

Jorge Batista

List of Publications by Year in descending order

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77
papers

7,240
citations

623574

14
h-index

345118

36
g-index

77
all docs

77
docs citations

77
times ranked

4771
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Speed Tracking with Kernelized Correlation Filters. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 583-596.	9.7	4,528
2	Exploiting the Circulant Structure of Tracking-by-Detection with Kernels. Lecture Notes in Computer Science, 2012, , 702-715.	1.0	1,278
3	Semantic Segmentation with Second-Order Pooling. Lecture Notes in Computer Science, 2012, , 430-443.	1.0	202
4	The Visual Object Tracking VOT2014 Challenge Results. Lecture Notes in Computer Science, 2015, , 191-217.	1.0	136
5	Pedestrian detection combining RGB and dense LIDAR data. , 2014, , .		120
6	Reconstructing PASCAL VOC. , 2014, , .		114
7	Globally optimal solution to multi-object tracking with merged measurements. , 2011, , .		97
8	Beyond Hard Negative Mining: Efficient Detector Learning via Block-Circulant Decomposition. , 2013, , .		68
9	Free-Form Region Description with Second-Order Pooling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 1177-1189.	9.7	50
10	Simulating pursuit with machine experiments with robots and artificial vision. IEEE Transactions on Automation Science and Engineering, 1998, 14, 1-18.	2.4	44
11	Estimation of vehicle velocity and traffic intensity using rectified images. , 2008, , .		42
12	A Drowsiness and Point of Attention Monitoring System for Driver Vigilance. , 2007, , .		36
13	Beyond the shortest path: Unsupervised domain adaptation by Sampling Subspaces along the Spline Flow. , 2015, , .		36
14	A vision-based system for measuring the displacements of large structures: Simultaneous adaptive calibration and full motion estimation. Mechanical Systems and Signal Processing, 2016, 72-73, 678-694.	4.4	34
15	Calibration methodology of a vision system for measuring the displacements of long-deck suspension bridges. Structural Control and Health Monitoring, 2012, 19, 385-404.	1.9	24
16	A nonparametric Riemannian framework on tensor field with application to foreground segmentation. Pattern Recognition, 2012, 45, 3997-4017.	5.1	22
17	Iterative multistep explicit camera calibration. IEEE Transactions on Automation Science and Engineering, 1999, 15, 897-917.	2.4	21
18	Wrongway Drivers Detection Based on Optical Flow. , 2007, , .		21

#	ARTICLE	IF	CITATIONS
19	Accurate single view model-based head pose estimation. , 2008, , .		20
20	Generative face alignment through 2.5D active appearance models. Computer Vision and Image Understanding, 2013, 117, 250-268.	3.0	18
21	A modified Casteljau algorithm to solve interpolation problems on Stiefel manifolds. Journal of Computational and Applied Mathematics, 2017, 311, 84-99.	1.1	17
22	Simulating pursuit with machines. Experiments with robots and artificial vision. , 0, , .		16
23	Monocular Head Pose Estimation. Lecture Notes in Computer Science, 2008, , 357-368.	1.0	16
24	Rolling Riemannian Manifolds to Solve the Multi-class Classification Problem. , 2013, , .		16
25	Discriminative Bayesian Active Shape Models. Lecture Notes in Computer Science, 2012, , 57-70.	1.0	16
26	Real-time active visual surveillance by integrating peripheral motion detection with foveated tracking. , 0, , .		15
27	Optical Normal Flow Estimation on Log-polar Images. A Solution for Real-Time Binocular Vision. Real Time Imaging, 1997, 3, 213-228.	1.6	14
28	Semi-intrinsic Mean Shift on Riemannian Manifolds. Lecture Notes in Computer Science, 2012, , 342-355.	1.0	13
29	Robust segmentation for outdoor traffic surveillance. , 2008, , .		12
30	Multi-object tracking using an adaptive transition model particle filter with region covariance data association. , 2008, , .		11
31	A nonparametric Riemannian framework on tensor field with application to foreground segmentation. , 2011, , .		11
32	Lifting Object Detection Datasets into 3D. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 1342-1355.	9.7	11
33	Stereoscopic Depth Perception Using a Model Based on the Primary Visual Cortex. PLoS ONE, 2013, 8, e80745.	1.1	10
34	Non-parametric Bayesian Constrained Local Models. , 2014, , .		10
35	A distributed system for robotic multi-sensor integration. Industrial Metrology, 1990, 1, 217-229.	0.3	9
36	Long Deck Suspension Bridge Monitoring: The Vision System Calibration Problem. Strain, 2012, 48, 108-123.	1.4	9

#	ARTICLE	IF	CITATIONS
37	Ground plane velocity estimation embedding rectification on a particle filter multi-target tracking. , 2009, , .		8
38	Foreground Segmentation via Background Modeling on Riemannian Manifolds. , 2010, , .		8
39	Maintaining the relative positions and orientations of multiple robots using vision. Pattern Recognition Letters, 2001, 22, 1331-1335.	2.6	7
40	Bayesian Constrained Local Models Revisited. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 704-716.	9.7	7
41	Visual behaviors for real-time control of a binocular active vision system. Control Engineering Practice, 1997, 5, 1451-1461.	3.2	6
42	Integration of information from several vision systems for a common task of surveillance. Robotics and Autonomous Systems, 2000, 31, 99-108.	3.0	6
43	Vehicle Occupancy Detection for HOV/HOT Lanes Enforcement. , 2019, , .		6
44	Improving 3D Active Visual Tracking. Lecture Notes in Computer Science, 1999, , 412-431.	1.0	6
45	Real-time human activity monitoring exploring multiple vision sensors. Robotics and Autonomous Systems, 2001, 35, 221-228.	3.0	5
46	Single view head pose estimation. , 2008, , .		5
47	Identity and expression recognition on low dimensional manifolds. , 2009, , .		5
48	Exploring quasi-geodesics on Stiefel manifolds in order to smooth interpolate between domains. , 2017, , .		5
49	Multi-View Fine-Grained Vehicle Classification with Multi-Loss Learning. , 2021, , .		5
50	A kernel particle filter multi-object tracking using gabor-based region covariance matrices. , 2009, , .		4
51	Likelihood-enhanced Bayesian constrained local models. , 2014, , .		4
52	Let the Shape Speak - Discriminative Face Alignment using Conjugate Priors. , 2012, , .		4
53	Pose view stability analysis for camera look angles computation. , 1996, , .		3
54	Multi-source domain adaptation using C_{α} -smooth subspaces interpolation. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
55	Background Modelling on Tensor Field for Foreground Segmentation. , 2010, , .		3
56	Multi-View and Multi-Scale Fine-Grained Vehicle Classification with Channel Convolution Feature Fusion. , 2021, , .		3
57	Combination of several vision sensors for interpretation of human actions. Lecture Notes in Control and Information Sciences, 2000, , 519-528.	0.6	2
58	Using directional statistics to learn cast shadows from a multi-spectral light sources physical model. , 2010, , .		2
59	Estimating Vehicle Velocity Using Image Profiles on Rectified Images. Lecture Notes in Computer Science, 2009, , 64-71.	1.0	2
60	Kernel Based Multi-object Tracking Using Gabor Functions Embedded in a Region Covariance Matrix. Lecture Notes in Computer Science, 2009, , 72-79.	1.0	2
61	Face Alignment Through 2.5D Active Appearance Models. , 2010, , .		2
62	Exploring Workout Repetition Counting and Validation Through Deep Learning. Lecture Notes in Computer Science, 2020, , 3-15.	1.0	2
63	Robust Segmentation Process to Detect Incidents on Highways. Lecture Notes in Computer Science, 2008, , 110-121.	1.0	2
64	Estimating traffic intensity using profile images on rectified images. , 2009, , .		1
65	Biologically inspired computational modeling of motion based on middle temporal area. Paladyn, 2018, 9, 60-71.	1.9	1
66	Gradient Shape Model. International Journal of Computer Vision, 2020, 128, 2828-2848.	10.9	1
67	Simultaneous Identity and Expression Recognition Using Face Geometry on Low Dimensional Manifolds. Lecture Notes in Computer Science, 2009, , 505-512.	1.0	1
68	Bio-inspired Binocular Disparity with Position-Shift Receptive Field. IFIP Advances in Information and Communication Technology, 2010, , 351-358.	0.5	1
69	A Framework for Wrong Way Driver Detection Using Optical Flow. Lecture Notes in Computer Science, 2007, , 1117-1127.	1.0	1
70	Pursuit control in a binocular active vision system using optical flow. , 1996, , .		0
71	Learning moving cast shadows for robust foreground detection in highway scenarios. , 2010, , .		0
72	Towards generic fitting using multiple features Discriminative Active Appearance Models. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
73	Tracking in streamed video by updating globally optimal matchings. , 2010, , .		0
74	Simultaneous vision system calibration and full-motion estimation using a sequence of noisy images from a stereo affine cameras. , 2012, , .		0
75	Bayesian constrained local models with depth data. , 2016, , .		0
76	Cascaded Nonlinear Shape Model Regression. , 2020, , .		0
77	Wheels for Staircases. Lecture Notes in Electrical Engineering, 2017, , 361-371.	0.3	0