

# Pingkun Yan

## List of Publications by Citations

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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	Low-Dose CT Image Denoising Using a Generative Adversarial Network With Wasserstein Distance and Perceptual Loss. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 1348-1357	11.7	546
138	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> , <b>2011</b> , 186, 1281-5	2.5	367
137	Manifold Regularized Sparse NMF for Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2013</b> , 51, 2815-2826	8.1	262
136	Deep learning in medical image registration: a survey. <i>Machine Vision and Applications</i> , <b>2020</b> , 31, 1	2.8	162
135	Saliency Detection by Multiple-Instance Learning. <i>IEEE Transactions on Cybernetics</i> , <b>2013</b> , 43, 660-72	10.2	145
134	Automatic segmentation of high-throughput RNAi fluorescent cellular images. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2008</b> , 12, 109-17		121
133	DTAmico risk stratification correlates with degree of suspicion of prostate cancer on multiparametric magnetic resonance imaging. <i>Journal of Urology</i> , <b>2011</b> , 185, 815-20	2.5	99
132	Discrete deformable model guided by partial active shape model for TRUS image segmentation. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2010</b> , 57, 1158-66	5	83
131	Alternatively Constrained Dictionary Learning For Image Superresolution. <i>IEEE Transactions on Cybernetics</i> , <b>2014</b> , 44, 366-77	10.2	73
130	Single-image super-resolution via local learning. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2011</b> , 2, 15-23	3.8	73
129	Deeply-supervised CNN for prostate segmentation <b>2017</b> ,		71
128	Boundary-Weighted Domain Adaptive Neural Network for Prostate MR Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 753-763	11.7	71
127	Visual Saliency by Selective Contrast. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2013</b> , 23, 1150-1155	6.4	68
126	Multi-spectral saliency detection. <i>Pattern Recognition Letters</i> , <b>2013</b> , 34, 34-41	4.7	62
125	Image Super-Resolution Via Double Sparsity Regularized Manifold Learning. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2013</b> , 23, 2022-2033	6.4	62
124	Segmentation of volumetric MRA images by using capillary active contour. <i>Medical Image Analysis</i> , <b>2006</b> , 10, 317-29	15.4	62
123	Linear SVM classification using boosting HOG features for vehicle detection in low-altitude airborne videos <b>2011</b> ,		53

122	Vehicle Detection and Motion Analysis in Low-Altitude Airborne Video Under Urban Environment. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2011</b> , 21, 1522-1533	6.4	53
121	Adaptively learning local shape statistics for prostate segmentation in ultrasound. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2011</b> , 58, 633-41	5	53
120	Greedy regression in sparse coding space for single-image super-resolution. <i>Journal of Visual Communication and Image Representation</i> , <b>2013</b> , 24, 148-159	2.7	51
119	Learning deep similarity metric for 3D MR-TRUS image registration. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2019</b> , 14, 417-425	3.9	49
118	MR Image Super-Resolution via Wide Residual Networks With Fixed Skip Connection. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2019</b> , 23, 1129-1140	7.2	48
117	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> , <b>2019</b> , 116, 24019-24030	11.5	48
116	3D Model based Object Class Detection in An Arbitrary View <b>2007</b> ,		48
115	Robust visual tracking with discriminative sparse learning. <i>Pattern Recognition</i> , <b>2013</b> , 46, 1762-1771	7.7	47
114	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> , <b>2017</b> , 20, 436-441	6.2	42
113	Selecting Key Poses on Manifold for Pairwise Action Recognition. <i>IEEE Transactions on Industrial Informatics</i> , <b>2012</b> , 8, 168-177	11.9	39
112	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> , <b>2012</b> , 110, 1642-7	5.6	39
111	Vehicle detection and tracking in airborne videos by multi-motion layer analysis. <i>Machine Vision and Applications</i> , <b>2012</b> , 23, 921-935	2.8	35
110	Integrative analysis for COVID-19 patient outcome prediction. <i>Medical Image Analysis</i> , <b>2021</b> , 67, 101844	15.4	35
109	Deep Recurrent Neural Networks for Prostate Cancer Detection: Analysis of Temporal Enhanced Ultrasound. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 2695-2703	11.7	35
108	Net-FLICS: fast quantitative wide-field fluorescence lifetime imaging with compressed sensing - a deep learning approach. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 26	16.7	34
107	Adversarial Image Registration with Application for MR and TRUS Image Fusion. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 197-204	0.9	33
106	Transfer learning for pedestrian detection. <i>Neurocomputing</i> , <b>2013</b> , 100, 51-57	5.4	32
105	Adaptive shape prior constrained level sets for bladder MR image segmentation. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2014</b> , 18, 1707-16	7.2	32

104	Sparse coding for image denoising using spike and slab prior. <i>Neurocomputing</i> , <b>2013</b> , 106, 12-20	5.4	32
103	Exploiting Interslice Correlation for MRI Prostate Image Segmentation, from Recursive Neural Networks Aspect. <i>Complexity</i> , <b>2018</b> , 2018, 1-10	1.6	32
102	Multi-Organ Segmentation Over Partially Labeled Datasets With Multi-Scale Feature Abstraction. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 3619-3629	11.7	30
101	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> , <b>2017</b> , 12, 1293-1305	3.9	29
100	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> , <b>2015</b> , 33, 425.e1-425.e6	2.8	29
99	The role of image guided biopsy targeting in patients with atypical small acinar proliferation. <i>Journal of Urology</i> , <b>2015</b> , 193, 473-478	2.5	28
98	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> , <b>2020</b> , 47, 2526-2536	4.4	25
97	Robust alternative minimization for matrix completion. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2012</b> , 42, 939-49		25
96	Segmenting images by combining selected atlases on manifold. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 14, 272-9	0.9	25
95	Medical image segmentation using minimal path deformable models with implicit shape priors. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2006</b> , 10, 677-84		25
94	Learning saliency by MRF and differential threshold. <i>IEEE Transactions on Cybernetics</i> , <b>2013</b> , 43, 2032-43	10.2	24
93	Prostate segmentation in MR images using discriminant boundary features. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2013</b> , 60, 479-88	5	23
92	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2014</b> , 50, 2890-2905	3.7	22
91	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> , <b>2017</b> , 12, 1111-1121	3.9	21
90	Ego motion guided particle filter for vehicle tracking in airborne videos. <i>Neurocomputing</i> , <b>2014</b> , 124, 168-177	5.4	20
89	Biopsy needle detection in transrectal ultrasound. <i>Computerized Medical Imaging and Graphics</i> , <b>2011</b> , 35, 653-9	7.6	20
88	A Homographic Framework for the Fusion of Multi-view Silhouettes <b>2007</b> ,		20
87	Correlation-Based Tracking of Multiple Targets With Hierarchical Layered Structure. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 90-102	10.2	18

86	Feature Fusion Encoder Decoder Network for Automatic Liver Lesion Segmentation <b>2019</b> ,		18
85	Is visual registration equivalent to semiautomated registration in prostate biopsy?. <i>BioMed Research International</i> , <b>2015</b> , 2015, 394742	3	18
84	Global structure constrained local shape prior estimation for medical image segmentation. <i>Computer Vision and Image Understanding</i> , <b>2013</b> , 117, 1017-1026	4.3	18
83	Motion compensated lossy-to-lossless compression of 4-D medical images using integer wavelet transforms. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2005</b> , 9, 132-8		18
82	Label image constrained multiatlas selection. <i>IEEE Transactions on Cybernetics</i> , <b>2015</b> , 45, 1158-68	10.2	17
81	Shape prior constrained PSO model for bladder wall MRI segmentation. <i>Neurocomputing</i> , <b>2018</b> , 294, 19-28	5.4	17
80	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2014</b> , 50, 1374-1389	3.7	16
79	SpatioTemporal Regularity Flow (SPREF): Its Estimation and Applications. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2007</b> , 17, 584-589	6.4	16
78	Feature competition and partial sparse shape modeling for cardiac image sequences segmentation. <i>Neurocomputing</i> , <b>2015</b> , 149, 904-913	5.4	15
77	Image registration by normalized mapping. <i>Neurocomputing</i> , <b>2013</b> , 101, 181-189	5.4	15
76	Prostate biopsy for the interventional radiologist. <i>Journal of Vascular and Interventional Radiology</i> , <b>2014</b> , 25, 675-84	2.4	14
75	Deep neural maps for unsupervised visualization of high-grade cancer in prostate biopsies. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2019</b> , 14, 1009-1016	3.9	13
74	High compression deep learning based single-pixel hyperspectral macroscopic fluorescence lifetime imaging. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 5401-5424	3.5	13
73	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> , <b>2018</b> , 65, 400-410	3.2	12
72	Single-Image Super-Resolution via Sparse Coding Regression <b>2011</b> ,		12
71	MRA image segmentation with capillary active contour. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 8, 51-8	0.9	12
70	Hierarchical incorporation of shape and shape dynamics for flying bird detection. <i>Neurocomputing</i> , <b>2014</b> , 131, 179-190	5.4	11
69	Visual Attention Accelerated Vehicle Detection in Low-Altitude Airborne Video of Urban Environment. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2012</b> , 22, 366-378	6.4	11

68	Machine learning in medical imaging. <i>International Journal of Biomedical Imaging</i> , <b>2012</b> , 2012, 123727	5.2	11
67	Deep adaptive registration of multi-modal prostate images. <i>Computerized Medical Imaging and Graphics</i> , <b>2020</b> , 84, 101769	7.6	11
66	Deep learning predicts cardiovascular disease risks from lung cancer screening low dose computed tomography. <i>Nature Communications</i> , <b>2021</b> , 12, 2963	17.4	11
65	Knowledge-Based Analysis for Mortality Prediction From CT Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2020</b> , 24, 457-464	7.2	11
64	Cross-Modal Attention for MRI and Ultrasound Volume Registration. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 66-75	0.9	11
63	A Deep Learning Health Data Analysis Approach: Automatic 3D Prostate MR Segmentation with Densely-Connected Volumetric ConvNets <b>2018</b> ,		11
62	Tracking vehicles as groups in airborne videos. <i>Neurocomputing</i> , <b>2013</b> , 99, 38-45	5.4	10
61	Robust color correction in stereo vision <b>2011</b> ,		10
60	Association of AI quantified COVID-19 chest CT and patient outcome. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2021</b> , 16, 435-445	3.9	10
59	Partial sparse shape constrained sector-driven bladder wall segmentation. <i>Machine Vision and Applications</i> , <b>2015</b> , 26, 593-606	2.8	9
58	Synergizing medical imaging and radiotherapy with deep learning. <i>Machine Learning: Science and Technology</i> , <b>2020</b> , 1, 021001	5.1	9
57	Modeling interaction for segmentation of neighboring structures. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2009</b> , 13, 252-62		9
56	Learning 4D action feature models for arbitrary view action recognition <b>2008</b> ,		9
55	Sensorless Freehand 3D Ultrasound Reconstruction via Deep Contextual Learning. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 463-472	0.9	9
54	Realtime TRUS/MRI Fusion Targeted-Biopsy for Prostate Cancer: A Clinical Demonstration of Increased Positive Biopsy Rates. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 52-62	0.9	9
53	Estimating patient-specific shape prior for medical image segmentation <b>2011</b> ,		8
52	Local learning-based image super-resolution <b>2011</b> ,		8
51	Deep learning-based liver segmentation for fusion-guided intervention. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2020</b> , 15, 963-972	3.9	8

50	Segmentation of neighboring organs in medical image with model competition. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 8, 270-7	0.9	8
49	SIFT on manifold: An intrinsic description. <i>Neurocomputing</i> , <b>2013</b> , 113, 227-233	5.4	7
48	Medical Image Segmentation Using Descriptive Image Features <b>2011</b> ,		7
47	Classifying Cancer Grades Using Temporal Ultrasound for Transrectal Prostate Biopsy. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 653-661	0.9	7
46	Toward a real-time system for temporal enhanced ultrasound-guided prostate biopsy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2018</b> , 13, 1201-1209	3.9	6
45	Geometry constrained sparse coding for single image super-resolution <b>2012</b> ,		6
44	Rapid pedestrian detection in unseen scenes. <i>Neurocomputing</i> , <b>2011</b> , 74, 3343-3350	5.4	6
43	Single-image super-resolution based on semi-supervised learning <b>2011</b> ,		6
42	Local semi-supervised regression for single-image super-resolution <b>2011</b> ,		6
41	Medical image segmentation with minimal path deformable models		6
40	Incremental shape statistics learning for prostate tracking in TRUS. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 13, 42-9	0.9	6
39	Learning from Noisy Label Statistics: Detecting High Grade Prostate Cancer in Ultrasound Guided Biopsy. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 21-29	0.9	6
38	PASiam: Predicting Attention Inspired Siamese Network, for Space-Borne Satellite Video Tracking <b>2019</b> ,		5
37	Confidence guided enhancing brain tumor segmentation in multi-parametric MRI <b>2012</b> ,		5
36	Optimal search guided by partial active shape model for prostate segmentation in TRUS images <b>2009</b> ,		5
35	Action recognition using spatio-temporal regularity based features. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , <b>2008</b> ,	1.6	5
34	Unsupervised Domain Adaptation with Dual-Scheme Fusion Network for Medical Image Segmentation <b>2020</b> ,		5
33	Coupled Directional Level Set for MR Image Segmentation <b>2012</b> ,		4

32	Multi-atlas Based Image Selection with Label Image Constraint <b>2012</b> ,		4
31	OASIS: One-pass aligned Atlas Set for Medical Image Segmentation. <i>Neurocomputing</i> , <b>2021</b> , 470, 130-130	5.4	4
30	Deep compressive macroscopic fluorescence lifetime imaging <b>2018</b> ,		4
29	Deep neural networks for the assessment of surgical skills: A systematic review. <i>Journal of Defense Modeling and Simulation</i> , 154851292110345	0.4	4
28	Pedestrian detection in unseen scenes by dynamically updating visual words. <i>Neurocomputing</i> , <b>2013</b> , 119, 232-242	5.4	3
27	Image Denoising via Improved Sparse Coding <b>2011</b> ,		3
26	Ultrasound-Based Predication of Prostate Cancer in MRI-guided Biopsy. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 142-150	0.9	3
25	Functional Brain Imaging Reliably Predicts Bimanual Motor Skill Performance in a Standardized Surgical Task. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 2058-2066	5	3
24	Task-Oriented Low-Dose CT Image Denoising. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 441-450	0.9	3
23	End-to-end Ultrasound Frame to Volume Registration. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 56-65	0.9	3
22	Tissue mimicking simulations for temporal enhanced ultrasound-based tissue typing <b>2017</b> ,		2
21	MP20-16 TRAINING AND SKILLS ASSESSMENT FOR FUSION-GUIDED PROSTATE BIOPSY: DEFINING THE LEARNING CURVE. <i>Journal of Urology</i> , <b>2016</b> , 195,	2.5	2
20	Monitoring of radiofrequency ablation with shear wave delay mapping <b>2015</b> ,		2
19	Segmenting TRUS video sequences using local shape statistics <b>2010</b> ,		2
18	A novel alternative algorithm for limited angle tomography <b>2011</b> ,		2
17	Putting images on a manifold for atlas-based image segmentation <b>2011</b> ,		2
16	Decreasing the Surgical Errors by Neurostimulation of Primary Motor Cortex and the Associated Brain Activation via Neuroimaging. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 651192	5.1	2
15	Multi-Task Learning for Registering Images With Large Deformation. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2021</b> , 25, 1624-1633	7.2	2

14	Deep learning for biomechanical modeling of facial tissue deformation in orthognathic surgical planning.. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2022</b> , 1	3.9	2
13	<b>2011</b> ,		1
12	Ultra-fast fit-free analysis of complex fluorescence lifetime imaging via deep learning		1
11	FNIRS as a Quantitative tool to Asses and Predict Surgical Skills <b>2019</b> ,		1
10	Prediction of Coronary Calcification and Stenosis: Role of Radiomics From Low-Dose CT. <i>Academic Radiology</i> , <b>2021</b> , 28, 972-979	4.3	1
9	Polar transform network for prostate ultrasound segmentation with uncertainty estimation.. <i>Medical Image Analysis</i> , <b>2022</b> , 78, 102418	15.4	1
8	Deep learning-based motion artifact removal in functional near-infrared spectroscopy.. <i>Neurophotonics</i> , <b>2022</b> , 9, 041406	3.9	1
7	On a Sparse Shortcut Topology of Artificial Neural Networks. <i>IEEE Transactions on Artificial Intelligence</i> , <b>2021</b> , 1-1	4.7	0
6	Data Augmentation for Training Deep Neural Networks <b>2021</b> , 151-164		0
5	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> , <b>2021</b> , 2021, 4592-4595	0.9	0
4	Division and Fusion: Rethink Convolutional Kernels for 3D Medical Image Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 160-169	0.9	
3	Biomedical imaging and analysis through deep learning <b>2021</b> , 49-74		
2	Cardiovascular Disease Risk Improves COVID-19 Patient Outcome Prediction. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 467-476	0.9	
1	Transformed Grid Distance Loss for Supervised Image Registration. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 177-181	0.9	