Ron Kimmel

List of Publications by Year
in descending order

54 papers	3,491 citations	361296 20 h-index	414303 32 g-index
54 all docs	54 docs citations	54 times ranked	2490 citing authors

#	Article	IF	Citations
1	A Variational Framework for Retinex. International Journal of Computer Vision, 2003, 52, 7-23.	10.9	558
2	Three-Dimensional Face Recognition. International Journal of Computer Vision, 2005, 64, 5-30.	10.9	429
3	Learning Detailed Face Reconstruction from a Single Image. , 2017, , .		221
4	3D Face Reconstruction by Learning from Synthetic Data. , 2016, , .		207
5	A Gromov-Hausdorff Framework with Diffusion Geometry forÂTopologically-Robust Non-rigid Shape Matching. International Journal of Computer Vision, 2010, 89, 266-286.	10.9	203
6	Unrestricted Facial Geometry Reconstruction Using Image-to-Image Translation. , 2017, , .		179
7	Optimal Algorithm for Shape from Shading and Path Planning. Journal of Mathematical Imaging and Vision, 2001, 14, 237-244.	0.8	167
8	Efficient Computation of Isometryâ€Invariant Distances Between Surfaces. SIAM Journal of Scientific Computing, 2006, 28, 1812-1836.	1.3	162
9	Over-Parameterized Variational Optical Flow. International Journal of Computer Vision, 2008, 76, 205-216.	10.9	95
10	Analysis of Two-Dimensional Non-Rigid Shapes. International Journal of Computer Vision, 2008, 78, 67-88.	10.9	89
11	Partial Similarity of Objects, or How to Compare a Centaur toÂaÂHorse. International Journal of Computer Vision, 2009, 84, 163-183.	10.9	83
12	Full and Partial Symmetries of Non-rigid Shapes. International Journal of Computer Vision, 2010, 89, 18-39.	10.9	83
13	Artificial Intelligence Algorithms to Assess Hormonal Status From Tissue Microarrays in Patients With Breast Cancer. JAMA Network Open, 2019, 2, e197700.	2.8	80
14	On convex relaxation of graph isomorphism. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2942-2947.	3.3	75
15	Are MSER Features Really Interesting?. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 2316-2320.	9.7	73
16	Variational Restoration and Edge Detection for Color Images. Journal of Mathematical Imaging and Vision, 2003, 18, 247-268.	0.8	68
17	Space-dependent color gamut mapping: a variational approach. IEEE Transactions on Image Processing, 2005, 14, 796-803.	6.0	58
18	IntelÂ® RealSenseâ„¢ SR300 Coded Light Depth Camera. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 2333-2345.	9.7	55

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19	Nonlinear Dimensionality Reduction by Topologically Constrained Isometric Embedding. International Journal of Computer Vision, 2010, 89, 56-68.	10.9	54
20	Data Augmentation for Leaf Segmentation and Counting Tasks in Rosette Plants. , 2019, , .		52
21	On the Optimality of Shape and Data Representation in the Spectral Domain. SIAM Journal on Imaging Sciences, 2015, 8, 1141-1160.	1.3	48
22	Topology-Invariant Similarity of Nonrigid Shapes. International Journal of Computer Vision, 2009, 81, 281-301.	10.9	47
23	Symmetries of non-rigid shapes. , 2007, , .		46
24	RGBD-fusion: Real-time high precision depth recovery. , 2015, , .		41
25	Affine Invariant Geometry for Non-rigid Shapes. International Journal of Computer Vision, 2015, 111, 1-11.	10.9	35
26	Title is missing!. Journal of Mathematical Imaging and Vision, 2003, 19, 33-48.	0.8	28
27	Rule of thumb: Deep derotation for improved fingertip detection. , 2015, , .		26
28	Affine-invariant diffusion geometry for the analysis of deformable 3D shapes. , 2011, , .		22
29	Representation Analysis and Synthesis of Lip Images Using Dimensionality Reduction. International Journal of Computer Vision, 2006, 67, 297-312.	10.9	18
30	Equi-affine Invariant Geometry for Shape Analysis. Journal of Mathematical Imaging and Vision, 2014, 50, 144-163.	0.8	14
31	Spectral gradient fields embedding for nonrigid shape matching. Computer Vision and Image Understanding, 2015, 140, 21-29.	3.0	14
32	Hamiltonian Operator for Spectral Shape Analysis. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 1320-1331.	2.9	14
33	Specular-to-Diffuse Translation for Multi-view Reconstruction. Lecture Notes in Computer Science, 2018, , 193-211.	1.0	14
34	On Semi-implicit Splitting Schemes for the Beltrami Color Image Filtering. Journal of Mathematical Imaging and Vision, 2011, 40, 199-213.	0.8	13
35	Real-Time Depth Refinement for Specular Objects. , 2016, , .		13
36	Augmented-Lagrangian regularization of matrix-valued maps. Methods and Applications of Analysis, 2014, 21, 105-122.	0.1	13

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37	Close-Range Photometric Stereo with Point Light Sources. , 2014, , .		12
38	Matching the LBO Eigenspace of Non-Rigid Shapes via High Order Statistics. Axioms, 2014, 3, 300-319.	0.9	12
39	Iterative Closest Spectral Kernel Maps. , 2014, , .		12
40	Reliability of automated topographic measurements for spine deformity. Spine Deformity, 2022, 10, 1035-1045.	0.7	10
41	Classical Scaling Revisited. , 2015, , .		8
42	Regularized principal component analysis. Chinese Annals of Mathematics Series B, 2017, 38, 1-12.	0.2	8
43	On reconstruction of non-rigid shapes with intrinsic regularization. , 2009, , .		6
44	Sparse Modeling of Shape from Structured Light. , 2012, , .		5
45	Direct Shape Recovery from Photometric Stereo with Shadows. , 2013, , .		5
46	Efficient Inter-Geodesic Distance Computation and Fast Classical Scaling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 74-85.	9.7	5
47	Consistent Discretization and Minimization of the L1 Norm on Manifolds. , 2016, , .		4
48	3D Reconstruction of Scoliotic Spines from Stereoradiography and Depth Imaging. Annals of Biomedical Engineering, 2018, 46, 1206-1215.	1.3	3
49	CoBe - Coded Beacons for Localization, Object Tracking, and SLAM Augmentation. , 2020, , .		3
50	TECHNIQUES IN AUTOMATIC CORTICAL GRAY MATTER SEGMENTATION OF THREE-DIMENSIONAL (3D) BRAIN IMAGES. , 2005, , 281-306.		1
51	Shape representation by metric interpolation. , 2012, , .		0
52	Randomized independent component analysis. , 2016, , .		0
53	From understanding of color perception to dynamical systems by manifold learning. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9998-9999.	3.3	0
54	RGBD-Fusion: Depth Refinement forÂDiffuse and Specular Objects. Advances in Computer Vision and Pattern Recognition, 2020, , 73-113.	0.9	0