Christopher Russell

List of Publications by Year
in descending order

42 papers	3,138 citations	759233 12 h-index	940533 16 g-index
44 all docs	44 docs citations	44 times ranked	2197 citing authors

#	Article	IF	Citations
1	Associative hierarchical CRFs for object class image segmentation. , 2009, , .		379
2	Counterfactual Explanations Without Opening the Black Box: Automated Decisions and the GDPR. SSRN Electronic Journal, 0, , .	0.4	367
3	Lifting from the Deep: Convolutional 3D Pose Estimation from a Single Image. , 2017, , .		324
4	Explaining Explanations in AI. , 2019, , .		320
5	What, Where and How Many? Combining Object Detectors and CRFs. Lecture Notes in Computer Science, 2010, , 424-437.	1.3	158
6	Graph Cut Based Inference with Co-occurrence Statistics. Lecture Notes in Computer Science, 2010, , 239-253.	1.3	157
7	Looking Beyond the Image: Unsupervised Learning for Object Saliency and Detection. , 2013, , .		122
8	Efficient Search for Diverse Coherent Explanations. , 2019, , .		112
9	F-Formation Detection: Individuating Free-Standing Conversational Groups in Images. PLoS ONE, 2015, 10, e0123783.	2.5	104
10	Take a Look Around. ACM Transactions on Intelligent Systems and Technology, 2019, 10, 1-19.	4.5	96
11	Joint Optimization for Object Class Segmentation and Dense Stereo Reconstruction. International Journal of Computer Vision, 2012, 100, 122-133.	15.6	89
12	Why fairness cannot be automated: Bridging the gap between EU non-discrimination law and AI. Computer Law and Security Review, 2021, 41, 105567.	2.2	86
13	Seasonal Arctic sea ice forecasting with probabilistic deep learning. Nature Communications, 2021, 12, 5124.	12.8	84
14	Associative Hierarchical Random Fields. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1056-1077.	13.9	74
15	Energy based multiple model fitting for non-rigid structure from motion. , 2011, , .		67
16	Rethinking Pose in 3D: Multi-stage Refinement and Recovery for Markerless Motion Capture. , 2018, , .		59
17	Video Pop-up: Monocular 3D Reconstruction of Dynamic Scenes. Lecture Notes in Computer Science, 2014, , 583-598.	1.3	54
18	Direct, Dense, and Deformable: Template-Based Non-rigid 3D Reconstruction from RGB Video. , 2015, , .		53

#	Article	IF	Citations
19	In Defence of Negative Mining for Annotating Weakly Labelled Data. Lecture Notes in Computer Science, 2012, , 594-608.	1.3	53
20	Joint Optimisation for Object Class Segmentation and Dense Stereo Reconstruction. , 2010, , .		46
21	Inference Methods for CRFs with Co-occurrence Statistics. International Journal of Computer Vision, 2013, 103, 213-225.	15.6	42
22	Automated articulated structure and 3D shape recovery from point correspondences. , 2011, , .		38
23	Why Fairness Cannot Be Automated: Bridging the Gap Between EU Non-Discrimination Law and AI. SSRN Electronic Journal, 0, , .	0.4	31
24	Bias Preservation in Machine Learning: The Legality of Fairness Metrics Under EU Non-Discrimination Law. SSRN Electronic Journal, 0, , .	0.4	29
25	Dense multibody motion estimation and reconstruction from a handheld camera. , 2012, , .		26
26	Dense Non-rigid Structure from Motion. , 2012, , .		24
27	Efficient piecewise learning for conditional random fields. , 2010, , .		21
28	Semi-supervised Learning Using an Unsupervised Atlas. Lecture Notes in Computer Science, 2014, , 565-580.	1.3	19
29	Learning a Manifold as an Atlas. , 2013, , .		18
30	Better Together: Joint Reasoning for Non-rigid 3D Reconstruction with Specularities and Shading. , 2016, , .		15
31	Part-based modelling of compound scenes from images. , 2015, , .		10
32	Epistemic fragmentation poses a threat to the governance of online targeting. Nature Machine Intelligence, 2021, 3, 466-472.	16.0	10
33	U4D: Unsupervised 4D Dynamic Scene Understanding. , 2019, , .		8
34	Solving Jigsaw Puzzles with Linear Programming. , 2016, , .		8
35	Explaining Classifiers using Adversarial Perturbations on the Perceptual Ball. , 2021, , .		8
36	Using the P^n Potts model with learning methods to segment live cell images. , 2007, , .		6

#	Article	IF	Citations
37	Efficient minimization of higher order submodular functions using monotonic Boolean functions. Discrete Applied Mathematics, 2017, 220, 1-19.	0.9	6
38	Efficient Second Order Multi-Target Tracking with Exclusion Constraints. , 2011, , .		4
39	Counterfactual Models for Fair and Adequate Explanations. Machine Learning and Knowledge Extraction, 2022, 4, 316-349.	5.0	3
40	Linear programming-based submodular extensions for marginal estimation. Computer Vision and Image Understanding, 2019, 189, 102824.	4.7	1
41	Human Pose Manipulation and Novel View Synthesis using Differentiable Rendering. , 2021, , .		1
42	4D Temporally Coherent Multi-Person Semantic Reconstruction and Segmentation. International Journal of Computer Vision, 0, , 1.	15.6	0