriptors for Feature Matching. , 2007, , .		1
65	Models from image triplets using epipolar gradient features. Image and Vision Computing, 2007, 25, 1699-1708.	4.5	2
66	Phase congruence measurement for image similarity assessment. Pattern Recognition Letters, 2007, 28, 166-172.	4.2	76
67	Context enhancement through infrared vision: a modified fusion scheme. Signal, Image and Video Processing, 2007, 1, 293-301.	2.7	22
68	Joint multiregion segmentation and parametric estimation of image motion by basis function representation and level set evolution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 782-793.	13.9	37
69	Concealed weapon detection and visualization in a synthesized image. Pattern Analysis and Applications, 2006, 8, 375-389.	4.6	20
70	Detecting and matching feature points. Journal of Visual Communication and Image Representation, 2005, 16, 38-54.	2.8	42
71	Temporal Synchronization of Video Sequences in Theory and in Practice. , 2005, , .		45
72	Feature Based Cut Detection with Automatic Threshold Selection. Lecture Notes in Computer Science, 2004, , 410-418.	1.3	31

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73	A MORPHOLOGICAL OPERATOR FOR CORNER DETECTION. <i>Pattern Recognition</i> , 1998, 31, 1643-1652.	8.1	34
74	Direct Bayesian interpretation of visual motion. <i>Robotics and Autonomous Systems</i> , 1995, 14, 247-254.	5.1	9