

Pingkun Yan

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

139
papers

4,209
citations

33
h-index

61
g-index

159
ext. papers

5,285
ext. citations

4.9
avg, IF

6.01
L-index

#	Paper	IF	Citations
139	Deep learning for biomechanical modeling of facial tissue deformation in orthognathic surgical planning.. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2022 , 1	3.9	2
138	Polar transform network for prostate ultrasound segmentation with uncertainty estimation.. <i>Medical Image Analysis</i> , 2022 , 78, 102418	15.4	1
137	Deep learning-based motion artifact removal in functional near-infrared spectroscopy.. <i>Neurophotonics</i> , 2022 , 9, 041406	3.9	1
136	Transformed Grid Distance Loss for Supervised Image Registration. <i>Lecture Notes in Computer Science</i> , 2022 , 177-181	0.9	
135	OASIS: One-pass aligned Atlas Set for Medical Image Segmentation. <i>Neurocomputing</i> , 2021 , 470, 130-130	5.4	4
134	On a Sparse Shortcut Topology of Artificial Neural Networks. <i>IEEE Transactions on Artificial Intelligence</i> , 2021 , 1-1	4.7	0
133	Functional Brain Imaging Reliably Predicts Bimanual Motor Skill Performance in a Standardized Surgical Task. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 2058-2066	5	3
132	Decreasing the Surgical Errors by Neurostimulation of Primary Motor Cortex and the Associated Brain Activation via Neuroimaging. <i>Frontiers in Neuroscience</i> , 2021 , 15, 651192	5.1	2
131	Data Augmentation for Training Deep Neural Networks 2021 , 151-164		0
130	Deep learning predicts cardiovascular disease risks from lung cancer screening low dose computed tomography. <i>Nature Communications</i> , 2021 , 12, 2963	17.4	11
129	Multi-Task Learning for Registering Images With Large Deformation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 1624-1633	7.2	2
128	Integrative analysis for COVID-19 patient outcome prediction. <i>Medical Image Analysis</i> , 2021 , 67, 101844	15.4	35
127	Prediction of Coronary Calcification and Stenosis: Role of Radiomics From Low-Dose CT. <i>Academic Radiology</i> , 2021 , 28, 972-979	4.3	1
126	Biomedical imaging and analysis through deep learning 2021 , 49-74		
125	Cross-Modal Attention for MRI and Ultrasound Volume Registration. <i>Lecture Notes in Computer Science</i> , 2021 , 66-75	0.9	11
124	Task-Oriented Low-Dose CT Image Denoising. <i>Lecture Notes in Computer Science</i> , 2021 , 441-450	0.9	3
123	Cardiovascular Disease Risk Improves COVID-19 Patient Outcome Prediction. <i>Lecture Notes in Computer Science</i> , 2021 , 467-476	0.9	

122	Association of AI quantified COVID-19 chest CT and patient outcome. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021 , 16, 435-445	3.9	10
121	End-to-end Ultrasound Frame to Volume Registration. <i>Lecture Notes in Computer Science</i> , 2021 , 56-65	0.9	3
120	T Mapping Refined Finite Element Modeling to Predict Knee Osteoarthritis Progression. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 4592-4595	0.9	0
119	A method of rapid quantification of patient-specific organ doses for CT using deep-learning-based multi-organ segmentation and GPU-accelerated Monte Carlo dose computing. <i>Medical Physics</i> , 2020 , 47, 2526-2536	4.4	25
118	Multi-Organ Segmentation Over Partially Labeled Datasets With Multi-Scale Feature Abstraction. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 3619-3629	11.7	30
117	Deep learning in medical image registration: a survey. <i>Machine Vision and Applications</i> , 2020 , 31, 1	2.8	162
116	Synergizing medical imaging and radiotherapy with deep learning. <i>Machine Learning: Science and Technology</i> , 2020 , 1, 021001	5.1	9
115	High compression deep learning based single-pixel hyperspectral macroscopic fluorescence lifetime imaging. <i>Biomedical Optics Express</i> , 2020 , 11, 5401-5424	3.5	13
114	Unsupervised Domain Adaptation with Dual-Scheme Fusion Network for Medical Image Segmentation 2020 ,		5
113	Division and Fusion: Rethink Convolutional Kernels for 3D Medical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 160-169	0.9	
112	Sensorless Freehand 3D Ultrasound Reconstruction via Deep Contextual Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 463-472	0.9	9
111	Deep adaptive registration of multi-modal prostate images. <i>Computerized Medical Imaging and Graphics</i> , 2020 , 84, 101769	7.6	11
110	Knowledge-Based Analysis for Mortality Prediction From CT Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 457-464	7.2	11
109	Boundary-Weighted Domain Adaptive Neural Network for Prostate MR Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 753-763	11.7	71
108	Deep learning-based liver segmentation for fusion-guided intervention. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 963-972	3.9	8
107	PASiam: Predicting Attention Inspired Siamese Network, for Space-Borne Satellite Video Tracking 2019 ,		5
106	Net-FLICS: fast quantitative wide-field fluorescence lifetime imaging with compressed sensing - a deep learning approach. <i>Light: Science and Applications</i> , 2019 , 8, 26	16.7	34
105	Deep neural maps for unsupervised visualization of high-grade cancer in prostate biopsies. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019 , 14, 1009-1016	3.9	13

104	MR Image Super-Resolution via Wide Residual Networks With Fixed Skip Connection. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 1129-1140	7.2	48
103	Feature Fusion Encoder Decoder Network for Automatic Liver Lesion Segmentation 2019 ,		18
102	Fast fit-free analysis of fluorescence lifetime imaging via deep learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 24019-24030	11.5	48
101	fNIRS as a Quantitative tool to Asses and Predict Surgical Skills 2019 ,		1
100	Learning deep similarity metric for 3D MR-TRUS image registration. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019 , 14, 417-425	3.9	49
99	Investigation of Physical Phenomena Underlying Temporal-Enhanced Ultrasound as a New Diagnostic Imaging Technique: Theory and Simulations. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 400-410	3.2	12
98	Low-Dose CT Image Denoising Using a Generative Adversarial Network With Wasserstein Distance and Perceptual Loss. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 1348-1357	11.7	546
97	Toward a real-time system for temporal enhanced ultrasound-guided prostate biopsy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018 , 13, 1201-1209	3.9	6
96	Correlation-Based Tracking of Multiple Targets With Hierarchical Layered Structure. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 90-102	10.2	18
95	Shape prior constrained PSO model for bladder wall MRI segmentation. <i>Neurocomputing</i> , 2018 , 294, 19-28	5.4	17
94	Learning from Noisy Label Statistics: Detecting High Grade Prostate Cancer in Ultrasound Guided Biopsy. <i>Lecture Notes in Computer Science</i> , 2018 , 21-29	0.9	6
93	A Deep Learning Health Data Analysis Approach: Automatic 3D Prostate MR Segmentation with Densely-Connected Volumetric ConvNets 2018 ,		11
92	Adversarial Image Registration with Application for MR and TRUS Image Fusion. <i>Lecture Notes in Computer Science</i> , 2018 , 197-204	0.9	33
91	Deep compressive macroscopic fluorescence lifetime imaging 2018 ,		4
90	Exploiting Interslice Correlation for MRI Prostate Image Segmentation, from Recursive Neural Networks Aspect. <i>Complexity</i> , 2018 , 2018, 1-10	1.6	32
89	Deep Recurrent Neural Networks for Prostate Cancer Detection: Analysis of Temporal Enhanced Ultrasound. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 2695-2703	11.7	35
88	Transfer learning from RF to B-mode temporal enhanced ultrasound features for prostate cancer detection. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017 , 12, 1111-1121	3.9	21
87	Detection and grading of prostate cancer using temporal enhanced ultrasound: combining deep neural networks and tissue mimicking simulations. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017 , 12, 1293-1305	3.9	29

86	Tissue mimicking simulations for temporal enhanced ultrasound-based tissue typing 2017 ,		2
85	Changes in prostate cancer detection rate of MRI-TRUS fusion vs systematic biopsy over time: evidence of a learning curve. <i>Prostate Cancer and Prostatic Diseases</i> , 2017 , 20, 436-441	6.2	42
84	Deeply-supervised CNN for prostate segmentation 2017 ,		71
83	MP20-16 TRAINING AND SKILLS ASSESSMENT FOR FUSION-GUIDED PROSTATE BIOPSY: DEFINING THE LEARNING CURVE. <i>Journal of Urology</i> , 2016 , 195,	2.5	2
82	Classifying Cancer Grades Using Temporal Ultrasound for Transrectal Prostate Biopsy. <i>Lecture Notes in Computer Science</i> , 2016 , 653-661	0.9	7
81	Partial sparse shape constrained sector-driven bladder wall segmentation. <i>Machine Vision and Applications</i> , 2015 , 26, 593-606	2.8	9
80	Multiparametric magnetic resonance imaging-transrectal ultrasound fusion-assisted biopsy for the diagnosis of local recurrence after radical prostatectomy. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2015 , 33, 425.e1-425.e6	2.8	29
79	Feature competition and partial sparse shape modeling for cardiac image sequences segmentation. <i>Neurocomputing</i> , 2015 , 149, 904-913	5.4	15
78	Monitoring of radiofrequency ablation with shear wave delay mapping 2015 ,		2
77	Is visual registration equivalent to semiautomated registration in prostate biopsy?. <i>BioMed Research International</i> , 2015 , 2015, 394742	3	18
76	Label image constrained multiatlas selection. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 1158-68	10.2	17
75	The role of image guided biopsy targeting in patients with atypical small acinar proliferation. <i>Journal of Urology</i> , 2015 , 193, 473-478	2.5	28
74	Ego motion guided particle filter for vehicle tracking in airborne videos. <i>Neurocomputing</i> , 2014 , 124, 168-177	5.4	20
73	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2014 , 50, 1374-1389	3.7	16
72	Hierarchical incorporation of shape and shape dynamics for flying bird detection. <i>Neurocomputing</i> , 2014 , 131, 179-190	5.4	11
71	Prostate biopsy for the interventional radiologist. <i>Journal of Vascular and Interventional Radiology</i> , 2014 , 25, 675-84	2.4	14
70	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2014 , 50, 2890-2905	3.7	22
69	Adaptive shape prior constrained level sets for bladder MR image segmentation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 1707-16	7.2	32

68	Alternatively Constrained Dictionary Learning For Image Superresolution. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 366-77	10.2	73
67	Ultrasound-Based Predication of Prostate Cancer in MRI-guided Biopsy. <i>Lecture Notes in Computer Science</i> , 2014 , 142-150	0.9	3
66	Transfer learning for pedestrian detection. <i>Neurocomputing</i> , 2013 , 100, 51-57	5.4	32
65	Image registration by normalized mapping. <i>Neurocomputing</i> , 2013 , 101, 181-189	5.4	15
64	Visual Saliency by Selective Contrast. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2013 , 23, 1150-1155	6.4	68
63	Saliency Detection by Multiple-Instance Learning. <i>IEEE Transactions on Cybernetics</i> , 2013 , 43, 660-72	10.2	145
62	Pedestrian detection in unseen scenes by dynamically updating visual words. <i>Neurocomputing</i> , 2013 , 119, 232-242	5.4	3
61	SIFT on manifold: An intrinsic description. <i>Neurocomputing</i> , 2013 , 113, 227-233	5.4	7
60	Robust visual tracking with discriminative sparse learning. <i>Pattern Recognition</i> , 2013 , 46, 1762-1771	7.7	47
59	Greedy regression in sparse coding space for single-image super-resolution. <i>Journal of Visual Communication and Image Representation</i> , 2013 , 24, 148-159	2.7	51
58	Tracking vehicles as groups in airborne videos. <i>Neurocomputing</i> , 2013 , 99, 38-45	5.4	10
57	Learning saliency by MRF and differential threshold. <i>IEEE Transactions on Cybernetics</i> , 2013 , 43, 2032-43	10.2	24
56	Sparse coding for image denoising using spike and slab prior. <i>Neurocomputing</i> , 2013 , 106, 12-20	5.4	32
55	Manifold Regularized Sparse NMF for Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 2815-2826	8.1	262
54	Global structure constrained local shape prior estimation for medical image segmentation. <i>Computer Vision and Image Understanding</i> , 2013 , 117, 1017-1026	4.3	18
53	Prostate segmentation in MR images using discriminant boundary features. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 479-88	5	23
52	Multi-spectral saliency detection. <i>Pattern Recognition Letters</i> , 2013 , 34, 34-41	4.7	62
51	Image Super-Resolution Via Double Sparsity Regularized Manifold Learning. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2013 , 23, 2022-2033	6.4	62

50	Selecting Key Poses on Manifold for Pairwise Action Recognition. <i>IEEE Transactions on Industrial Informatics</i> , 2012 , 8, 168-177	11.9	39
49	Robust alternative minimization for matrix completion. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012 , 42, 939-49		25
48	Age-related changes in prostate zonal volumes as measured by high-resolution magnetic resonance imaging (MRI): a cross-sectional study in over 500 patients. <i>BJU International</i> , 2012 , 110, 1642-7	5.6	39
47	Vehicle detection and tracking in airborne videos by multi-motion layer analysis. <i>Machine Vision and Applications</i> , 2012 , 23, 921-935	2.8	35
46	Geometry constrained sparse coding for single image super-resolution 2012 ,		6
45	Confidence guided enhancing brain tumor segmentation in multi-parametric MRI 2012 ,		5
44	Visual Attention Accelerated Vehicle Detection in Low-Altitude Airborne Video of Urban Environment. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2012 , 22, 366-378	6.4	11
43	Machine learning in medical imaging. <i>International Journal of Biomedical Imaging</i> , 2012 , 2012, 123727	5.2	11
42	Coupled Directional Level Set for MR Image Segmentation 2012 ,		4
41	Multi-atlas Based Image Selection with Label Image Constraint 2012 ,		4
40	Linear SVM classification using boosting HOG features for vehicle detection in low-altitude airborne videos 2011 ,		53
39	DTAmico risk stratification correlates with degree of suspicion of prostate cancer on multiparametric magnetic resonance imaging. <i>Journal of Urology</i> , 2011 , 185, 815-20	2.5	99
38	Vehicle Detection and Motion Analysis in Low-Altitude Airborne Video Under Urban Environment. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011 , 21, 1522-1533	6.4	53
37	Magnetic resonance imaging/ultrasound fusion guided prostate biopsy improves cancer detection following transrectal ultrasound biopsy and correlates with multiparametric magnetic resonance imaging. <i>Journal of Urology</i> , 2011 , 186, 1281-5	2.5	367
36	Rapid pedestrian detection in unseen scenes. <i>Neurocomputing</i> , 2011 , 74, 3343-3350	5.4	6
35	Biopsy needle detection in transrectal ultrasound. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 653-9	7.6	20
34	Single-image super-resolution via local learning. <i>International Journal of Machine Learning and Cybernetics</i> , 2011 , 2, 15-23	3.8	73
33	A novel alternative algorithm for limited angle tomography 2011 ,		2

32	Adaptively learning local shape statistics for prostate segmentation in ultrasound. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 633-41	5	53
31	Robust color correction in stereo vision 2011 ,		10
30	Putting images on a manifold for atlas-based image segmentation 2011 ,		2
29	Single-Image Super-Resolution via Sparse Coding Regression 2011 ,		12
28	Single-image super-resolution based on semi-supervised learning 2011 ,		6
27	Estimating patient-specific shape prior for medical image segmentation 2011 ,		8
26	Local learning-based image super-resolution 2011 ,		8
25	Local semi-supervised regression for single-image super-resolution 2011 ,		6
24	Segmenting images by combining selected atlases on manifold. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 272-9	0.9	25
23	2011 ,		1
22	Image Denoising via Improved Sparse Coding 2011 ,		3
21	Medical Image Segmentation Using Descriptive Image Features 2011 ,		7
20	Segmenting TRUS video sequences using local shape statistics 2010 ,		2
19	Discrete deformable model guided by partial active shape model for TRUS image segmentation. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 1158-66	5	83
18	Incremental shape statistics learning for prostate tracking in TRUS. <i>Lecture Notes in Computer Science</i> , 2010 , 13, 42-9	0.9	6
17	Realtime TRUS/MRI Fusion Targeted-Biopsy for Prostate Cancer: A Clinical Demonstration of Increased Positive Biopsy Rates. <i>Lecture Notes in Computer Science</i> , 2010 , 52-62	0.9	9
16	Modeling interaction for segmentation of neighboring structures. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2009 , 13, 252-62		9
15	Optimal search guided by partial active shape model for prostate segmentation in TRUS images 2009 ,		5

14	Automatic segmentation of high-throughput RNAi fluorescent cellular images. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2008 , 12, 109-17		121
13	Learning 4D action feature models for arbitrary view action recognition 2008 ,		9
12	Action recognition using spatio-temporal regularity based features. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	5
11	Spatio-temporal Regularity Flow (SPREF): Its Estimation and Applications. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2007 , 17, 584-589	6.4	16
10	3D Model based Object Class Detection in An Arbitrary View 2007 ,		48
9	A Homographic Framework for the Fusion of Multi-view Silhouettes 2007 ,		20
8	Medical image segmentation using minimal path deformable models with implicit shape priors. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2006 , 10, 677-84		25
7	Segmentation of volumetric MRA images by using capillary active contour. <i>Medical Image Analysis</i> , 2006 , 10, 317-29	15.4	62
6	Motion compensated lossy-to-lossless compression of 4-D medical images using integer wavelet transforms. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2005 , 9, 132-8		18
5	Segmentation of neighboring organs in medical image with model competition. <i>Lecture Notes in Computer Science</i> , 2005 , 8, 270-7	0.9	8
4	MRA image segmentation with capillary active contour. <i>Lecture Notes in Computer Science</i> , 2005 , 8, 51-8	0.9	12
3	Medical image segmentation with minimal path deformable models		6
2	Ultra-fast fit-free analysis of complex fluorescence lifetime imaging via deep learning		1
1	Deep neural networks for the assessment of surgical skills: A systematic review. <i>Journal of Defense Modeling and Simulation</i> , 154851292110345	0.4	4