

Yipeng Hu

List of Publications by Year in Descending Order

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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	Deep hashing for global registration of untracked 2D laparoscopic ultrasound to CT.. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2022 , 1	3.9	0
57	Image quality assessment for machine learning tasks using meta-reinforcement learning.. <i>Medical Image Analysis</i> , 2022 , 78, 102427	15.4	2
56	Imaging features for the prediction of clinical endpoints in chronic liver disease: a scoping review protocol.. <i>BMJ Open</i> , 2022 , 12, e053204	3	
55	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> , 2021 , 24, 1028-1031	6.2	1
54	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> , 2021 , 79, 20-29	10.2	3
53	Adaptable Image Quality Assessment Using Meta-Reinforcement Learning of Task Amenability. <i>Lecture Notes in Computer Science</i> , 2021 , 191-201	0.9	1
52	AI reflections in 2020. <i>Nature Machine Intelligence</i> , 2021 , 3, 2-8	22.5	1
51	An unsupervised learning approach to ultrasound strain elastography with spatio-temporal consistency. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	3
50	Real-time multimodal image registration with partial intraoperative point-set data. <i>Medical Image Analysis</i> , 2021 , 74, 102231	15.4	4
49	Lung Ultrasound Segmentation and Adaptation Between COVID-19 and Community-Acquired Pneumonia. <i>Lecture Notes in Computer Science</i> , 2021 , 45-53	0.9	2
48	Longitudinal Image Registration with Temporal-Order and Subject-Specificity Discrimination. <i>Lecture Notes in Computer Science</i> , 2020 , 243-252	0.9	2
47	DeepReg: a deep learning toolkit for medical image registration. <i>Journal of Open Source Software</i> , 2020 , 5, 2705	5.2	6
46	Multimodality Biomedical Image Registration Using Free Point Transformer Networks. <i>Lecture Notes in Computer Science</i> , 2020 , 116-125	0.9	4
45	Assisted Probe Positioning for Ultrasound Guided Radiotherapy Using Image Sequence Classification. <i>Lecture Notes in Computer Science</i> , 2020 , 544-552	0.9	1
44	An Unsupervised Approach to Ultrasound Elastography with End-to-end Strain Regularisation. <i>Lecture Notes in Computer Science</i> , 2020 , 573-582	0.9	5
43	Prostate Motion Modelling Using Biomechanically-Trained Deep Neural Networks on Unstructured Nodes. <i>Lecture Notes in Computer Science</i> , 2020 , 650-659	0.9	3
42	A critical evaluation of visual proportion of Gleason 4 and maximum cancer core length quantified by histopathologists. <i>Scientific Reports</i> , 2020 , 10, 17177	4.9	1

41	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> , 2019 , 58, 101558	15.4	29
40	Integration of spatial information in convolutional neural networks for automatic segmentation of intraoperative transrectal ultrasound images. <i>Journal of Medical Imaging</i> , 2019 , 6, 011003	2.6	21
39	Conditional Segmentation in Lieu of Image Registration. <i>Lecture Notes in Computer Science</i> , 2019 , 401-409	9	5
38	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> , 2019 , 75, 733-740	10.2	40
37	Technical Note: Error metrics for estimating the accuracy of needle/instrument placement during transperineal magnetic resonance/ultrasound-guided prostate interventions. <i>Medical Physics</i> , 2018 , 45, 1408-1414	4.4	6
36	NiftyNet: a deep-learning platform for medical imaging. <i>Computer Methods and Programs in Biomedicine</i> , 2018 , 158, 113-122	6.9	284
35	Automatic Multi-Organ Segmentation on Abdominal CT With Dense V-Networks. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 1822-1834	11.7	243
34	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> , 2018 , 13, 875-883	3.9	5
33	Immunohistochemical biomarker validation in highly selective needle biopsy microarrays derived from mpMRI-characterized prostates. <i>Prostate</i> , 2018 , 78, 1229-1237	4.2	7
32	Weakly-supervised convolutional neural networks for multimodal image registration. <i>Medical Image Analysis</i> , 2018 , 49, 1-13	15.4	154
31	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> , 2018 , 200, 1227-1234	2.5	28
30	Automatic segmentation method of pelvic floor levator hiatus in ultrasound using a self-normalizing neural network. <i>Journal of Medical Imaging</i> , 2018 , 5, 021206	2.6	11
29	Automatic slice segmentation of intraoperative transrectal ultrasound images using convolutional neural networks 2018 ,		8
28	Adversarial Deformation Regularization for Training Image Registration Neural Networks. <i>Lecture Notes in Computer Science</i> , 2018 , 774-782	0.9	27
27	Inter-site Variability in Prostate Segmentation Accuracy Using Deep Learning. <i>Lecture Notes in Computer Science</i> , 2018 , 506-514	0.9	26
26	Label-driven weakly-supervised learning for multimodal deformable image registration 2018 ,		46
25	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> , 2017 , 64, 946-958	5	11
24	The PICTURE study: diagnostic accuracy of multiparametric MRI in men requiring a repeat prostate biopsy. <i>British Journal of Cancer</i> , 2017 , 116, 1159-1165	8.7	71

23	An evaluation of irreversible electroporation thresholds in human prostate cancer and potential correlations to physiological measurements. <i>APL Bioengineering</i> , 2017 , 1, 016101	6.6	9
22	Intraoperative Organ Motion Models with an Ensemble of Conditional Generative Adversarial Networks. <i>Lecture Notes in Computer Science</i> , 2017 , 368-376	0.9	7
21	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> , 2017 , 728-736	0.9	19
20	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> , 2017 , 197,	2.5	4
19	Designing image segmentation studies: Statistical power, sample size and reference standard quality. <i>Medical Image Analysis</i> , 2017 , 42, 44-59	15.4	9
18	Applications of Statistical Deformation Model 2017 , 301-327		
17	Population-based prediction of subject-specific prostate deformation for MR-to-ultrasound image registration. <i>Medical Image Analysis</i> , 2015 , 26, 332-44	15.4	27
16	NiftySim: A GPU-based nonlinear finite element package for simulation of soft tissue biomechanics. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 1077-95	3.9	44
15	Biomechanical modeling constrained surface-based image registration for prostate MR guided TRUS biopsy. <i>Medical Physics</i> , 2015 , 42, 2470-81	4.4	15
14	Identifying the index lesion with template prostate mapping biopsies. <i>Journal of Urology</i> , 2015 , 193, 1185-90	2.5	12
13	Hybrid Decision Forests for Prostate Segmentation in Multi-channel MR Images 2014 ,		2
12	Prostate cancer risk inflation as a consequence of image-targeted biopsy of the prostate: a computer simulation study. <i>European Urology</i> , 2014 , 65, 628-34	10.2	45
11	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> , 2014 , 37, 69-83	2.3	43
10	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> , 2013 , 112, 594-601	5.6	42
9	Surface-based prostate registration with biomechanical regularization 2013 ,		2
8	MR to ultrasound registration for image-guided prostate interventions. <i>Medical Image Analysis</i> , 2012 , 16, 687-703	15.4	123
7	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> , 2012 , 110, 812-20	5.6	72
6	The accuracy of different biopsy strategies for the detection of clinically important prostate cancer: a computer simulation. <i>Journal of Urology</i> , 2012 , 188, 974-80	2.5	75

5	Modelling prostate motion for data fusion during image-guided interventions. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 1887-900	11.7	39
4	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> , 2010 , 103, 262-72	4.7	12
3	MR to ultrasound image registration for guiding prostate biopsy and interventions. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 787-94	0.9	13
2	Modelling Prostate Gland Motion for Image-Guided Interventions. <i>Lecture Notes in Computer Science</i> , 2008 , 79-88	0.9	5
1	A statistical motion model based on biomechanical simulations for data fusion during image-guided prostate interventions. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 737-44	0.9	6