

# Yipeng Hu

## List of Publications by Citations

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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.

58

papers

1,708

citations

21

h-index

41

g-index

67

ext. papers

2,176

ext. citations

5.9

avg, IF

4.56

L-index

#	Paper	IF	Citations
58	NiftyNet: a deep-learning platform for medical imaging. <i>Computer Methods and Programs in Biomedicine</i> , <b>2018</b> , 158, 113-122	6.9	284
57	Automatic Multi-Organ Segmentation on Abdominal CT With Dense V-Networks. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 1822-1834	11.7	243
56	Weakly-supervised convolutional neural networks for multimodal image registration. <i>Medical Image Analysis</i> , <b>2018</b> , 49, 1-13	15.4	154
55	MR to ultrasound registration for image-guided prostate interventions. <i>Medical Image Analysis</i> , <b>2012</b> , 16, 687-703	15.4	123
54	The accuracy of different biopsy strategies for the detection of clinically important prostate cancer: a computer simulation. <i>Journal of Urology</i> , <b>2012</b> , 188, 974-80	2.5	75
53	A biopsy simulation study to assess the accuracy of several transrectal ultrasonography (TRUS)-biopsy strategies compared with template prostate mapping biopsies in patients who have undergone radical prostatectomy. <i>BJU International</i> , <b>2012</b> , 110, 812-20	5.6	72
52	The PICTURE study: diagnostic accuracy of multiparametric MRI in men requiring a repeat prostate biopsy. <i>British Journal of Cancer</i> , <b>2017</b> , 116, 1159-1165	8.7	71
51	Label-driven weakly-supervised learning for multimodal deformable image registration <b>2018</b> ,		46
50	Prostate cancer risk inflation as a consequence of image-targeted biopsy of the prostate: a computer simulation study. <i>European Urology</i> , <b>2014</b> , 65, 628-34	10.2	45
49	NiftySim: A GPU-based nonlinear finite element package for simulation of soft tissue biomechanics. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2015</b> , 10, 1077-95	3.9	44
48	The PICTURE study -- prostate imaging (multi-parametric MRI and Prostate HistoScanning)] compared to transperineal ultrasound guided biopsy for significant prostate cancer risk evaluation. <i>Contemporary Clinical Trials</i> , <b>2014</b> , 37, 69-83	2.3	43
47	Image-directed, tissue-preserving focal therapy of prostate cancer: a feasibility study of a novel deformable magnetic resonance-ultrasound (MR-US) registration system. <i>BJU International</i> , <b>2013</b> , 112, 594-601	5.6	42
46	The SmartTarget Biopsy Trial: A Prospective, Within-person Randomised, Blinded Trial Comparing the Accuracy of Visual-registration and Magnetic Resonance Imaging/Ultrasound Image-fusion Targeted Biopsies for Prostate Cancer Risk Stratification. <i>European Urology</i> , <b>2019</b> , 75, 733-740	10.2	40
45	Modelling prostate motion for data fusion during image-guided interventions. <i>IEEE Transactions on Medical Imaging</i> , <b>2011</b> , 30, 1887-900	11.7	39
44	Automatic segmentation of prostate MRI using convolutional neural networks: Investigating the impact of network architecture on the accuracy of volume measurement and MRI-ultrasound registration. <i>Medical Image Analysis</i> , <b>2019</b> , 58, 101558	15.4	29
43	Accuracy of Transperineal Targeted Prostate Biopsies, Visual Estimation and Image Fusion in Men Needing Repeat Biopsy in the PICTURE Trial. <i>Journal of Urology</i> , <b>2018</b> , 200, 1227-1234	2.5	28
42	Population-based prediction of subject-specific prostate deformation for MR-to-ultrasound image registration. <i>Medical Image Analysis</i> , <b>2015</b> , 26, 332-44	15.4	27

41	Adversarial Deformation Regularization for Training Image Registration Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 774-782	0.9	27
40	Inter-site Variability in Prostate Segmentation Accuracy Using Deep Learning. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 506-514	0.9	26
39	Integration of spatial information in convolutional neural networks for automatic segmentation of intraoperative transrectal ultrasound images. <i>Journal of Medical Imaging</i> , <b>2019</b> , 6, 011003	2.6	21
38	Towards Image-Guided Pancreas and Biliary Endoscopy: Automatic Multi-organ Segmentation on Abdominal CT with Dense Dilated Networks. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 728-736	0.9	19
37	Biomechanical modeling constrained surface-based image registration for prostate MR guided TRUS biopsy. <i>Medical Physics</i> , <b>2015</b> , 42, 2470-81	4.4	15
36	MR to ultrasound image registration for guiding prostate biopsy and interventions. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 12, 787-94	0.9	13
35	Identifying the index lesion with template prostate mapping biopsies. <i>Journal of Urology</i> , <b>2015</b> , 193, 1185-90	2.5	12
34	A comparison of the accuracy of statistical models of prostate motion trained using data from biomechanical simulations. <i>Progress in Biophysics and Molecular Biology</i> , <b>2010</b> , 103, 262-72	4.7	12
33	Development and Phantom Validation of a 3-D-Ultrasound-Guided System for Targeting MRI-Visible Lesions During Transrectal Prostate Biopsy. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2017</b> , 64, 946-958	5	11
32	Automatic segmentation method of pelvic floor levator hiatus in ultrasound using a self-normalizing neural network. <i>Journal of Medical Imaging</i> , <b>2018</b> , 5, 021206	2.6	11
31	An evaluation of irreversible electroporation thresholds in human prostate cancer and potential correlations to physiological measurements. <i>APL Bioengineering</i> , <b>2017</b> , 1, 016101	6.6	9
30	Designing image segmentation studies: Statistical power, sample size and reference standard quality. <i>Medical Image Analysis</i> , <b>2017</b> , 42, 44-59	15.4	9
29	Automatic slice segmentation of intraoperative transrectal ultrasound images using convolutional neural networks <b>2018</b> ,		8
28	Immunohistochemical biomarker validation in highly selective needle biopsy microarrays derived from mpMRI-characterized prostates. <i>Prostate</i> , <b>2018</b> , 78, 1229-1237	4.2	7
27	Intraoperative Organ Motion Models with an Ensemble of Conditional Generative Adversarial Networks. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 368-376	0.9	7
26	Technical Note: Error metrics for estimating the accuracy of needle/instrument placement during transperineal magnetic resonance/ultrasound-guided prostate interventions. <i>Medical Physics</i> , <b>2018</b> , 45, 1408-1414	4.4	6
25	DeepReg: a deep learning toolkit for medical image registration. <i>Journal of Open Source Software</i> , <b>2020</b> , 5, 2705	5.2	6
24	A statistical motion model based on biomechanical simulations for data fusion during image-guided prostate interventions. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 737-44	0.9	6

23	Determination of optimal ultrasound planes for the initialisation of image registration during endoscopic ultrasound-guided procedures. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2018</b> , 13, 875-883	3.9	5
22	Conditional Segmentation in Lieu of Image Registration. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 401-409	0.9	5
21	An Unsupervised Approach to Ultrasound Elastography with End-to-end Strain Regularisation. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 573-582	0.9	5
20	Modelling Prostate Gland Motion for Image-Guided Interventions. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 79-88	0.9	5
19	MP33-20 THE SMARTTARGET BIOPSY TRIAL: A PROSPECTIVE PAIRED BLINDED TRIAL WITH RANDOMISATION TO COMPARE VISUAL-ESTIMATION AND IMAGE-FUSION TARGETED PROSTATE BIOPSIES. <i>Journal of Urology</i> , <b>2017</b> , 197,	2.5	4
18	Multimodality Biomedical Image Registration Using Free Point Transformer Networks. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 116-125	0.9	4
17	Real-time multimodal image registration with partial intraoperative point-set data. <i>Medical Image Analysis</i> , <b>2021</b> , 74, 102231	15.4	4
16	Prostate Motion Modelling Using Biomechanically-Trained Deep Neural Networks on Unstructured Nodes. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 650-659	0.9	3
15	False Positive Multiparametric Magnetic Resonance Imaging Phenotypes in the Biopsy-naïve Prostate: Are They Distinct from Significant Cancer-associated Lesions? Lessons from PROMIS. <i>European Urology</i> , <b>2021</b> , 79, 20-29	10.2	3
14	An unsupervised learning approach to ultrasound strain elastography with spatio-temporal consistency. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66,	3.8	3
13	Hybrid Decision Forests for Prostate Segmentation in Multi-channel MR Images <b>2014</b> ,		2
12	Surface-based prostate registration with biomechanical regularization <b>2013</b> ,		2
11	Longitudinal Image Registration with Temporal-Order and Subject-Specificity Discrimination. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 243-252	0.9	2
10	Lung Ultrasound Segmentation and Adaptation Between COVID-19 and Community-Acquired Pneumonia. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 45-53	0.9	2
9	Image quality assessment for machine learning tasks using meta-reinforcement learning.. <i>Medical Image Analysis</i> , <b>2022</b> , 78, 102427	15.4	2
8	Assisted Probe Positioning for Ultrasound Guided Radiotherapy Using Image Sequence Classification. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 544-552	0.9	1
7	A critical evaluation of visual proportion of Gleason 4 and maximum cancer core length quantified by histopathologists. <i>Scientific Reports</i> , <b>2020</b> , 10, 17177	4.9	1
6	Mapping PSA density to outcome of MRI-based active surveillance for prostate cancer through joint longitudinal-survival models. <i>Prostate Cancer and Prostatic Diseases</i> , <b>2021</b> , 24, 1028-1031	6.2	1

5	Adaptable Image Quality Assessment Using Meta-Reinforcement Learning of Task Amenability. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 191-201	0.9	1
4	AI reflections in 2020. <i>Nature Machine Intelligence</i> , <b>2021</b> , 3, 2-8	22.5	1
3	Deep hashing for global registration of untracked 2D laparoscopic ultrasound to CT.. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2022</b> , 1	3.9	0
2	Applications of Statistical Deformation Model <b>2017</b> , 301-327		
1	Imaging features for the prediction of clinical endpoints in chronic liver disease: a scoping review protocol.. <i>BMJ Open</i> , <b>2022</b> , 12, e053204	3	