Sourav Garg

List of Publications by Year
in descending order

25 papers	689 citations	1163117 8 h-index	1281871 11 g-index
27 all docs	27 docs citations	27 times ranked	316 citing authors

#	Article	IF	Citations
1	Patch-NetVLAD: Multi-Scale Fusion of Locally-Global Descriptors for Place Recognition. , 2021, , .		151
2	LoST? Appearance-Invariant Place Recognition for Opposite Viewpoints using Visual Semantics. , 0, , .		69
3	Semantics for Robotic Mapping, Perception and Interaction: A Survey. Foundations and Trends in Robotics, 2020, 8, 1-224.	6.9	55
4	VPR-Bench: An Open-Source Visual Place Recognition Evaluation Framework with Quantifiable Viewpoint and Appearance Change. International Journal of Computer Vision, 2021, 129, 2136-2174.	15.6	52
5	Semantic–geometric visual place recognition: a new perspective for reconciling opposing views. International Journal of Robotics Research, 2022, 41, 573-598.	8.5	48
6	SeqNet: Learning Descriptors for Sequence-Based Hierarchical Place Recognition. IEEE Robotics and Automation Letters, 2021, 6, 4305-4312.	5.1	47
7	Where Is Your Place, Visual Place Recognition?. , 2021, , .		41
8	Don't Look Back: Robustifying Place Categorization for Viewpoint- and Condition-Invariant Place Recognition. , 2018, , .		30
9	Delta Descriptors: Change-Based Place Representation for Robust Visual Localization. IEEE Robotics and Automation Letters, 2020, 5, 5120-5127.	5.1	26
10	Product counting using images with application to robot-based retail stock assessment. , 2015, , .		24
11	Improving condition- and environment-invariant place recognition with semantic place categorization. , 2017, , .		18
12	OpenSeqSLAM2.0: An Open Source Toolbox for Visual Place Recognition Under Changing Conditions. , 2018, , .		18
13	Look No Deeper: Recognizing Places from Opposing Viewpoints under Varying Scene Appearance using Single-View Depth Estimation. , 2019, , .		17
14	A Hierarchical Dual Model of Environment- and Place-Specific Utility for Visual Place Recognition. IEEE Robotics and Automation Letters, 2021, 6, 6969-6976.	5.1	16
15	MultiRes-NetVLAD: Augmenting Place Recognition Training With Low-Resolution Imagery. IEEE Robotics and Automation Letters, 2022, 7, 3882-3889.	5.1	15
16	Unsupervised Monocular Depth Estimation for Night-Time Images Using Adversarial Domain Feature Adaptation. Lecture Notes in Computer Science, 2020, , 443-459.	1.3	14
17	High-fidelity simulation for evaluating robotic vision performance. , 2016, , .		13
18	An on-line visual human tracking algorithm using SURF-based dynamic object model. , 2013, , .		9

#	Article	IF	Citations
19	RoRD: Rotation-Robust Descriptors and Orthographic Views for Local Feature Matching. , 2021, , .		6
20	Improving Worst Case Visual Localization Coverage via Place-Specific Sub-Selection in Multi-Camera Systems. IEEE Robotics and Automation Letters, 2022, 7, 10112-10119.	5.1	5
21	An occlusion reasoning scheme for monocular pedestrian tracking in dynamic scenes. , 2015, , .		1
22	Early Bird: Loop Closures from Opposing Viewpoints for Perceptually-aliased Indoor Environments. , 2021, , .		1
23	A Hierarchical Frame-by-Frame Association Method Based on Graph Matching for Multi-object Tracking. Lecture Notes in Computer Science, 2015, , 138-150.	1.3	1
24	Improving Road Segmentation in Challenging Domains Using Similar Place Priors. IEEE Robotics and Automation Letters, 2022, 7, 3555-3562.	5.1	1
25	A novel SURF-based algorithm for tracking a &#x2018;Human&#x2019; in a dynamic environment. , 2014, , .		0