

Martial Hebert

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

5,397

citations

38

h-index

73

g-index

91

ext. papers

6,621

ext. citations

5.8

avg. IF

6.04

L-index

#	Paper	IF	Citations
82	CMSNet: Deep Color and Monochrome Stereo. <i>International Journal of Computer Vision</i> , 2022 , 130, 652	10.6	
81	ZePHYR: Zero-shot Pose Hypothesis Rating 2021 ,		3
80	MAPPER: Multi-Agent Path Planning with Evolutionary Reinforcement Learning in Mixed Dynamic Environments 2020 ,		8
79	Direct Fitting of Gaussian Mixture Models 2019 ,		2
78	Meta-Learning to Detect Rare Objects 2019 ,		63
77	DISC: A Large-scale Virtual Dataset for Simulating Disaster Scenarios 2019 ,		4
76	Learning Compositional Representations for Few-Shot Recognition 2019 ,		28
75	Learning safe recovery trajectories with deep neural networks for unmanned aerial vehicles 2018 ,		8
74	PCN: Point Completion Network 2018 ,		160
73	Multi modal pose fusion for monocular flight with unmanned aerial vehicles 2018 ,		1
72	Autonomy infused teleoperation with application to brain computer interface controlled manipulation. <i>Autonomous Robots</i> , 2017 , 41, 1401-1422	3	40
71	Learning robust failure response for autonomous vision based flight 2017 ,		6
70	From Red Wine to Red Tomato: Composition with Context 2017 ,		48
69	Growing a Brain: Fine-Tuning by Increasing Model Capacity 2017 ,		40
68	Cut, Paste and Learn: Surprisingly Easy Synthesis for Instance Detection 2017 ,		167
67	Map-supervised road detection 2016 ,		44
66	Cross-Stitch Networks for Multi-task Learning 2016 ,		333

65	Dealing with small data and training blind spots in the Manhattan world 2016 ,		5
64	Blending of brain-machine interface and vision-guided autonomous robotics improves neuroprosthetic arm performance during grasping. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016 , 13, 28	5.3	57
63	Trinocular Geometry Revisited. <i>International Journal of Computer Vision</i> , 2016 , 120, 134-152	10.6	6
62	Introspective perception: Learning to predict failures in vision systems 2016 ,		26
61	3DNN: 3D Nearest Neighbor. <i>International Journal of Computer Vision</i> , 2015 , 111, 69-97	10.6	15
60	HerbDisc: Towards lifelong robotic object discovery. <i>International Journal of Robotics Research</i> , 2015 , 34, 3-25	5.7	10
59	Visual chunking: A list prediction framework for region-based object detection 2015 ,		2
58	Efficient Model Evaluation with Bilinear Separation Model 2015 ,		1
57	Watch and learn: Semi-supervised learning of object detectors from videos 2015 ,		50
56	Single Image 3D without a Single 3D Image 2015 ,		11
55	Dense Optical Flow Prediction from a Static Image 2015 ,		89
54	Visual sensing for developing autonomous behavior in snake robots 2014 ,		13
53	Moving object detection with laser scanners. <i>Journal of Field Robotics</i> , 2013 , 30, 17-43	6.7	74
52	Efficient temporal consistency for streaming video scene analysis 2013 ,		31
51	Learning monocular reactive UAV control in cluttered natural environments 2013 ,		150
50	3DNN: Viewpoint Invariant 3D Geometry Matching for Scene Understanding 2013 ,		14
49	Multi-armed recommendation bandits for selecting state machine policies for robotic systems 2013		7
48	Data-Driven 3D Primitives for Single Image Understanding 2013 ,		79

47	Shape-Based Instance Detection Under Arbitrary Viewpoint 2013 , 485-495		2
46	Detection of parking spots using 2D range data 2012 ,		19
45	Occlusion reasoning for object detection under arbitrary viewpoint 2012 ,		32
44	Model recommendation for action recognition 2012 ,		16
43	An integrated system for autonomous robotics manipulation 2012 ,		54
42	Recovering Occlusion Boundaries from an Image. <i>International Journal of Computer Vision</i> , 2011 , 91, 328-346	0.3	102
41	Structure discovery in multi-modal data: A region-based approach 2011 ,		21
40	3-D scene analysis via sequenced predictions over points and regions 2011 ,		71
39	Feature seeding for action recognition 2011 ,		10
38	Learning message-passing inference machines for structured prediction 2011 ,		39
37	From 3D scene geometry to human workspace 2011 ,		125
36	Making specific features less discriminative to improve point-based 3D object recognition 2010 ,		39
35	People helping robots helping people: Crowdsourcing for grasping novel objects 2010 ,		34
34	SCALE SELECTION FOR GEOMETRIC FITTING IN NOISY POINT CLOUDS. <i>International Journal of Computational Geometry and Applications</i> , 2010 , 20, 543-575	0.3	8
33	Blocks World Revisited: Image Understanding Using Qualitative Geometry and Mechanics. <i>Lecture Notes in Computer Science</i> , 2010 , 482-496	0.9	92
32	Onboard contextual classification of 3-D point clouds with learned high-order Markov Random Fields 2009 ,		64
31	Contextual classification with functional Max-Margin Markov Networks 2009 ,		142
30	Geometric reasoning for single image structure recovery 2009 ,		218

29	Occlusion Boundaries from Motion: Low-Level Detection and Mid-Level Reasoning. <i>International Journal of Computer Vision</i> , 2009 , 82, 325-357	10.6	55
28	An empirical study of context in object detection 2009 ,		236
27	Trajectons: Action recognition through the motion analysis of tracked features 2009 ,		120
26	Can similar scenes help surface layout estimation? 2008 ,		7
25	Object Recognition by Integrating Multiple Image Segmentations. <i>Lecture Notes in Computer Science</i> , 2008 , 481-494	0.9	37
24	Closing the loop in scene interpretation 2008 ,		82
23	Towards unsupervised whole-object segmentation: Combining automated matting with boundary detection 2008 ,		18
22	Putting Objects in Perspective. <i>International Journal of Computer Vision</i> , 2008 , 80, 3-15	10.6	307
21	Recovering Occlusion Boundaries from a Single Image 2007 ,		121
20	Recovering Surface Layout from an Image. <i>International Journal of Computer Vision</i> , 2007 , 75, 151-172	10.6	434
19	Toward objective evaluation of image segmentation algorithms. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2007 , 29, 929-44	13.3	515
18	Potential negative obstacle detection by occlusion labeling 2007 ,		18
17	Learning to Find Object Boundaries Using Motion Cues 2007 ,		42
16	Scale Selection for the Analysis of Point-Sampled Curves 2006 ,		10
15	Opportunistic Use of Vision to Push Back the Path-Planning Horizon 2006 ,		9
14	Discriminative Random Fields. <i>International Journal of Computer Vision</i> , 2006 , 68, 179-201	10.6	276
13	Incorporating Background Invariance into Feature-Based Object Recognition 2005 ,		22
12	Measures of Similarity 2005 ,		76

11	Automatic photo pop-up 2005 ,		125
10	Autonomous Driving with Concurrent Goals and Multiple Vehicles: Experiments and Mobility Components. <i>Autonomous Robots</i> , 2002 , 12, 135-156	3	4
9	Autonomous Driving with Concurrent Goals and Multiple Vehicles: Mission Planning and Architecture. <i>Autonomous Robots</i> , 2001 , 11, 103-115	3	6
8	Evolution of a Prototype Lunar Rover: Addition of Laser-Based Hazard Detection, and Results from Field Trials in Lunar Analog Terrain. <i>Autonomous Robots</i> , 1999 , 7, 119-130	3	1
7	Building 3D models from unregistered multiple range images. <i>Systems and Computers in Japan</i> , 1998 , 29, 82-90		
6	Seafloor map generation for autonomous underwater vehicle navigation. <i>Autonomous Robots</i> , 1996 , 3, 145-168	3	19
5	A complete navigation system for goal acquisition in unknown environments. <i>Autonomous Robots</i> , 1995 , 2, 127-145	3	87
4	Techniques for Fast and Accurate Intrasurgical Registration. <i>Computer Aided Surgery</i> , 1995 , 1, 17-29		12
3	Techniques for fast and accurate intrasurgical registration. <i>Journal of Image Guided Surgery</i> , 1995 , 1, 17-29		40
2	Contextual classification with functional Max-Margin Markov Networks		10
1	Geometric reasoning for single image structure recovery		23