

Pascal V Fua

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Version: 2024-04-03

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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.

243 papers	20,256 citations	58 h-index	139 g-index
251 ext. papers	25,316 ext. citations	5.5 avg, IF	7.23 L-index

#	Paper	IF	Citations
243	SLIC superpixels compared to state-of-the-art superpixel methods. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 2274-82	13.3	4964
242	EPnP: An Accurate O(n) Solution to the PnP Problem. <i>International Journal of Computer Vision</i> , 2009 , 81, 155-166	10.6	1296
241	BRIEF: Binary Robust Independent Elementary Features. <i>Lecture Notes in Computer Science</i> , 2010 , 778-792	9.9	985
240	DAISY: an efficient dense descriptor applied to wide-baseline stereo. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 815-30	13.3	842
239	Multiple Object Tracking Using K-Shortest Paths Optimization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2011 , 33, 1806-19	13.3	636
238	Keypoint recognition using randomized trees. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2006 , 28, 1465-79	13.3	469
237	Multicamera people tracking with a probabilistic occupancy map. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2008 , 30, 267-82	13.3	468
236	BRIEF: Computing a Local Binary Descriptor Very Fast. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 1281-98	13.3	465
235	LDAHash: Improved Matching with Smaller Descriptors. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 66-78	13.3	407
234	Monocular Model-Based 3D Tracking of Rigid Objects: A Survey. <i>Foundations and Trends in Computer Graphics and Vision</i> , 2005 , 1, 1-89	12	369
233	Fast keypoint recognition using random ferns. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 448-61	13.3	367
232	Discriminative Learning of Deep Convolutional Feature Point Descriptors 2015 ,		341
231	Gradient response maps for real-time detection of textureless objects. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 876-88	13.3	280
230	LIFT: Learned Invariant Feature Transform. <i>Lecture Notes in Computer Science</i> , 2016 , 467-483	0.9	271
229	A fast local descriptor for dense matching 2008 ,		264
228	Monocular 3D Human Pose Estimation in the Wild Using Improved CNN Supervision 2017 ,		240
227	A parallel stereo algorithm that produces dense depth maps and preserves image features. <i>Machine Vision and Applications</i> , 1993 , 6, 35-49	2.8	227

226	Fast Keypoint Recognition in Ten Lines of Code 2007 ,		211
225	Stable real-time 3D tracking using online and offline information. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2004 , 26, 1385-91	13.3	200
224	Computational strategies for object recognition. <i>ACM Computing Surveys</i> , 1992 , 24, 5-62	13.4	159
223	Supervoxel-based segmentation of mitochondria in em image stacks with learned shape features. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 474-86	11.7	149
222	Beyond Sharing Weights for Deep Domain Adaptation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019 , 41, 801-814	13.3	147
221	Learning to Find Good Correspondences 2018 ,		137
220	Pose estimation for category specific multiview object localization 2009 ,		135
219	Accurate Non-Iterative (?) Solution to the P?P Problem 2007 ,		133
218	Estimation and visualization of sagittal kinematics of lower limbs orientation using body-fixed sensors. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 1385-93	5	131
217	Efficient large-scale multi-view stereo for ultra high-resolution image sets. <i>Machine Vision and Applications</i> , 2012 , 23, 903-920	2.8	130
216	View-based Maps. <i>International Journal of Robotics Research</i> , 2010 , 29, 941-957	5.7	122
215	Fast Non-Rigid Surface Detection, Registration and Realistic Augmentation. <i>International Journal of Computer Vision</i> , 2008 , 76, 109-122	10.6	119
214	Dominant orientation templates for real-time detection of texture-less objects 2010 ,		118
213	TILDE: A Temporally Invariant Learned DETector 2015 ,		115
212	Boosting Binary Keypoint Descriptors 2013 ,		105
211	Worldwide Pose Estimation Using 3D Point Clouds. <i>Lecture Notes in Computer Science</i> , 2012 , 15-29	0.9	103
210	Learning to Fuse 2D and 3D Image Cues for Monocular Body Pose Estimation 2017 ,		96
209	Automated reconstruction of dendritic and axonal trees by global optimization with geometric priors. <i>Neuroinformatics</i> , 2011 , 9, 279-302	3.2	95

208	Multi-Commodity Network Flow for Tracking Multiple People. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2014 , 36, 1614-27	13.3	93
207	Model driven edge detection. <i>Machine Vision and Applications</i> , 1990 , 3, 45-56	2.8	91
206	Tracking multiple people under global appearance constraints 2011 ,		90
205	Learning Monocular 3D Human Pose Estimation from Multi-view Images 2018 ,		90
204	Learning Separable Filters 2013 ,		89
203	Surface deformation models for nonrigid 3D shape recovery. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2007 , 29, 1481-7	13.3	89
202	Making Action Recognition Robust to Occlusions and Viewpoint Changes. <i>Lecture Notes in Computer Science</i> , 2010 , 635-648	0.9	85
201	Tracking Interacting Objects Using Intertwined Flows. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2016 , 38, 2312-2326	13.3	79
200	Linear local models for monocular reconstruction of deformable surfaces. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2011 , 33, 931-44	13.3	77
199	2019 ,		76
198	Supervised feature learning for curvilinear structure segmentation. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 526-33	0.9	74
197	Tracking and Modeling People in Video Sequences. <i>Computer Vision and Image Understanding</i> , 2001 , 81, 285-302	4.3	73
196	XNect. <i>ACM Transactions on Graphics</i> , 2020 , 39,	7.6	73
195	Multiple object tracking using flow linear programming 2009 ,		71
194	Beyond the Pixel-Wise Loss for Topology-Aware Delineation 2018 ,		69
193	Convex Optimization for Deformable Surface 3-D Tracking 2007 ,		67
192	Using skeleton-based tracking to increase the reliability of optical motion capture. <i>Human Movement Science</i> , 2001 , 20, 313-41	2.4	66
191	Multiscale Centerline Detection. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2016 , 38, 1327-41	13.3	64

190	DeepFly3D, a deep learning-based approach for 3D limb and appendage tracking in tethered, adult. <i>ELife</i> , 2019 , 8,	8.9	62
189	Receptive fields selection for binary feature description. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 2583-95	8.7	60
188	Local deformation models for monocular 3D shape recovery 2008 ,		60
187	Multiscale Centerline Detection by Learning a Scale-Space Distance Transform 2014 ,		59
186	Image Matching Across Wide Baselines: From Paper to Practice. <i>International Journal of Computer Vision</i> , 2021 , 129, 517-547	10.6	59
185	Template-free monocular reconstruction of deformable surfaces 2009 ,		58
184	Flying objects detection from a single moving camera 2015 ,		55
183	Dynamic and scalable large scale image reconstruction 2010 ,		55
182	Unsupervised Geometry-Aware Representation for 3D Human Pose Estimation. <i>Lecture Notes in Computer Science</i> , 2018 , 765-782	0.9	54
181	Style-Based Motion Synthesis <i>Computer Graphics Forum</i> , 2004 , 23, 799-812	2.4	52
180	A constrained latent variable model 2012 ,		50
179	Automated reconstruction of tree structures using path classifiers and Mixed Integer Programming 2012 ,		49
178	Temporal motion models for monocular and multiview 3D human body tracking. <i>Computer Vision and Image Understanding</i> , 2006 , 104, 157-177	4.3	49
177	GarNet: A Two-Stream Network for Fast and Accurate 3D Cloth Draping 2019 ,		49
176	Learning Separable Filters. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015 , 37, 94-106,	9.3	48
175	Local and Global Skeleton Fitting Techniques for Optical Motion Capture. <i>Lecture Notes in Computer Science</i> , 1998 , 26-40	0.9	47
174	Non-Markovian Globally Consistent Multi-object Tracking 2017 ,		45
173	Reconstructing Loopy Curvilinear Structures Using Integer Programming 2013 ,		45

172	A fully automated approach to segmentation of irregularly shaped cellular structures in EM images. <i>Lecture Notes in Computer Science</i> , 2010 , 13, 463-71	0.9	44
171	Learning to Assign Orientations to Feature Points 2016 ,		43
170	On rendering synthetic images for training an object detector. <i>Computer Vision and Image Understanding</i> , 2015 , 137, 24-37	4.3	42
169	What Players do with the Ball: A Physically Constrained Interaction Modeling 2016 ,		41
168	Network Flow Integer Programming to Track Elliptical Cells in Time-Lapse Sequences. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 942-951	11.7	39
167	NeuroMorph: a toolset for the morphometric analysis and visualization of 3D models derived from electron microscopy image stacks. <i>Neuroinformatics</i> , 2015 , 13, 83-92	3.2	39
166	Learning for Structured Prediction Using Approximate Subgradient Descent with Working Sets 2013 ,		37
165	Learning to Match Aerial Images with Deep Attentive Architectures 2016 ,		37
164	Learning Latent Representations of 3D Human Pose with Deep Neural Networks. <i>International Journal of Computer Vision</i> , 2018 , 126, 1326-1341	10.6	36
163	Learning context cues for synapse segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 1864-77	11.7	36
162	Capturing 3D stretchable surfaces from single images in closed form 2009 ,		35
161	Closed-Form Solution to Non-rigid 3D Surface Registration. <i>Lecture Notes in Computer Science</i> , 2008 , 581-594	0.9	35
160	Tracking Interacting Objects Optimally Using Integer Programming. <i>Lecture Notes in Computer Science</i> , 2014 , 17-32	0.9	35
159	Robust 3D Object Tracking from Monocular Images Using Stable Parts. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 1465-1479	13.3	34
158	A Novel Representation of Parts for Accurate 3D Object Detection and Tracking in Monocular Images 2015 ,		34
157	Are spatial and global constraints really necessary for segmentation? 2011 ,		33
156	Reconstructing Curvilinear Networks Using Path Classifiers and Integer Programming. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2016 , 38, 2515-2530	13.3	32
155	A Performance Evaluation of Local Features for Image-Based 3D Reconstruction. <i>IEEE Transactions on Image Processing</i> , 2019 , 28, 4774-4789	8.7	32

154	Take your eyes off the ball: Improving ball-tracking by focusing on team play. <i>Computer Vision and Image Understanding</i> , 2014 , 119, 102-115	4.3	32
153	Fast part-based classification for instrument detection in minimally invasive surgery. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 692-9	0.9	32
152	Simultaneous Recognition and Pose Estimation of Instruments in Minimally Invasive Surgery. <i>Lecture Notes in Computer Science</i> , 2017 , 505-513	0.9	32
151	Data-driven visual tracking in retinal microsurgery. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 568-75	0.9	32
150	Template-Based Monocular 3D Shape Recovery Using Laplacian Meshes. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2016 , 38, 172-87	13.3	31
149	A real-time deformable detector. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 225-39	13.3	31
148	Eliminating Exposure Bias and Metric Mismatch in Multiple Object Tracking 2019 ,		31
147	WILDTRACK: A Multi-camera HD Dataset for Dense Unscripted Pedestrian Detection 2018 ,		31
146	Non-Rigid Graph Registration Using Active Testing Search. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015 , 37, 625-38	13.3	29
145	Structured Image Segmentation Using Kernelized Features. <i>Lecture Notes in Computer Science</i> , 2012 , 400-413	0.9	29
144	Deformable Surface Tracking Ambiguities 2007 ,		29
143	Live texturing of augmented reality characters from colored drawings. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2015 , 21, 1201-10	4	28
142	Real-time vehicle tracking for driving assistance. <i>Machine Vision and Applications</i> , 2011 , 22, 439-448	2.8	27
141	Compact signatures for high-speed interest point description and matching 2009 ,		27
140	3D Human Body Tracking Using Deterministic Temporal Motion Models. <i>Lecture Notes in Computer Science</i> , 2004 , 92-106	0.9	27
139	Vision-based Unmanned Aerial Vehicle detection and tracking for sense and avoid systems 2016 ,		27
138	The effects of aging on neuropil structure in mouse somatosensory cortex-A 3D electron microscopy analysis of layer 1. <i>PLoS ONE</i> , 2018 , 13, e0198131	3.7	26
137	Pose Priors for Simultaneously Solving Alignment and Correspondence. <i>Lecture Notes in Computer Science</i> , 2008 , 405-418	0.9	26

136	Laplacian Meshes for Monocular 3D Shape Recovery. <i>Lecture Notes in Computer Science</i> , 2012 , 412-425	0.9	26
135	The haunted book 2008 ,		25
134	Delineating trees in noisy 2D images and 3D image-stacks 2010 ,		24
133	Online learning of patch perspective rectification for efficient object detection 2008 ,		24
132	Residual Parameter Transfer for Deep Domain Adaptation 2018 ,		24
131	Learning structured models for segmentation of 2-D and 3-D imagery. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 1096-110	11.7	23
130	Keypoint Signatures for Fast Learning and Recognition. <i>Lecture Notes in Computer Science</i> , 2008 , 58-71	0.9	23
129	Steerable features for statistical 3D dendrite detection. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 625-32	0.9	22
128	Every Smile is Unique: Landmark-Guided Diverse Smile Generation 2018 ,		22
127	Parsing human skeletons in an operating room. <i>Machine Vision and Applications</i> , 2016 , 27, 1035-1046	2.8	21
126	Simultaneous segmentation and anatomical labeling of the cerebral vasculature. <i>Medical Image Analysis</i> , 2016 , 32, 201-15	15.4	21
125	Beyond Cartesian Representations for Local Descriptors 2019 ,		21
124	Introducing Geometry in Active Learning for Image Segmentation 2015 ,		20
123	Probability occupancy maps for occluded depth images 2015 ,		20
122	Thick boundaries in binary space and their influence on nearest-neighbor search. <i>Pattern Recognition Letters</i> , 2012 , 33, 2173-2180	4.7	20
121	Deformable Surface 3D Reconstruction from Monocular Images. <i>Synthesis Lectures on Computer Vision</i> , 2010 , 2, 1-113	1	20
120	Implicit meshes for surface reconstruction. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2006 , 28, 328-33	13.3	20
119	A domain-adaptive two-stream U-Net for electron microscopy image segmentation 2018 ,		19

118	Monocular 3D reconstruction of locally textured surfaces. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 1118-30	13.3	19
117	Learning Real-Time Perspective Patch Rectification. <i>International Journal of Computer Vision</i> , 2011 , 91, 107-130	10.6	19
116	Simultaneous point matching and 3D deformable surface reconstruction 2010 ,		19
115	Feature Harvesting for Tracking-by-Detection. <i>Lecture Notes in Computer Science</i> , 2006 , 592-605	0.9	19
114	Multi-camera Tracking and Atypical Motion Detection with Behavioral Maps. <i>Lecture Notes in Computer Science</i> , 2008 , 112-125	0.9	19
113	Learning context cues for synapse segmentation in EM volumes. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 585-92	0.9	19
112	Geometric and Physical Constraints for Drone-Based Head Plane Crowd Density Estimation 2019 ,		19
111	Correlative in vivo 2-photon imaging and focused ion beam scanning electron microscopy: 3D analysis of neuronal ultrastructure. <i>Methods in Cell Biology</i> , 2014 , 124, 339-61	1.8	18
110	Detecting Irregular Curvilinear Structures in Gray Scale and Color Imagery Using Multi-directional Oriented Flux 2013 ,		18
109	Dense Image Registration and Deformable Surface Reconstruction in Presence of Occlusions and Minimal Texture 2015 ,		17
108	Simultaneous pose, correspondence and non-rigid shape 2010 ,		17
107	From canonical poses to 3D motion capture using a single camera. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 1165-81	13.3	17
106	An all-in-one solution to geometric and photometric calibration 2006 ,		17
105	Resegmentation using generic shape: Locating general cultural objects. <i>Pattern Recognition Letters</i> , 1987 , 5, 243-252	4.7	17
104	Implicit Meshes for Effective Silhouette Handling. <i>International Journal of Computer Vision</i> , 2007 , 72, 159-178	10.6	16
103	2019 ,		16
102	Combining Geometric and Appearance Priors for Robust Homography Estimation. <i>Lecture Notes in Computer Science</i> , 2010 , 58-72	0.9	15
101	Conditional Random Fields for multi-camera object detection 2011 ,		15

100	Robust non-rigid registration of 2D and 3D graphs 2012 ,		15
99	Real-time learning of accurate patch rectification 2009 ,		15
98	Pose estimation for category specific multiview object localization		15
97	Domain adaptation for microscopy imaging. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 1125-39	11.7	14
96	Flight Dynamics-Based Recovery of a UAV Trajectory Using Ground Cameras 2017 ,		14
95	Projection onto the Manifold of Elongated Structures for Accurate Extraction 2015 ,		14
94	Fast Object Detection with Entropy-Driven Evaluation 2013 ,		14
93	Learning rotational features for filament detection 2009 ,		14
92	Automatic extraction of generic house roofs from high resolution aerial imagery. <i>Lecture Notes in Computer Science</i> , 1996 , 83-96	0.9	14
91	Scalable Unsupervised Domain Adaptation for Electron Microscopy. <i>Lecture Notes in Computer Science</i> , 2016 , 326-334	0.9	14
90	Training for Task Specific Keypoint Detection. <i>Lecture Notes in Computer Science</i> , 2009 , 151-160	0.9	14
89	Computer vision profiling of neurite outgrowth dynamics reveals spatiotemporal modularity of Rho GTPase signaling. <i>Journal of Cell Biology</i> , 2016 , 212, 91-111	7.3	13
88	Stochastic exploration of ambiguities for nonrigid shape recovery. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 463-75	13.3	13
87	Tilt-less 3-D electron imaging and reconstruction of complex curvilinear structures. <i>Scientific Reports</i> , 2017 , 7, 10630	4.9	13
86	On the relevance of sparsity for image classification. <i>Computer Vision and Image Understanding</i> , 2014 , 125, 115-127	4.3	13
85	Bridging the Gap between Detection and Tracking for 3D Monocular Video-Based Motion Capture 2007 ,		13
84	Voxel2Mesh: 3D Mesh Model Generation from Volumetric Data. <i>Lecture Notes in Computer Science</i> , 2020 , 299-308	0.9	13
83	Geometry in active learning for binary and multi-class image segmentation. <i>Computer Vision and Image Understanding</i> , 2019 , 182, 1-16	4.3	12

82	3D pose refinement from reflections 2008 ,		12
81	Free-Shape Polygonal Object Localization. <i>Lecture Notes in Computer Science</i> , 2014 , 317-332	0.9	12
80	Joint Segmentation and Path Classification of Curvilinear Structures. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , 42, 1515-1521	13.3	12
79	Eigendecomposition-Free Training of Deep Networks with Zero Eigenvalue-Based Losses. <i>Lecture Notes in Computer Science</i> , 2018 , 792-807	0.9	12
78	LiftPose3D, a deep learning-based approach for transforming two-dimensional to three-dimensional poses in laboratory animals. <i>Nature Methods</i> , 2021 , 18, 975-981	21.6	12
77	Stereo-vision three-dimensional reconstruction of curvilinear structures imaged with a TEM. <i>Ultramicroscopy</i> , 2018 , 184, 116-124	3.1	11
76	Exploiting enclosing membranes and contextual cues for mitochondria segmentation. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 65-72	0.9	11
75	Multiple Human Pose Estimation with Temporally Consistent 3D Pictorial Structures. <i>Lecture Notes in Computer Science</i> , 2015 , 742-754	0.9	11
74	What Face and Body Shapes Can Tell Us About Height 2019 ,		11
73	Principled Parallel Mean-Field Inference for Discrete Random Fields 2016 ,		10
72	Hot or Not: Exploring Correlations between Appearance and Temperature 2015 ,		10
71	Retexturing in the Presence of Complex Illumination and Occlusions 2007 ,		10
70	Exploring Ambiguities for Monocular Non-rigid Shape Estimation. <i>Lecture Notes in Computer Science</i> , 2010 , 370-383	0.9	10
69	Real-time landing place assessment in man-made environments. <i>Machine Vision and Applications</i> , 2014 , 25, 211-227	2.8	9
68	Modeling human bodies from video sequences 1998 , 3641, 36		9
67	Learning to Reconstruct Texture-Less Deformable Surfaces from a Single View 2018 ,		9
66	Non-Linear Beam Model for Tracking Large Deformations 2007 ,		8
65	Reconstructing sharply folding surfaces: A convex formulation		8

64	Estimating People Flows to Better Count Them in Crowded Scenes. <i>Lecture Notes in Computer Science</i> , 2020 , 723-740	0.9	8
63	Shape Reconstruction by Learning Differentiable Surface Representations 2020 ,		8
62	Retrieving multiple light sources in the presence of specular reflections and texture. <i>Computer Vision and Image Understanding</i> , 2008 , 111, 207-218	4.3	7
61	GarNet++: Improving Fast and Accurate Static 3D Cloth Draping by Curvature Loss. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022 , 44, 181-195	13.3	7
60	Wide-Depth-Range 6D Object Pose Estimation in Space 2021 ,		7
59	Worldwide Pose Estimation Using 3D Point Clouds. <i>Advances in Computer Vision and Pattern Recognition</i> , 2016 , 147-163	1.1	7
58	Tracing in 2D to reduce the annotation effort for 3D deep delineation of linear structures. <i>Medical Image Analysis</i> , 2020 , 60, 101590	15.4	7
57	Visual Correspondences for Unsupervised Domain Adaptation on Electron Microscopy Images. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 1256-1267	11.7	7
56	Drainage Canals in Southeast Asian Peatlands Increase Carbon Emissions. <i>AGU Advances</i> , 2021 , 2, e2020AV000321	3.4	7
55	Using Dirichlet Free Form Deformation to Fit Deformable Models to Noisy 3-D Data. <i>Lecture Notes in Computer Science</i> , 2002 , 704-717	0.9	7
54	Real-time camera pose estimation for sports fields. <i>Machine Vision and Applications</i> , 2020 , 31, 1	2.8	6
53	Caenorhabditis elegans segmentation using texture-based models for motility phenotyping. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 2278-89	5	6
52	Re-identification for Improved People Tracking 2014 , 309-330		6
51	An Investigation of Model Bias in 3D Face Tracking. <i>Lecture Notes in Computer Science</i> , 2005 , 125-139	0.9	6
50	Refining Mitochondria Segmentation in Electron Microscopy Imagery with Active Surfaces. <i>Lecture Notes in Computer Science</i> , 2015 , 367-379	0.9	6
49	Dendritic tree extraction from noisy maximum intensity projection images in C. elegans. <i>BioMedical Engineering OnLine</i> , 2014 , 13, 74	4.1	5
48	Modeling brain circuitry over a wide range of scales. <i>Frontiers in Neuroanatomy</i> , 2015 , 9, 42	3.6	5
47	Robust elastic 2D/3D geometric graph matching 2012 ,		5

46	Simultaneous segmentation and anatomical labeling of the cerebral vasculature. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 307-14	0.9	5
45	Automated Delineation of Dendritic Networks in Noisy Image Stacks. <i>Lecture Notes in Computer Science</i> , 2008 , 214-227	0.9	5
44	LiftPose3D, a deep learning-based approach for transforming 2D to 3D pose in laboratory animals		5
43	Analyzing Volleyball Match Data from the 2014 World Championships Using Machine Learning Techniques 2016 ,		5
42	Do We Need Binary Features for 3D Reconstruction? 2016 ,		5
41	Eigendecomposition-Free Training of Deep Networks for Linear Least-Square Problems. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 3167-3182	13.3	4
40	Reconstructing Evolving Tree Structures in Time Lapse Sequences by Enforcing Time-Consistency. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 755-761	13.3	4
39	Are Existing Monocular Computer Vision-Based 3D Motion Capture Approaches Ready for Deployment? A Methodological Study on the Example of Alpine Skiing. <i>Sensors</i> , 2019 , 19,	3.8	4
38	Reconstructing Evolving Tree Structures in Time Lapse Sequences 2014 ,		4
37	Pareto-optimal dictionaries for signatures 2010 ,		4
36	Classification-based probabilistic modeling of texture transition for fast line search tracking and delineation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2009 , 31, 570-6	13.3	4
35	Learning rotational features for filament detection		4
34	Capturing 3D stretchable surfaces from single images in closed form 2009 ,		4
33	Active Learning and Proofreading for Delineation of Curvilinear Structures. <i>Lecture Notes in Computer Science</i> , 2017 , 165-173	0.9	4
32	Reconstructing geometrically consistent tree structures from noisy images. <i>Lecture Notes in Computer Science</i> , 2010 , 13, 291-9	0.9	4
31	Long Term Real Trajectory Reuse through Region Goal Satisfaction. <i>Lecture Notes in Computer Science</i> , 2011 , 412-423	0.9	4
30	ActiveMoCap: Optimized Viewpoint Selection for Active Human Motion Capture 2020 ,		4
29	Automated quantification of morphodynamics for high-throughput live cell time-lapse datasets 2013 ,		3

28	Spatio-chromatic decorrelation by shift-invariant filtering 2011 ,		3
27	Souvenirs du monde des montagnes 2009 ,		3
26	Souvenirs du monde des montagnes. <i>Leonardo</i> , 2009 , 42, 350-355	0.1	3
25	Masksembles for Uncertainty Estimation 2021 ,		3
24	Real-time learning of accurate patch rectification 2009 ,		3
23	Vision Based 3D Tracking and Pose Estimation for Mixed Reality 2007 , 1-22		3
22	Linking Pose and Motion. <i>Lecture Notes in Computer Science</i> , 2008 , 200-213	0.9	3
21	Active testing search for point cloud matching. <i>Lecture Notes in Computer Science</i> , 2013 , 23, 572-83	0.9	3
20	Matching Seqlets: An Unsupervised Approach for Locality Preserving Sequence Matching. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 745-752	13.3	3
19	Learning to Segment 3D Linear Structures Using Only 2D Annotations. <i>Lecture Notes in Computer Science</i> , 2018 , 283-291	0.9	3
18	Multi-modal Mean-Fields via Cardinality-Based Clamping 2017 ,		2
17	2011 ,		2
16	Image summaries using database saliency 2009 ,		2
15	Deep Active Surface Models 2021 ,		2
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