Pascal V Fua

List of Publications by Year
in descending order

246 papers	29,976 citations	36203 51 h-index	9553 142 g-index
251 all docs	251 docs citations	251 times ranked	18912 citing authors

#	Article	IF	Citations
1	SLIC Superpixels Compared to State-of-the-Art Superpixel Methods. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 2274-2282.	9.7	7,142
2	EPnP: An Accurate O(n) Solution to the PnP Problem. International Journal of Computer Vision, 2009, 81, 155-166.	10.9	2,101
3	BRIEF: Binary Robust Independent Elementary Features. Lecture Notes in Computer Science, 2010, , 778-792.	1.0	1,883
4	DAISY: An Efficient Dense Descriptor Applied to Wide-Baseline Stereo. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 815-830.	9.7	1,106
5	Multiple Object Tracking Using K-Shortest Paths Optimization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 1806-1819.	9.7	849
6	BRIEF: Computing a Local Binary Descriptor Very Fast. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1281-1298.	9.7	658
7	Multicamera People Tracking with a Probabilistic Occupancy Map. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 267-282.	9.7	619
8	Keypoint recognition using randomized trees. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1465-1479.	9.7	585
9	Monocular 3D Human Pose Estimation in the Wild Using Improved CNN Supervision. , 2017, , .		543
10	LIFT: Learned Invariant Feature Transform. Lecture Notes in Computer Science, 2016, , 467-483.	1.0	536
11	Fast Keypoint Recognition Using Random Ferns. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 448-461.	9.7	489
12	Discriminative Learning of Deep Convolutional Feature Point Descriptors. , 2015, , .		486
13	LDAHash: Improved Matching with Smaller Descriptors. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 66-78.	9.7	483
14	Monocular Model-Based 3D Tracking of Rigid Objects: A Survey. Foundations and Trends in Computer Graphics and Vision, 2005, 1, 1-89.	2.8	437
15	Gradient Response Maps for Real-Time Detection of Textureless Objects. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 876-888.	9.7	431
16	A fast local descriptor for dense matching. , 2008, , .		352
17	A parallel stereo algorithm that produces dense depth maps and preserves image features. Machine Vision and Applications, 1993, 6, 35-49.	1.7	330
18	Fast Keypoint Recognition in Ten Lines of Code. , 2007, , .		295

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19	Learning to Find Good Correspondences. , 2018, , .		282
20	Beyond Sharing Weights for Deep Domain Adaptation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 801-814.	9.7	270
21	Stable real-time 3D tracking using online and offline information. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 1385-1391.	9.7	257
22	Efficient large-scale multi-view stereo for ultra high-resolution image sets. Machine Vision and Applications, 2012, 23, 903-920.	1.7	217
23	TILDE: A Temporally Invariant Learned DEtector. , 2015, , .		204
24	Computational strategies for object recognition. ACM Computing Surveys, 1992, 24, 5-62.	16.1	198
25	Supervoxel-Based Segmentation of Mitochondria in EM Image Stacks With Learned Shape Features. IEEE Transactions on Medical Imaging, 2012, 31, 474-486.	5.4	197
26	Accurate Non-Iterative O(n) Solution to the PnP Problem. , 2007, , .		191
27	XNect. ACM Transactions on Graphics, 2020, 39, .	4.9	186
28	Segmentation-Driven 6D Object Pose Estimation. , 2019, , .		183
29	Pose estimation for category specific multiview object localization. , 2009, , .		172
30	Image Matching Across Wide Baselines: From Paper to Practice. International Journal of Computer Vision, 2021, 129, 517-547.	10.9	172
31	Worldwide Pose Estimation Using 3D Point Clouds. Lecture Notes in Computer Science, 2012, , 15-29.	1.0	162
32	Estimation and Visualization of Sagittal Kinematics of Lower Limbs Orientation Using Body-Fixed Sensors. IEEE Transactions on Biomedical Engineering, 2006, 53, 1385-1393.	2.5	160
33	View-based Maps. International Journal of Robotics Research, 2010, 29, 941-957.	5.8	160
34	Dominant orientation templates for real-time detection of texture-less objects. , 2010, , .		157
35	Learning Monocular 3D Human Pose Estimation from Multi-view Images. , 2018, , .		155
36	Learning to Fuse 2D and 3D Image Cues for Monocular Body Pose Estimation. , 2017, , .		152

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37	Fast Non-Rigid Surface Detection, Registration and Realistic Augmentation. International Journal of Computer Vision, 2008, 76, 109-122.	10.9	150
38	Learning Separable Filters. , 2013, , .		145
39	Model driven edge detection. Machine Vision and Applications, 1990, 3, 45-56.	1.7	137
40	Boosting Binary Keypoint Descriptors. , 2013, , .		130
41	Tracking multiple people under global appearance constraints. , 2011, , .		128
42	Beyond the Pixel-Wise Loss for Topology-Aware Delineation. , 2018, , .		128
43	Making Action Recognition Robust to Occlusions and Viewpoint Changes. Lecture Notes in Computer Science, 2010, , 635-648.	1.0	123
44	Automated Reconstruction of Dendritic and Axonal Trees by Global Optimization with Geometric Priors. Neuroinformatics, 2011, 9, 279-302.	1.5	119
45	DeepFly3D, a deep learning-based approach for 3D limb and appendage tracking in tethered, adult Drosophila. ELife, 2019, 8, .	2.8	118
46	Multi-Commodity Network Flow for Tracking Multiple People. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1614-1627.	9.7	115
47	Tracking Interacting Objects Using Intertwined Flows. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 2312-2326.	9.7	107
48	Unsupervised Geometry-Aware Representation for 3D Human Pose Estimation. Lecture Notes in Computer Science, 2018, , 765-782.	1.0	106
49	Surface Deformation Models for Nonrigid 3D Shape Recovery. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1481-1487.	9.7	104
50	Supervised Feature Learning for Curvilinear Structure Segmentation. Lecture Notes in Computer Science, 2013, 16, 526-533.	1.0	100
51	Tracking and Modeling People in Video Sequences. Computer Vision and Image Understanding, 2001, 81, 285-302.	3.0	99
52	Linear Local Models for Monocular Reconstruction of Deformable Surfaces. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 931-944.	9.7	92
53	Multiscale Centerline Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 1327-1341.	9.7	88
54	Convex Optimization for Deformable Surface 3-D Tracking. , 2007, , .		87

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55	WILDTRACK: A Multi-camera HD Dataset for Dense Unscripted Pedestrian Detection. , 2018, , .		86
56	Multiple object tracking using flow linear programming. , 2009, , .		85
57	GarNet: A Two-Stream Network for Fast and Accurate 3D Cloth Draping. , 2019, , .		85
58	Using skeleton-based tracking to increase the reliability of optical motion capture. Human Movement Science, 2001, 20, 313-341.	0.6	84
59	Flying objects detection from a single moving camera. , 2015, , .		84
60	On rendering synthetic images for training an object detector. Computer Vision and Image Understanding, 2015, 137, 24-37.	3.0	83
61	Local and Global Skeleton Fitting Techniques for Optical Motion Capture. Lecture Notes in Computer Science, 1998, , 26-40.	1.0	82
62	Multiscale Centerline Detection by Learning a Scale-Space Distance Transform. , 2014, , .		76
63	Local deformation models for monocular 3D shape recovery. , 2008, , .		73
64	Template-free monocular reconstruction of deformable surfaces. , 2009, , .		70
65	Temporal motion models for monocular and multiview 3D human body tracking. Computer Vision and Image Understanding, 2006, 104, 157-177.	3.0	69
66	Dynamic and scalable large scale image reconstruction. , 2010, , .		69
67	Receptive Fields Selection for Binary Feature Description. IEEE Transactions on Image Processing, 2014, 23, 2583-2595.	6.0	69
68	Learning to Assign Orientations to Feature Points. , 2016, , .		66
69	NeuroMorph: A Toolset for the Morphometric Analysis and Visualization of 3D Models Derived from Electron Microscopy Image Stacks. Neuroinformatics, 2015, 13, 83-92.	1.5	64
70	Style-Based Motion Synthesis+. Computer Graphics Forum, 2004, 23, 799-812.	1.8	63
71	A Fully Automated Approach to Segmentation of Irregularly Shaped Cellular Structures in EM Images. Lecture Notes in Computer Science, 2010, 13, 463-471.	1.0	63
72	A constrained latent variable model. , 2012, , .		61

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73	Learning Separable Filters. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 94-106.	9.7	60
74	Learning to Match Aerial Images with Deep Attentive Architectures. , 2016, , .		60
75	Non-Markovian Globally Consistent Multi-object Tracking. , 2017, , .		59
76	The effects of aging on neuropil structure in mouse somatosensory cortexâ€"A 3D electron microscopy analysis of layer 1. PLoS ONE, 2018, 13, e0198131.	1.1	59
77	Learning for Structured Prediction Using Approximate Subgradient Descent with Working Sets. , 2013, , .		58
78	A Performance Evaluation of Local Features for Image-Based 3D Reconstruction. IEEE Transactions on Image Processing, 2019, 28, 4774-4789.	6.0	57
79	What Players do with the Ball: A Physically Constrained Interaction Modeling. , 2016, , .		56
80	Automated reconstruction of tree structures using path classifiers and Mixed Integer Programming. , 2012, , .		55
81	Closed-Form Solution to Non-rigid 3D Surface Registration. Lecture Notes in Computer Science, 2008, , 581-594.	1.0	54
82	Robust 3D Object Tracking from Monocular Images Using Stable Parts. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1465-1479.	9.7	54
83	Reconstructing Loopy Curvilinear Structures Using Integer Programming. , 2013, , .		53
84	Learning Latent Representations of 3D Human Pose with Deep Neural Networks. International Journal of Computer Vision, 2018, 126, 1326-1341.	10.9	53
85	Tracking Interacting Objects Optimally Using Integer Programming. Lecture Notes in Computer Science, 2014, , 17-32.	1.0	52
86	Network Flow Integer Programming to Track Elliptical Cells in Time-Lapse Sequences. IEEE Transactions on Medical Imaging, 2017, 36, 942-951.	5.4	51
87	Simultaneous Recognition and Pose Estimation of Instruments in Minimally Invasive Surgery. Lecture Notes in Computer Science, 2017, , 505-513.	1.0	49
88	Eliminating Exposure Bias and Metric Mismatch in Multiple Object Tracking. , 2019, , .		47
89	3D Human Body Tracking Using Deterministic Temporal Motion Models. Lecture Notes in Computer Science, 2004, , 92-106.	1.0	47
90	Simultaneous segmentation and anatomical labeling of the cerebral vasculature. Medical Image Analysis, 2016, 32, 201-215.	7.0	46

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91	A Novel Representation of Parts for Accurate 3D Object Detection and Tracking in Monocular Images. , 2015, , .		44
92	Beyond Cartesian Representations for Local Descriptors. , 2019, , .		44
93	Pose Priors for Simultaneously Solving Alignment and Correspondence. Lecture Notes in Computer Science, 2008, , 405-418.	1.0	44
94	Learning Context Cues for Synapse Segmentation. IEEE Transactions on Medical Imaging, 2013, 32, 1864-1877.	5.4	42
95	Live Texturing of Augmented Reality Characters from Colored Drawings. IEEE Transactions on Visualization and Computer Graphics, 2015, 21, 1201-1210.	2.9	42
96	Template-Based Monocular 3D Shape Recovery Using Laplacian Meshes. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 172-187.	9.7	42
97	LiftPose3D, a deep learning-based approach for transforming two-dimensional to three-dimensional poses in laboratory animals. Nature Methods, 2021, 18, 975-981.	9.0	42
98	Reconstructing Curvilinear Networks Using Path Classifiers and Integer Programming. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 2515-2530.	9.7	41
99	Data-Driven Visual Tracking in Retinal Microsurgery. Lecture Notes in Computer Science, 2012, 15, 568-575.	1.0	41
100	Structured Image Segmentation Using Kernelized Features. Lecture Notes in Computer Science, 2012, , 400-413.	1.0	40
101	Capturing 3D stretchable surfaces from single images in closed form. , 2009, , .		39
102	Are spatial and global constraints really necessary for segmentation?. , 2011, , .		39
103	Feature Harvesting for Tracking-by-Detection. Lecture Notes in Computer Science, 2006, , 592-605.	1.0	38
104	Compact signatures for high-speed interest point description and matching. , 2009, , .		38
105	Real-time vehicle tracking for driving assistance. Machine Vision and Applications, 2011, 22, 439-448.	1.7	38
106	Vision-based Unmanned Aerial Vehicle detection and tracking for sense and avoid systems. , 2016, , .		38
107	Voxel2Mesh: 3D Mesh Model Generation from Volumetric Data. Lecture Notes in Computer Science, 2020, , 299-308.	1.0	38
108	Keypoint Signatures for Fast Learning and Recognition. Lecture Notes in Computer Science, 2008, , 58-71.	1.0	38

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109	Automatic extraction of generic house roofs from high resolution aerial imagery. Lecture Notes in Computer Science, 1996, , 83-96.	1.0	37
110	Take your eyes off the ball: Improving ball-tracking by focusing on team play. Computer Vision and Image Understanding, 2014, 119, 102-115.	3.0	37
111	A Real-Time Deformable Detector. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 225-239.	9.7	36
112	Non-Rigid Graph Registration Using Active Testing Search. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 625-638.	9.7	36
113	Fast Part-Based Classification for Instrument Detection in Minimally Invasive Surgery. Lecture Notes in Computer Science, 2014, 17, 692-699.	1.0	36
114	Online learning of patch perspective rectification for efficient object detection. , 2008, , .		34
115	Every Smile is Unique: Landmark-Guided Diverse Smile Generation. , 2018, , .		34
116	Wide-Depth-Range 6D Object Pose Estimation in Space. , 2021, , .		34
117	Introducing Geometry in Active Learning for Image Segmentation. , 2015, , .		33
118	Deformable Surface Tracking Ambiguities. , 2007, , .		32
119	Residual Parameter Transfer for Deep Domain Adaptation. , 2018, , .		32
120	Laplacian Meshes for Monocular 3D Shape Recovery. Lecture Notes in Computer Science, 2012, , 412-425.	1.0	31
121	Conditional Random Fields for multi-camera object detection. , 2011, , .		30
122	Geometric and Physical Constraints for Drone-Based Head Plane Crowd Density Estimation. , 2019, , .		30
123	Delineating trees in noisy 2D images and 3D image-stacks. , 2010, , .		29
124	Parsing human skeletons in an operating room. Machine Vision and Applications, 2016, 27, 1035-1046.	1.7	29
125	A domain-adaptive two-stream U-Net for electron microscopy image segmentation. , 2018, , .		29
126	Neural Scene Decomposition for Multi-Person Motion Capture. , 2019, , .		29

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127	The haunted book. , 2008, , .		28
128	Probability occupancy maps for occluded depth images. , 2015, , .		28
129	Learning Structured Models for Segmentation of 2-D and 3-D Imagery. IEEE Transactions on Medical Imaging, 2015, 34, 1096-1110.	5.4	27
130	Steerable Features for Statistical 3D Dendrite Detection. Lecture Notes in Computer Science, 2009, 12, 625-632.	1.0	26
131	Deformable Surface 3D Reconstruction from Monocular Images. Synthesis Lectures on Computer Vision, 2010, 2, 1-113.	0.4	26
132	Multi-camera Tracking and Atypical Motion Detection with Behavioral Maps. Lecture Notes in Computer Science, 2008, , 112-125.	1.0	26
133	Masksembles for Uncertainty Estimation. , 2021, , .		26
134	Simultaneous pose, correspondence and non-rigid shape. , 2010, , .		25
135	Monocular 3D Reconstruction of Locally Textured Surfaces. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1118-1130.	9.7	25
136	Real-time camera pose estimation for sports fields. Machine Vision and Applications, 2020, 31, 1.	1.7	25
137	Resegmentation using generic shape: Locating general cultural objects. Pattern Recognition Letters, 1987, 5, 243-252.	2.6	24
138	Simultaneous point matching and 3D deformable surface reconstruction. , 2010, , .		24
139	Dense Image Registration and Deformable Surface Reconstruction in Presence of Occlusions and Minimal Texture. , 2015, , .		24
140	Implicit meshes for surface reconstruction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 328-333.	9.7	23
141	Combining Geometric and Appearance Priors for Robust Homography Estimation. Lecture Notes in Computer Science, 2010, , 58-72.	1.0	23
142	Detecting Irregular Curvilinear Structures in Gray Scale and Color Imagery Using Multi-directional Oriented Flux. , 2013, , .		23
143	Correlative In Vivo 2-Photon Imaging and Focused Ion Beam Scanning Electron Microscopy. Methods in Cell Biology, 2014, 124, 339-361.	0.5	23
144	Joint Segmentation and Path Classification of Curvilinear Structures. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 1515-1521.	9.7	23

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145	Learning Real-Time Perspective Patch Rectification. International Journal of Computer Vision, 2011, 91, 107-130.	10.9	22
146	Thick boundaries in binary space and their influence on nearest-neighbor search. Pattern Recognition Letters, 2012, 33, 2173-2180.	2.6	22
147	Eigendecomposition-Free Training of Deep Networks with Zero Eigenvalue-Based Losses. Lecture Notes in Computer Science, 2018, , 792-807.	1.0	22
148	Training for Task Specific Keypoint Detection. Lecture Notes in Computer Science, 2009, , 151-160.	1.0	22
149	Implicit Meshes for Effective Silhouette Handling. International Journal of Computer Vision, 2007, 72, 159-178.	10.9	21
150	Projection onto the Manifold of Elongated Structures for Accurate Extraction. , 2015, , .		21
151	Estimating People Flows to Better Count Them in Crowded Scenes. Lecture Notes in Computer Science, 2020, , 723-740.	1.0	21
152	An all-in-one solution to geometric and photometric calibration. , 2006, , .		20
153	Bridging the Gap between Detection and Tracking for 3D Monocular Video-Based Motion Capture. , 2007, , .		20
154	Real-time learning of accurate patch rectification. , 2009, , .		20
155	From Canonical Poses to 3D Motion Capture Using a Single Camera. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1165-1181.	9.7	20
156	Flight Dynamics-Based Recovery of a UAV Trajectory Using Ground Cameras. , 2017, , .		20
157	Learning Context Cues for Synapse Segmentation in EM Volumes. Lecture Notes in Computer Science, 2012, 15, 585-592.	1.0	20
158	Tilt-less 3-D electron imaging and reconstruction of complex curvilinear structures. Scientific Reports, 2017, 7, 10630.	1.6	19
159	Free-Shape Polygonal Object Localization. Lecture Notes in Computer Science, 2014, , 317-332.	1.0	19
160	GarNet++: Improving Fast and Accurate Static 3D Cloth Draping by Curvature Loss. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 181-195.	9.7	19
161	Robust non-rigid registration of 2D and 3D graphs. , 2012, , .		18
162	Multiple Human Pose Estimation with Temporally Consistent 3D Pictorial Structures. Lecture Notes in Computer Science, 2015, , 742-754.	1.0	18

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163	Fast Object Detection with Entropy-Driven Evaluation. , 2013, , .		17
164	Domain Adaptation for Microscopy Imaging. IEEE Transactions on Medical Imaging, 2015, 34, 1125-1139.	5.4	17
165	Computer vision profiling of neurite outgrowth dynamics reveals spatiotemporal modularity of Rho GTPase signaling. Journal of Cell Biology, 2016, 212, 91-111.	2.3	17
166	Geometry in active learning for binary and multi-class image segmentation. Computer Vision and Image Understanding, 2019, 182, 1-16.	3.0	17
167	Shape Reconstruction by Learning Differentiable Surface Representations. , 2020, , .		17
168	Drainage Canals in Southeast Asian Peatlands Increase Carbon Emissions. AGU Advances, 2021, 2, e2020AV000321.	2.3	17
169	Learning rotational features for filament detection. , 2009, , .		16
170	Learning to Reconstruct Texture-Less Deformable Surfaces from a Single View. , 2018, , .		16
171	Scalable Unsupervised Domain Adaptation for Electron Microscopy. Lecture Notes in Computer Science, 2016, , 326-334.	1.0	16
172	Stochastic Exploration of Ambiguities for Nonrigid Shape Recovery. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 463-475.	9.7	15
173	Stereo-vision three-dimensional reconstruction of curvilinear structures imaged with a TEM. Ultramicroscopy, 2018, 184, 116-124.	0.8	15
174	Pose estimation for category specific multiview object localization. , 2009, , .		15
175	<title>Modeling human bodies from video sequences</title>. , 1998, 3641, 36.		14
176	On the relevance of sparsity for image classification. Computer Vision and Image Understanding, 2014, 125, 115-127.	3.0	14
177	What Face and Body Shapes Can Tell Us About Height. , 2019, , .		14
178	Visual Correspondences for Unsupervised Domain Adaptation on Electron Microscopy Images. IEEE Transactions on Medical Imaging, 2020, 39, 1256-1267.	5.4	14
179	Exploring Ambiguities for Monocular Non-rigid Shape Estimation. Lecture Notes in Computer Science, 2010, , 370-383.	1.0	14
180	3D pose refinement from reflections. , 2008, , .		13

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181	Analyzing Volleyball Match Data from the 2014 World Championships Using Machine Learning Techniques. , 2016, , .		13
182	Are Existing Monocular Computer Vision-Based 3D Motion Capture Approaches Ready for Deployment? A Methodological Study on the Example of Alpine Skiing. Sensors, 2019, 19, 4323.	2.1	13
183	ActiveMoCap: Optimized Viewpoint Selection for Active Human Motion Capture. , 2020, , .		13
184	Exploiting Enclosing Membranes and Contextual Cues for Mitochondria Segmentation. Lecture Notes in Computer Science, 2014, 17, 65-72.	1.0	13
185	Real-time landing place assessment in man-made environments. Machine Vision and Applications, 2014, 25, 211-227.	1.7	12
186	Hot or Not: Exploring Correlations between Appearance and Temperature. , 2015, , .		12
187	Principled Parallel Mean-Field Inference for Discrete Random Fields. , 2016, , .		12
188	Worldwide Pose Estimation Using 3D Point Clouds. Advances in Computer Vision and Pattern Recognition, 2016, , 147-163.	0.9	12
189	Retexturing in the Presence of Complex Illumination and Occlusions. , 2007, , .		11
190	Tracing in 2D to reduce the annotation effort for 3D deep delineation of linear structures. Medical Image Analysis, 2020, 60, 101590.	7.0	11
191	Re-identification for Improved People Tracking. , 2014, , 309-330.		10
192	Using Dirichlet Free Form Deformation to Fit Deformable Models to Noisy 3-D Data. Lecture Notes in Computer Science, 2002, , 704-717.	1.0	10
193	Non-Linear Beam Model for Tracking Large Deformations. , 2007, , .		9
194	Dendritic tree extraction from noisy maximum intensity projection images in C. elegans. BioMedical Engineering OnLine, 2014, 13, 74.	1.3	9
195	Reconstructing sharply folding surfaces: A convex formulation. , 2009, , .		9
196	Vision Based 3D Tracking and Pose Estimation for Mixed Reality. , 2007, , 1-22.		9
197	Eigendecomposition-Free Training of Deep Networks for Linear Least-Square Problems. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3167-3182.	9.7	8
198	Retrieving multiple light sources in the presence of specular reflections and texture. Computer Vision and Image Understanding, 2008, 111, 207-218.	3.0	7

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199	Robust elastic 2D/3D geometric graph matching. , 2012, , .		7
200	Reconstructing Evolving Tree Structures in Time Lapse Sequences. , 2014, , .		7
201	Matching Seqlets: An Unsupervised Approach for Locality Preserving Sequence Matching. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 745-752.	9.7	7
202	Motion Prediction Using Temporal Inception Module. Lecture Notes in Computer Science, 2021, , 651-665.	1.0	7
203	Simultaneous Segmentation and Anatomical Labeling of the Cerebral Vasculature. Lecture Notes in Computer Science, 2014, 17, 307-314.	1.0	7
204	Deep Active Surface Models. , 2021, , .		7
205	An Investigation of Model Bias in 3D Face Tracking. Lecture Notes in Computer Science, 2005, , 125-139.	1.0	6
206	Image summaries using database saliency. , 2009, , .		6
207	Caenorhabditis Elegans Segmentation Using Texture-Based Models for Motility Phenotyping. IEEE Transactions on Biomedical Engineering, 2014, 61, 2278-2289.	2.5	6
208	Reconstructing Evolving Tree Structures in Time Lapse Sequences by Enforcing Time-Consistency. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 755-761.	9.7	6
209	Refining Mitochondria Segmentation in Electron Microscopy Imagery with Active Surfaces. Lecture Notes in Computer Science, 2015, , 367-379.	1.0	6
210	Automated Delineation of Dendritic Networks in Noisy Image Stacks. Lecture Notes in Computer Science, 2008, , 214-227.	1.0	6
211	TopoAL: An Adversarial Learning Approach for Topology-Aware Road Segmentation. Lecture Notes in Computer Science, 2020, , 224-240.	1.0	6
212	Classification-Based Probabilistic Modeling of Texture Transition for Fast Line Search Tracking and Delineation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 570-576.	9.7	5
213	Pareto-optimal dictionaries for signatures. , 2010, , .		5
214	Spatio-chromatic decorrelation by shift-invariant filtering. , 2011, , .		5
215	Modeling brain circuitry over a wide range of scales. Frontiers in Neuroanatomy, 2015, 9, 42.	0.9	5
216	Do We Need Binary Features for 3D Reconstruction?. , 2016, , .		5

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217	Active Learning and Proofreading for Delineation of Curvilinear Structures. Lecture Notes in Computer Science, 2017, , 165-173.	1.0	5
218	Reconstructing Geometrically Consistent Tree Structures from Noisy Images. Lecture Notes in Computer Science, 2010, 13, 291-299.	1.0	5
219	3D reconstruction of curvilinear structures with stereo matching deep convolutional neural networks. Ultramicroscopy, 2022, 234, 113460.	0.8	5
220	Learning to Segment 3D Linear Structures Using Only 2D Annotations. Lecture Notes in Computer Science, 2018, , 283-291.	1.0	4
221	Active Testing Search for Point Cloud Matching. Lecture Notes in Computer Science, 2013, 23, 572-583.	1.0	4
222	Learning rotational features for filament detection. , 2009, , .		4
223	Capturing 3D stretchable surfaces from single images in closed form. , 2009, , .		4
224	Souvenirs du monde des montagnes. , 2009, , .		3
225	Souvenirs du monde des montagnes. Leonardo, 2009, 42, 350-355.	0.2	3
226	Automated quantification of morphodynamics for high-throughput live cell time-lapse datasets. , 2013, , .		3
227	Measuring the accuracy of softball impact simulations. Sports Engineering, 2016, 19, 265-272.	0.5	3
228	Linking Pose and Motion. Lecture Notes in Computer Science, 2008, , 200-213.	1.0	3
229	Towards Reliable Evaluation of Algorithms for Road Network Reconstruction from Aerial Images. Lecture Notes in Computer Science, 2020, , 703-719.	1.0	3
230	Real-time learning of accurate patch rectification. , 2009, , .		3
231	Resolving occlusion in multiframe reconstruction of deformable surfaces. , 2011, , .		2
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