Yipeng Hu

List of Publications by Year
in descending order

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67 papers	2,558 citations	331259 21 h-index	197535 49 g-index
67 all docs	67 docs citations	67 times ranked	3482 citing authors

#	Article	IF	Citations
1	Automatic Multi-Organ Segmentation on Abdominal CT With Dense V-Networks. IEEE Transactions on Medical Imaging, 2018, 37, 1822-1834.	5.4	436
2	NiftyNet: a deep-learning platform for medical imaging. Computer Methods and Programs in Biomedicine, 2018, 158, 113-122.	2.6	407
3	Weakly-supervised convolutional neural networks for multimodal image registration. Medical Image Analysis, 2018, 49, 1-13.	7.0	280
4	MR to ultrasound registration for image-guided prostate interventions. Medical Image Analysis, 2012, 16, 687-703.	7.0	148
5	The PICTURE study: diagnostic accuracy of multiparametric MRI in men requiring a repeat prostate biopsy. British Journal of Cancer, 2017, 116, 1159-1165.	2.9	90
6	The Accuracy of Different Biopsy Strategies for the Detection of Clinically Important Prostate Cancer: A Computer Simulation. Journal of Urology, 2012, 188, 974-980.	0.2	84
7	A biopsy simulation study to assess the accuracy of several transrectal ultrasonography (TRUS)â€biopsy strategies compared with template prostate mapping biopsies in patients who have undergone radical prostatectomy. BJU International, 2012, 110, 812-820.	1.3	79
8	Label-driven weakly-supervised learning for multimodal deformarle image registration. , 2018, , .		67
9	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. European Urology, 2019, 75, 733-740.	0.9	67
10	NiftySim: A GPU-based nonlinear finite element package for simulation of soft tissue biomechanics. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1077-1095.	1.7	58
11	Prostate Cancer Risk Inflation as a Consequence of Image-targeted Biopsy of the Prostate: A Computer Simulation Study. European Urology, 2014, 65, 628-634.	0.9	55
12	The PICTURE study â€" Prostate Imaging (multi-parametric MRI and Prostate HistoScanningâ„¢) Compared to Transperineal Ultrasound guided biopsy for significant prostate cancer Risk Evaluation. Contemporary Clinical Trials, 2014, 37, 69-83.	0.8	50
13	Modelling Prostate Motion for Data Fusion During Image-Guided Interventions. IEEE Transactions on Medical Imaging, 2011, 30, 1887-1900.	5.4	46
14	Imageâ€directed, tissueâ€preserving focal therapy of prostate cancer: a feasibility study of a novel deformable magnetic resonanceâ€ultrasound (<scp>MRâ€US</scp>) registration system. BJU International, 2013, 112, 594-601.	1.3	45
15	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. Medical Image Analysis, 2019, 58, 101558.	7.0	45
16	The challenges of deploying artificial intelligence models in a rapidly evolving pandemic. Nature Machine Intelligence, 2020, 2, 298-300.	8.3	45
17	Adversarial Deformation Regularization for Training Image Registration Neural Networks. Lecture Notes in Computer Science, 2018, , 774-782.	1.0	42
18	Accuracy of Transperineal Targeted Prostate Biopsies, Visual Estimation and Image Fusion in Men Needing Repeat Biopsy in the PICTURE Trial. Journal of Urology, 2018, 200, 1227-1234.	0.2	38

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19	Inter-site Variability in Prostate Segmentation Accuracy Using Deep Learning. Lecture Notes in Computer Science, 2018, , 506-514.	1.0	37
20	Population-based prediction of subject-specific prostate deformation for MR-to-ultrasound image registration. Medical Image Analysis, 2015, 26, 332-344.	7.0	33
21	Towards Image-Guided Pancreas and Biliary Endoscopy: Automatic Multi-organ Segmentation on Abdominal CT with Dense Dilated Networks. Lecture Notes in Computer Science, 2017, , 728-736.	1.0	28
22	Integration of spatial information in convolutional neural networks for automatic segmentation of intraoperative transrectal ultrasound images. Journal of Medical Imaging, 2018, 6, 1.	0.8	23
23	Automatic segmentation method of pelvic floor levator hiatus in ultrasound using a self-normalizing neural network. Journal of Medical Imaging, 2018, 5, 1.	0.8	19
24	DeepReg: a deep learning toolkit for medical image registration. Journal of Open Source Software, 2020, 5, 2705.	2.0	19
25	Image quality assessment for machine learning tasks using meta-reinforcement learning. Medical Image Analysis, 2022, 78, 102427.	7.0	19
26	Biomechanical modeling constrained surfaceâ€based image registration for prostate MR guided TRUS biopsy. Medical Physics, 2015, 42, 2470-2481.	1.6	18
27	An evaluation of irreversible electroporation thresholds in human prostate cancer and potential correlations to physiological measurements. APL Bioengineering, 2017, 1, 016101.	3.3	17
28	MR to Ultrasound Image Registration for Guiding Prostate Biopsy and Interventions. Lecture Notes in Computer Science, 2009, 12, 787-794.	1.0	16
29	Identifying the Index Lesion with Template Prostate Mapping Biopsies. Journal of Urology, 2015, 193, 1185-1190.	0.2	16
30	An unsupervised learning approach to ultrasound strain elastography with spatio-temporal consistency. Physics in Medicine and Biology, 2021, 66, 175031.	1.6	16
31	Development and Phantom Validation of a 3-D-Ultrasound-Guided System for Targeting MRI-Visible Lesions During Transrectal Prostate Biopsy. IEEE Transactions on Biomedical Engineering, 2017, 64, 946-958.	2.5	14
32	Real-time multimodal image registration with partial intraoperative point-set data. Medical Image Analysis, 2021, 74, 102231.	7.0	14
33	A comparison of the accuracy of statistical models of prostate motion trained using data from biomechanical simulations. Progress in Biophysics and Molecular Biology, 2010, 103, 262-272.	1.4	13
34	False Positive Multiparametric Magnetic Resonance Imaging Phenotypes in the Biopsy-naÃ¯ve Prostate: Are They Distinct from Significant Cancer-associated Lesions? Lessons from PROMIS. European Urology, 2021, 79, 20-29.	0.9	13
35	Designing image segmentation studies: Statistical power, sample size and reference standard quality. Medical Image Analysis, 2017, 42, 44-59.	7.0	12
36	An Unsupervised Approach to Ultrasound Elastography with End-to-end Strain Regularisation. Lecture Notes in Computer Science, 2020, , 573-582.	1.0	12

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37	Mapping PSA density to outcome of MRI-based active surveillance for prostate cancer through joint longitudinal-survival models. Prostate Cancer and Prostatic Diseases, 2021, 24, 1028-1031.	2.0	10
38	Immunohistochemical biomarker validation in highly selective needle biopsy microarrays derived from mpMRIâ€characterized prostates. Prostate, 2018, 78, 1229-1237.	1.2	9
39	A Statistical Motion Model Based on Biomechanical Simulations for Data Fusion during Image-Guided Prostate Interventions. Lecture Notes in Computer Science, 2008, 11, 737-744.	1.0	9
40	Automatic slice segmentation of intraoperative transrectal ultrasound images using convolutional neural networks. , 2018, , .		9
41	Voice-Assisted Image Labeling for Endoscopic Ultrasound Classification Using Neural Networks. IEEE Transactions on Medical Imaging, 2022, 41, 1311-1319.	5.4	9
42	Intraoperative Organ Motion Models with an Ensemble of Conditional Generative Adversarial Networks. Lecture Notes in Computer Science, 2017, , 368-376.	1.0	8
43	Conditional Segmentation in Lieu of Image Registration. Lecture Notes in Computer Science, 2019, , 401-409.	1.0	8
44	Technical Note: Error metrics for estimating the accuracy of needle/instrument placement during transperineal magnetic resonance/ultrasoundâ€guided prostate interventions. Medical Physics, 2018, 45, 1408-1414.	1.6	7
45	AI reflections in 2020. Nature Machine Intelligence, 2021, 3, 2-8.	8.3	7
46	Multimodality Biomedical Image Registration Using Free Point Transformer Networks. Lecture Notes in Computer Science, 2020, , 116-125.	1.0	7
47	Determination of optimal ultrasound planes for the initialisation of image registration during endoscopic ultrasound-guided procedures. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 875-883.	1.7	6
48	Assisted Probe Positioning for Ultrasound Guided Radiotherapy Using Image Sequence Classification. Lecture Notes in Computer Science, 2020, , 544-552.	1.0	5
49	Modelling Prostate Gland Motion for Image-Guided Interventions. Lecture Notes in Computer Science, 2008, , 79-88.	1.0	5
50	Longitudinal Image Registration with Temporal-Order and Subject-Specificity Discrimination. Lecture Notes in Computer Science, 2020, , 243-252.	1.0	5
51	MP33-20 THE SMARTTARGET BIOPSY TRIAL: A PROSPECTIVE PAIRED BLINDED TRIAL WITH RANDOMISATION TO COMPARE VISUAL-ESTIMATION AND IMAGE-FUSION TARGETED PROSTATE BIOPSIES. Journal of Urology, 2017, 197, .	0.2	4
52	A critical evaluation of visual proportion of Gleason 4 and maximum cancer core length quantified by histopathologists. Scientific Reports, 2020, 10, 17177.	1.6	4
53	Adaptable Image Quality Assessment Using Meta-Reinforcement Learning of Task Amenability. Lecture Notes in Computer Science, 2021, , 191-201.	1.0	4
54	Lung Ultrasound Segmentation and Adaptation Between COVID-19 and Community-Acquired Pneumonia. Lecture Notes in Computer Science, 2021, , 45-53.	1.0	4

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55	Prostate Motion Modelling Using Biomechanically-Trained Deep Neural Networks on Unstructured Nodes. Lecture Notes in Computer Science, 2020, , 650-659.	1.0	4
56	Task model-specific operator skill assessment in routine fetal ultrasound scanning. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 1437-1444.	1.7	4
57	Surface-based prostate registration with biomechanical regularization. , 2013, , .		2
58	Hybrid Decision Forests for Prostate Segmentation in Multi-channel MR Images. , 2014, , .		2
59	Image Registration. , 2020, , 1-8.		2
60	Deep hashing for global registration of untracked 2D laparoscopic ultrasound to CT. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 1461-1468.	1.7	2
61	Morphological Change Forecasting For Prostate Glands Using Feature-Based Registration And Kernel Density Extrapolation. , 2021, , .		1
62	Applications of Statistical Deformation Model. , 2017, , 301-327.		0
63	Image Registration. , 2021, , 632-639.		0
64	Technical note: automatic segmentation method of pelvic floor levator hiatus in ultrasound using a self-normalising neural network. , 2018, , .		0
65	An unsupervised learning-based shear wave tracking method for ultrasound elastography. , 2022, , .		0
66	Imaging features for the prediction of clinical endpoints in chronic liver disease: a scoping review protocol. BMJ Open, 2022, 12, e053204.	0.8	0
67	Cross-Modality Image Registration Using a Training-Time Privileged Third Modality. IEEE Transactions on Medical Imaging, 2022, 41, 3421-3431.	5.4	0