Christopher Russell

List of Publications by Year
in descending order

42 papers	3,138 citations	758635 12 h-index	940134 16 g-index
44 all docs	44 docs citations	44 times ranked	2197 citing authors

#	Article	IF	Citations
1	Counterfactual Models for Fair and Adequate Explanations. Machine Learning and Knowledge Extraction, 2022, 4, 316-349.	3.2	3
2	Epistemic fragmentation poses a threat to the governance of online targeting. Nature Machine Intelligence, 2021, 3, 466-472.	8.3	10
3	Why fairness cannot be automated: Bridging the gap between EU non-discrimination law and AI. Computer Law and Security Review, 2021, 41, 105567.	1.3	86
4	Seasonal Arctic sea ice forecasting with probabilistic deep learning. Nature Communications, 2021, 12, 5124.	5.8	84
5	Explaining Classifiers using Adversarial Perturbations on the Perceptual Ball. , 2021, , .		8
6	Human Pose Manipulation and Novel View Synthesis using Differentiable Rendering. , 2021, , .		1
7	Take a Look Around. ACM Transactions on Intelligent Systems and Technology, 2019, 10, 1-19.	2.9	96
8	Explaining Explanations in AI. , 2019, , .		320
9	U4D: Unsupervised 4D Dynamic Scene Understanding. , 2019, , .		8
10	Linear programming-based submodular extensions for marginal estimation. Computer Vision and Image Understanding, 2019, 189, 102824.	3.0	1
11	Efficient Search for Diverse Coherent Explanations. , 2019, , .		112
12	Rethinking Pose in 3D: Multi-stage Refinement and Recovery for Markerless Motion Capture. , 2018, , .		59
13	Efficient minimization of higher order submodular functions using monotonic Boolean functions. Discrete Applied Mathematics, 2017, 220, 1-19.	0.5	6
14	Lifting from the Deep: Convolutional 3D Pose Estimation from a Single Image. , 2017, , .		324
15	Solving Jigsaw Puzzles with Linear Programming. , 2016, , .		8
16	Better Together: Joint Reasoning for Non-rigid 3D Reconstruction with Specularities and Shading. , 2016, , .		15
17	Direct, Dense, and Deformable: Template-Based Non-rigid 3D Reconstruction from RGB Video. , 2015, , .		53
18	Part-based modelling of compound scenes from images. , 2015, , .		10

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19	F-Formation Detection: Individuating Free-Standing Conversational Groups in Images. PLoS ONE, 2015, 10, e0123783.	1.1	104
20	Associative Hierarchical Random Fields. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1056-1077.	9.7	74
21	Video Pop-up: Monocular 3D Reconstruction of Dynamic Scenes. Lecture Notes in Computer Science, 2014, , 583-598.	1.0	54
22	Semi-supervised Learning Using an Unsupervised Atlas. Lecture Notes in Computer Science, 2014, , 565-580.	1.0	19
23	Inference Methods for CRFs with Co-occurrence Statistics. International Journal of Computer Vision, 2013, 103, 213-225.	10.9	42
24	Learning a Manifold as an Atlas. , 2013, , .		18
25	Looking Beyond the Image: Unsupervised Learning for Object Saliency and Detection. , 2013, , .		122
26	Joint Optimization for Object Class Segmentation and Dense Stereo Reconstruction. International Journal of Computer Vision, 2012, 100, 122-133.	10.9	89
27	Dense multibody motion estimation and reconstruction from a handheld camera. , 2012, , .		26
28	Dense Non-rigid Structure from Motion. , 2012, , .		24
29	In Defence of Negative Mining for Annotating Weakly Labelled Data. Lecture Notes in Computer Science, 2012, , 594-608.	1.0	53
30	Energy based multiple model fitting for non-rigid structure from motion. , 2011, , .		67
31	Automated articulated structure and 3D shape recovery from point correspondences. , 2011, , .		38
32	Efficient Second Order Multi-Target Tracking with Exclusion Constraints. , 2011, , .		4
33	Efficient piecewise learning for conditional random fields. , 2010, , .		21
34	Graph Cut Based Inference with Co-occurrence Statistics. Lecture Notes in Computer Science, 2010, , 239-253.	1.0	157
35	What, Where and How Many? Combining Object Detectors and CRFs. Lecture Notes in Computer Science, 2010, , 424-437.	1.0	158
36	Joint Optimisation for Object Class Segmentation and Dense Stereo Reconstruction. , 2010, , .		46

#	Article	IF	Citations
37	Associative hierarchical CRFs for object class image segmentation. , 2009, , .		379
38	Using the P<sup>n</sup> Potts model with learning methods to segment live cell images. , 2007, , .		6
39	Counterfactual Explanations Without Opening the Black Box: Automated Decisions and the GDPR. SSRN Electronic Journal, 0, , .	0.4	367
40	Bias Preservation in Machine Learning: The Legality of Fairness Metrics Under EU Non-Discrimination Law. SSRN Electronic Journal, 0, , .	0.4	29
41	Why Fairness Cannot Be Automated: Bridging the Gap Between EU Non-Discrimination Law and AI. SSRN Electronic Journal, 0, , .	0.4	31
42	4D Temporally Coherent Multi-Person Semantic Reconstruction and Segmentation. International Journal of Computer Vision, 0, , 1.	10.9	0