

Ian D Reid

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.

159
papers

11,576
citations

45
h-index

106
g-index

175
ext. papers

15,561
ext. citations

5.2
avg, IF

6.84
L-index

#	Paper	IF	Citations
159	MOLTR: Multiple Object Localization, Tracking and Reconstruction From Monocular RGB Videos. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 3341-3348	4.2	2
158	Unsupervised Scale-Consistent Depth Learning from Video. <i>International Journal of Computer Vision</i> , 2021 , 129, 2548-2564	10.6	13
157	Visual localization under appearance change: filtering approaches. <i>Neural Computing and Applications</i> , 2021 , 33, 7325-7338	4.8	0
156	HM ⁴ : Hidden Markov Model With Memory Management for Visual Place Recognition. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 167-174	4.2	1
155	MOTChallenge: A Benchmark for Single-Camera Multiple Target Tracking. <i>International Journal of Computer Vision</i> , 2021 , 129, 845-881	10.6	29
154	Augmentation Network for Generalised Zero-Shot Learning. <i>Lecture Notes in Computer Science</i> , 2021 , 442-458	0.9	
153	Real-time Image Smoothing via Iterative Least Squares. <i>ACM Transactions on Graphics</i> , 2020 , 39, 1-24	7.6	10
152	SG-VAE: Scene Grammar Variational Autoencoder to Generate New Indoor Scenes. <i>Lecture Notes in Computer Science</i> , 2020 , 155-171	0.9	0
151	Meta Learning with Differentiable Closed-form Solver for Fast Video Object Segmentation 2020 ,		1
150	Joint Learning of Social Groups, Individuals Action and Sub-group Activities in Videos. <i>Lecture Notes in Computer Science</i> , 2020 , 177-195	0.9	9
149	NeuRoRA: Neural Robust Rotation Averaging. <i>Lecture Notes in Computer Science</i> , 2020 , 137-154	0.9	8
148	GMS: Grid-Based Motion Statistics for Fast, Ultra-robust Feature Correspondence. <i>International Journal of Computer Vision</i> , 2020 , 128, 1580-1593	10.6	38
147	Depth Based Semantic Scene Completion With Position Importance Aware Loss. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 219-226	4.2	9
146	SPRINT: Subgraph Place Recognition for INtelligent Transportation 2020 ,		1
145	Socially and Contextually Aware Human Motion and Pose Forecasting. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 6033-6040	4.2	11
144	FroDO: From Detections to 3D Objects 2020 ,		11
143	Approximate Fisher Information Matrix to Characterize the Training of Deep Neural Networks. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , 42, 15-26	13.3	6

142	Real-Time Monocular Object-Model Aware Sparse SLAM 2019 ,		18
141	Self-supervised Learning for Single View Depth and Surface Normal Estimation 2019 ,		10
140	Visual SLAM: Why Bundle Adjust? 2019 ,		9
139	Pre and post-hoc diagnosis and interpretation of malignancy from breast DCE-MRI. <i>Medical Image Analysis</i> , 2019 , 58, 101562	15.4	11
138	Learning Deeply Supervised Good Features to Match for Dense Monocular Reconstruction. <i>Lecture Notes in Computer Science</i> , 2019 , 609-624	0.9	2
137	Real-Time Joint Semantic Segmentation and Depth Estimation Using Asymmetric Annotations 2019 ,		26
136	Structure Aware SLAM Using Quadrics and Planes. <i>Lecture Notes in Computer Science</i> , 2019 , 410-426	0.9	8
135	Generalized Intersection Over Union: A Metric and a Loss for Bounding Box Regression 2019 ,		647
134	Scalable Place Recognition Under Appearance Change for Autonomous Driving 2019 ,		15
133	RGBD Based Dimensional Decomposition Residual Network for 3D Semantic Scene Completion 2019 ,		7
132	Multi-Task Structure-Aware Context Modeling for Robust Keypoint-Based Object Tracking. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019 , 41, 915-927	13.3	9
131	Drones count wildlife more accurately and precisely than humans. <i>Methods in Ecology and Evolution</i> , 2018 , 9, 1160-1167	7.7	156
130	Exploring Context with Deep Structured Models for Semantic Segmentation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 1352-1366	13.3	45
129	Dense 3D Face Correspondence. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 1584-1598	13.3	38
128	Bayesian Semantic Instance Segmentation in Open Set World. <i>Lecture Notes in Computer Science</i> , 2018 , 3-18	0.9	7
127	Efficient Dense Point Cloud Object Reconstruction Using Deformation Vector Fields. <i>Lecture Notes in Computer Science</i> , 2018 , 508-524	0.9	12
126	Bootstrapping the Performance of Weakly Supervised Semantic Segmentation 2018 ,		32
125	Multi-modal Cycle-Consistent Generalized Zero-Shot Learning. <i>Lecture Notes in Computer Science</i> , 2018 , 21-37	0.9	84

124	Addressing Challenging Place Recognition Tasks Using Generative Adversarial Networks 2018 ,		14
123	Deep Regression Tracking with Shrinkage Loss. <i>Lecture Notes in Computer Science</i> , 2018 , 369-386	0.9	102
122	Training Medical Image Analysis Systems like Radiologists. <i>Lecture Notes in Computer Science</i> , 2018 , 546-554		17
121	SceneCut: Joint Geometric and Object Segmentation for Indoor Scenes 2018 ,		16
120	Real-Time Tracking of Single and Multiple Objects from Depth-Colour Imagery Using 3D Signed Distance Functions. <i>International Journal of Computer Vision</i> , 2017 , 124, 80-95	10.6	14
119	Deep learning features at scale for visual place recognition 2017 ,		136
118	RRD-SLAM: Radial-distorted rolling-shutter direct SLAM 2017 ,		3
117	2017 ,		7
116	Multi-Object Model-Free Tracking with Joint Appearance and Motion Inference 2017 ,		2
115	Attend in Groups: A Weakly-Supervised Deep Learning Framework for Learning from Web Data 2017 ,		35
114	From Motion Blur to Motion Flow: A Deep Learning Solution for Removing Heterogeneous Motion Blur 2017 ,		129
113	RefineNet: Multi-path Refinement Networks for High-Resolution Semantic Segmentation 2017 ,		959
112	Maximizing Rigidity Revisited: A Convex Programming Approach for Generic 3D Shape Reconstruction from Multiple Perspective Views 2017 ,		9
111	2017 ,		60
110	Smart Mining for Deep Metric Learning 2017 ,		102
109	Dense monocular reconstruction using surface normals 2017 ,		12
108	A branch-and-bound algorithm for checkerboard extraction in camera-laser calibration 2017 ,		3
107	Deep learning for 2D scan matching and loop closure 2017 ,		21

106	Meaningful maps with object-oriented semantic mapping 2017 ,		79
105	Scaling CNNs for High Resolution Volumetric Reconstruction from a Single Image 2017 ,		17
104	DeepSetNet: Predicting Sets with Deep Neural Networks 2017 ,		11
103	Deep Reinforcement Learning for Active Breast Lesion Detection from DCE-MRI. <i>Lecture Notes in Computer Science</i> , 2017 , 665-673	0.9	37
102	Learning Multi-level Region Consistency with Dense Multi-label Networks for Semantic Segmentation 2017 ,		3
101	Unsupervised CNN for Single View Depth Estimation: Geometry to the Rescue. <i>Lecture Notes in Computer Science</i> , 2016 , 740-756	0.9	335
100	Online unsupervised feature learning for visual tracking. <i>Image and Vision Computing</i> , 2016 , 51, 84-94	3.7	11
99	Direct semi-dense SLAM for rolling shutter cameras 2016 ,		21
98	Efficient Point Process Inference for Large-Scale Object Detection 2016 ,		20
97	Measuring the performance of single image depth estimation methods 2016 ,		6
96	Geometrically consistent plane extraction for dense indoor 3D maps segmentation 2016 ,		23
95	. <i>IEEE Transactions on Robotics</i> , 2016 , 32, 1309-1332	6.5	1222
94	Joint Probabilistic Matching Using m-Best Solutions 2016 ,		9
93	Learning Local Image Descriptors with Deep Siamese and Triplet Convolutional Networks by Minimizing Global Loss Functions 2016 ,		11
92	Learning Depth from Single Monocular Images Using Deep Convolutional Neural Fields. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2016 , 38, 2024-39	13.3	604
91	A fast, modular scene understanding system using context-aware object detection 2015 ,		12
90	Real-Time 3D Tracking and Reconstruction on Mobile Phones. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2015 , 21, 557-70	4	22
89	2015 ,		27

88	The k-support norm and convex envelopes of cardinality and rank 2015 ,		6
87	Hierarchical Higher-Order Regression Forest Fields: An Application to 3D Indoor Scene Labelling 2015 ,		11
86	Joint Probabilistic Data Association Revisited 2015 ,		126
85	Joint tracking and segmentation of multiple targets 2015 ,		101
84	Improving Global Multi-target Tracking with Local Updates. <i>Lecture Notes in Computer Science</i> , 2015 , 174-190	0.9	3
83	3D Tracking of Multiple Objects with Identical Appearance Using RGB-D Input 2014 ,		15
82	Hybrid Inference Optimization for robust pose graph estimation 2014 ,		5
81	Regressing Local to Global Shape Properties for Online Segmentation and Tracking. <i>International Journal of Computer Vision</i> , 2014 , 106, 269-281	10.6	4
80	Latent Data Association: Bayesian Model Selection for Multi-target Tracking 2013 ,		25
79	Simultaneous 3D tracking and reconstruction on a mobile phone 2013 ,		18
78	Efficient 3D Scene Labeling Using Fields of Trees 2013 ,		18
77	STAR3D: Simultaneous Tracking and Reconstruction of 3D Objects Using RGB-D Data 2013 ,		24
76	Dense Reconstruction Using 3D Object Shape Priors 2013 ,		75
75	Simultaneous Monocular 2D Segmentation, 3D Pose Recovery and 3D Reconstruction. <i>Lecture Notes in Computer Science</i> , 2013 , 593-606	0.9	20
74	Cognitive visual tracking and camera control. <i>Computer Vision and Image Understanding</i> , 2012 , 116, 457-474	4.3	19
73	3D hand tracking for human computer interaction. <i>Image and Vision Computing</i> , 2012 , 30, 236-250	3.7	33
72	Structured learning of human interactions in TV shows. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 2441-53	13.3	112
71	Cognitive active vision for human identification 2012 ,		1

70	PWP3D: Real-Time Segmentation and Tracking of 3D Objects. <i>International Journal of Computer Vision</i> , 2012 , 98, 335-354	10.6	114
69	On the comparison of uncertainty criteria for active SLAM 2012 ,		50
68	A Unified Energy Minimization Framework for Model Fitting in Depth. <i>Lecture Notes in Computer Science</i> , 2012 , 72-82	0.9	7
67	Stable multi-target tracking in real-time surveillance video 2011 ,		302
66	Shared shape spaces 2011 ,		16
65	Manhattan scene understanding using monocular, stereo, and 3D features 2011 ,		73
64	Automatic Relocalization and Loop Closing for Real-Time Monocular SLAM. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2011 , 33, 1699-712	13.3	63
63	RSLAM: A System for Large-Scale Mapping in Constant-Time Using Stereo. <i>International Journal of Computer Vision</i> , 2011 , 94, 198-214	10.6	121
62	Robust 3D hand tracking for human computer interaction 2011 ,		5
61	Unsupervised learning of a scene-specific coarse gaze estimator 2011 ,		36
60	Nonlinear shape manifolds as shape priors in level set segmentation and tracking 2011 ,		45
59	Automatic Reasoning about Causal Events in Surveillance Video. <i>Eurasip Journal on Image and Video Processing</i> , 2011 , 2011, 1-19	2.5	15
58	Gaze directed camera control for face image acquisition 2011 ,		2
57	COMBINING TRAFFIC SIGN DETECTION WITH 3D TRACKING TOWARDS BETTER DRIVER ASSISTANCE. <i>Series in Computer Vision</i> , 2011 , 425-446		11
56	Understanding Interactions and Guiding Visual Surveillance by Tracking Attention. <i>Lecture Notes in Computer Science</i> , 2011 , 380-389	0.9	3
55	A Dynamic Programming Approach to Reconstructing Building Interiors. <i>Lecture Notes in Computer Science</i> , 2010 , 394-407	0.9	17
54	Planes, trains and automobiles Autonomy for the modern robot 2010 ,		13
53	Real-time tracking of multiple occluding objects using level sets 2010 ,		43

52	Integrating Object Detection with 3D Tracking Towards a Better Driver Assistance System 2010 ,		29
51	Probabilistic surveillance with multiple active cameras 2010 ,		21
50	2010 ,		36
49	2010 ,		23
48	Growing semantically meaningful models for visual SLAM 2010 ,		34
47	Vast-scale Outdoor Navigation Using Adaptive Relative Bundle Adjustment. <i>International Journal of Robotics Research</i> , 2010 , 29, 958-980	5-7	115
46	Multiview segmentation and tracking of dynamic occluding layers. <i>Image and Vision Computing</i> , 2010 , 28, 1022-1030	3-7	5
45	High Five: Recognising human interactions in TV shows 2010 ,		38
44	Modelling pedestrian trajectory patterns with Gaussian processes 2009 ,		74
43	Navigating, Recognizing and Describing Urban Spaces With Vision and Lasers. <i>International Journal of Robotics Research</i> , 2009 , 28, 1406-1433	5-7	88
42	A comparison of loop closing techniques in monocular SLAM. <i>Robotics and Autonomous Systems</i> , 2009 , 57, 1188-1197	3-5	165
41	Video synchronization from human motion using rank constraints. <i>Computer Vision and Image Understanding</i> , 2009 , 113, 891-906	4-3	18
40	A distributed camera system for multi-resolution surveillance 2009 ,		20
39	Global stereo reconstruction under second-order smoothness priors. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2009 , 31, 2115-28	13-3	134
38	Temporally-coherent Novel Video Synthesis Using Texture-based Priors. <i>IPSN Transactions on Computer Vision and Applications</i> , 2009 , 1, 72-81	3-3	
37	Guiding Visual Surveillance by Tracking Human Attention 2009 ,		54
36	PWP3D: Real-time segmentation and tracking of 3D objects 2009 ,		12
35	A Constant-Time Efficient Stereo SLAM System 2009 ,		55

34	Robust Real-Time Visual Tracking Using Pixel-Wise Posteriors. <i>Lecture Notes in Computer Science</i> , 2008 , 831-844	0.9	65
33	Modeling and generating complex motion blur for real-time tracking 2008 ,		19
32	An image-to-map loop closing method for monocular SLAM 2008 ,		25
31	2008 ,		30
30	Automatic Human Behaviour Recognition and Explanation for CCTV Video Surveillance. <i>Security Journal</i> , 2008 , 21, 173-188	1	4
29	Camera calibration from human motion. <i>Image and Vision Computing</i> , 2008 , 26, 851-862	3.7	7
28	Real-Time SLAM Relocalisation 2007 ,		112
27	. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007 ,		24
26	MonoSLAM: real-time single camera SLAM. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2007 , 29, 1052-67	13.3	2013
25	A general method for human activity recognition in video. <i>Computer Vision and Image Understanding</i> , 2006 , 104, 232-248	4.3	105
24	Estimating Gaze Direction from Low-Resolution Faces in Video. <i>Lecture Notes in Computer Science</i> , 2006 , 402-415	0.9	24
23	Automated Alignment of Robotic Pan-Tilt Camera Units Using Vision. <i>International Journal of Computer Vision</i> , 2006 , 68, 219-237	10.6	8
22	Unconstrained Multiple-People Tracking. <i>Lecture Notes in Computer Science</i> , 2006 , 505-514	0.9	14
21	Articulated Body Motion Capture by Stochastic Search. <i>International Journal of Computer Vision</i> , 2005 , 61, 185-205	10.6	274
20	Image interpolation for virtual sports scenarios. <i>Machine Vision and Applications</i> , 2005 , 16, 236-245	2.8	2
19	Self-Calibration of Rotating and Zooming Cameras. <i>International Journal of Computer Vision</i> , 2001 , 45, 107-127	10.6	98
18	Single View Metrology. <i>International Journal of Computer Vision</i> , 2000 , 40, 123-148	10.6	357
17	A plane measuring device. <i>Image and Vision Computing</i> , 1999 , 17, 625-634	3.7	122

16	Transfer of Fixation Using Affine Structure: Extending the Analysis to Stereo. <i>International Journal of Computer Vision</i> , 1998 , 29, 47-58	10.6	4
15	Steering without representation with the use of active fixation. <i>Perception</i> , 1997 , 26, 1519-28	1.2	8
14	The active recovery of 3D motion trajectories and their use in prediction. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1997 , 19, 219-234	13.3	54
13	The Pipe-group Architecture for Real-Time Active Vision. <i>Real Time Imaging</i> , 1997 , 3, 319-330		
12	Self-alignment of a binocular robot. <i>Image and Vision Computing</i> , 1996 , 14, 635-640	3.7	7
11	Projective calibration of a laser-stripe range finder. <i>Image and Vision Computing</i> , 1996 , 14, 659-666	3.7	47
10	Active tracking of foveated feature clusters using affine structure. <i>International Journal of Computer Vision</i> , 1996 , 18, 41-60	10.6	60
9	Goal-directed video metrology. <i>Lecture Notes in Computer Science</i> , 1996 , 647-658	0.9	23
8	Driving saccade to pursuit using image motion. <i>International Journal of Computer Vision</i> , 1995 , 16, 205-228	10.6	57
7	Recognition of parameterized objects from 3D data: a parallel implementation. <i>Image and Vision Computing</i> , 1994 , 12, 573-582	3.7	5
6	Saccade and pursuit on an active head/eye platform. <i>Image and Vision Computing</i> , 1994 , 12, 155-163	3.7	29
5	A modular head/eye platform for real-time reactive vision. <i>Mechatronics</i> , 1993 , 3, 517-535	3	54
4	Model-based recognition and range imaging for a guided vehicle. <i>Image and Vision Computing</i> , 1992 , 10, 197-207	3.7	7
3	Learning texon models for real-time scene context		1
2	Multi-modal Auto-Encoders as Joint Estimators for Robotics Scene Understanding		34
1	Dual-Attention-Guided Network for Ghost-Free High Dynamic Range Imaging. <i>International Journal of Computer Vision</i> , 1	10.6	1