

Silvio Savarese

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

6,709
citations

361413
20
h-index

552781
26
g-index

77
all docs

77
docs citations

77
times ranked

4273
citing authors

#	ARTICLE	IF	CITATIONS
1	VideoGasNet: Deep learning for natural gas methane leak classification using an infrared camera. Energy, 2022, 238, 121516.	8.8	18
2	Generating Procedural 3D materials from Images using Neural Networks. , 2022, , .		2
3	Model-Based Object Recognition: Traditional Approach. , 2021, , 807-812.		0
4	Shape from Specularities. , 2021, , 1151-1154.		0
5	ReLMoGen: Integrating Motion Generation in Reinforcement Learning for Mobile Manipulation. , 2021, , .		27
6	Robot Navigation in Constrained Pedestrian Environments using Reinforcement Learning. , 2021, , .		27
7	Deep Affordance Foresight: Planning Through What Can Be Done in the Future. , 2021, , .		19
8	Embodied intelligence via learning and evolution. Nature Communications, 2021, 12, 5721.	12.8	62
9	Topological Planning with Transformers for Vision-and-Language Navigation. , 2021, , .		30
10	Probabilistic Visual Navigation with Bidirectional Image Prediction. , 2021, , .		4
11	iGibson 1.0: A Simulation Environment for Interactive Tasks in Large Realistic Scenes. , 2021, , .		52
12	Learning task-oriented grasping for tool manipulation from simulated self-supervision. International Journal of Robotics Research, 2020, 39, 202-216.	8.5	87
13	Machine vision for natural gas methane emissions detection using an infrared camera. Applied Energy, 2020, 257, 113998.	10.1	62
14	6-PACK: Category-level 6D Pose Tracker with Anchor-Based Keypoints. , 2020, , .		87
15	Making Sense of Vision and Touch: Learning Multimodal Representations for Contact-Rich Tasks. IEEE Transactions on Robotics, 2020, 36, 582-596.	10.3	90
16	Interactive Gibson Benchmark: A Benchmark for Interactive Navigation in Cluttered Environments. IEEE Robotics and Automation Letters, 2020, 5, 713-720.	5.1	81
17	Model-Based Object Recognition: Traditional Approach. , 2020, , 1-5.		0
18	Time-Varying Interaction Estimation Using Ensemble Methods. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	Deep Visual MPC-Policy Learning for Navigation. IEEE Robotics and Automation Letters, 2019, 4, 3184-3191.	5.1	49
20	Making Sense of Vision and Touch: Self-Supervised Learning of Multimodal Representations for Contact-Rich Tasks. , 2019, , .		152
21	VUNet: Dynamic Scene View Synthesis for Traversability Estimation Using an RGB Camera. IEEE Robotics and Automation Letters, 2019, 4, 2062-2069.	5.1	21
22	Generalized Intersection Over Union: A Metric and a Loss for Bounding Box Regression. , 2019, , .		2,262
23	Neural Task Graphs: Generalizing to Unseen Tasks From a Single Video Demonstration. , 2019, , .		42
24	Continuous Relaxation of Symbolic Planner for One-Shot Imitation Learning. , 2019, , .		15
25	Long-term path prediction in urban scenarios using circular distributions. Image and Vision Computing, 2018, 69, 81-91.	4.5	31
26	Gibson Env: Real-World Perception for Embodied Agents. , 2018, , .		317
27	GONet: A Semi-Supervised Deep Learning Approach For Traversability Estimation. , 2018, , .		42
28	Deep Learning Under Privileged Information Using Heteroscedastic Dropout. , 2018, , .		42
29	Multi-Task Domain Adaptation for Deep Learning of Instance Grasping from Simulation. , 2018, , .		70
30	DeformNet: Free-Form Deformation Network for 3D Shape Reconstruction from a Single Image. , 2018, , .		68
31	Weakly Supervised 3D Reconstruction with Adversarial Constraint. , 2017, , .		64
32	Robust single-view instance recognition. , 2016, , .		25
33	Watch-Bot: Unsupervised learning for reminding humans of forgotten actions. , 2016, , .		9
34	Robust real-time tracking combining 3D shape, color, and motion. International Journal of Robotics Research, 2016, 35, 30-49.	8.5	25
35	Watch-n-patch: Unsupervised understanding of actions and relations. , 2015, , .		64
36	Automatic Extrinsic Calibration of Vision and Lidar by Maximizing Mutual Information. Journal of Field Robotics, 2015, 32, 696-722.	6.0	132

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37	Indoor Scene Understanding with Geometric and Semantic Contexts. International Journal of Computer Vision, 2015, 112, 204-220.	15.6	32
38	Automated Progress Monitoring Using Unordered Daily Construction Photographs and IFC-Based Building Information Models. Journal of Computing in Civil Engineering, 2015, 29, .	4.7	235
39	A Bayesian generative model for learning semantic hierarchies. Frontiers in Psychology, 2014, 5, 417.	2.1	6
40	Toward mutual information based place recognition. , 2014, , .		5
41	Shape from Specularities. , 2014, , 726-729.		0
42	Weakly Supervised Learning of Mid-Level Features with Beta-Bernoulli Process Restricted Boltzmann Machines. , 2013, , .		21
43	Understanding Indoor Scenes Using 3D Geometric Phrases. , 2013, , .		125
44	EVA: An efficient vision architecture for mobile systems. , 2013, , .		9
45	Find the Best Path: An Efficient and Accurate Classifier for Image Hierarchies. , 2013, , .		20
46	Object detection, shape recovery, and 3D modelling by depth-encoded hough voting. Computer Vision and Image Understanding, 2013, 117, 1190-1202.	4.7	6
47	Breaking the Chain: Liberation from the Temporal Markov Assumption for Tracking Human Poses. , 2013, , .		15
48	Layout Estimation of Highly Cluttered Indoor Scenes Using Geometric and Semantic Cues. Lecture Notes in Computer Science, 2013, , 489-499.	1.3	22
49	Mobile object detection through client-server based vote transfer. , 2012, , .		10
50	Deformable part models revisited: A performance evaluation for object category pose estimation. , 2011, , .		56
51	Articulated part-based model for joint object detection and pose estimation. , 2011, , .		136
52	Integrated Sequential As-Built and As-Planned Representation with D4AR Tools in Support of Decision-Making Tasks in the AEC/FM Industry. Journal of Construction Engineering and Management - ASCE, 2011, 137, 1099-1116.	3.8	156
53	MEVBench: A mobile computer vision benchmarking suite. , 2011, , .		60
54	Semantic structure from motion. , 2011, , .		101

#	ARTICLE	IF	CITATIONS
55	Detecting and tracking people using an RGB-D camera via multiple detector fusion. , 2011, , .		89
56	Evaluation of image-based modeling and laser scanning accuracy for emerging automated performance monitoring techniques. Automation in Construction, 2011, 20, 1143-1155.	9.8	299
57	Toward Automatic 3D Generic Object Modeling from One Single Image. , 2011, , .		4
58	Learning context for collective activity recognition. , 2011, , .		174
59	Cross-view action recognition via view knowledge transfer. , 2011, , .		205
60	Representations and Techniques for 3D Object Recognition and Scene Interpretation. Synthesis Lectures on Artificial Intelligence and Machine Learning, 2011, 5, 1-169.	0.8	51
61	Hierarchical Classification of Images by Sparse Approximation. , 2011, , .		6
62	Toward coherent object detection and scene layout understanding. , 2010, , .		41
63	Depth-Encoded Hough Voting for Joint Object Detection and Shape Recovery. Lecture Notes in Computer Science, 2010, , 658-671.	1.3	67
64	A multi-view probabilistic model for 3D object classes. , 2009, , .		36
65	Learning a dense multi-view representation for detection, viewpoint classification and synthesis of object categories. , 2009, , .		41
66	A multi-view probabilistic model for 3D object classes. , 2009, , .		3
67	View Synthesis for Recognizing Unseen Poses of Object Classes. Lecture Notes in Computer Science, 2008, , 602-615.	1.3	27
68	Reflections on praxis and facture in a devotional portrait diptych: a computer analysis of the mirror in Hans Memling's Virgin and Child and Maarten van Nieuwenhove. Proceedings of SPIE, 2008, , .	0.8	5
69	3D generic object categorization, localization and pose estimation. , 2007, , .		274
70	3D Reconstruction by Shadow Carving: Theory and Practical Evaluation. International Journal of Computer Vision, 2007, 71, 305-336.	15.6	49
71	Local Shape from Mirror Reflections. International Journal of Computer Vision, 2005, 64, 31-67.	15.6	65
72	What do reflections tell us about the shape of a mirror?. , 2004, , .		25

#	ARTICLE	IF	CITATIONS
73	Recovering Local Shape of a Mirror Surface from Reflection of a Regular Grid. Lecture Notes in Computer Science, 2004, , 468-481.	1.3	9
74	Local Analysis for 3D Reconstruction of Specular Surfaces â€™ Part II. Lecture Notes in Computer Science, 2002, , 759-774.	1.3	26
75	Combining 3D Shape, Color, and Motion for Robust Anytime Tracking. , 0, , .		40
76	Learning Task-Oriented Grasping for Tool Manipulation from Simulated Self-Supervision. , 0, , .		26
77	A Behavioral Approach to Visual Navigation with Graph Localization Networks. , 0, , .		53