Dean C Barratt

List of Publications by Year
in descending order

45 papers	2,447 citations	394421 19 h-index	315739 38 g-index
46 all docs	46 docs citations	46 times ranked	3540 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.	8.9	436
2	NiftyNet: a deep-learning platform for medical imaging. Computer Methods and Programs in Biomedicine, 2018, 158, 113-122.	4.7	407
3	Weakly-supervised convolutional neural networks for multimodal image registration. Medical Image Analysis, 2018, 49, 1-13.	11.6	280
4	Focal Therapy: Patients, Interventions, and Outcomesâ€"A Report from a Consensus Meeting. European Urology, 2015, 67, 771-777.	1.9	206
5	Instantiation and registration of statistical shape models of the femur and pelvis using 3D ultrasound imaging. Medical Image Analysis, 2008, 12, 358-374.	11.6	135
6	The PICTURE study: diagnostic accuracy of multiparametric MRI in men requiring a repeat prostate biopsy. British Journal of Cancer, 2017, 116, 1159-1165.	6.4	90
7	The Accuracy of Different Biopsy Strategies for the Detection of Clinically Important Prostate Cancer: A Computer Simulation. Journal of Urology, 2012, 188, 974-980.	0.4	84
8	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.	2.5	79
9	Label-driven weakly-supervised learning for multimodal deformarle image registration. , 2018, , .		67
10	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.	1.9	67
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.	1.9	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.	1.8	50
13	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.	11.6	45
14	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.	0.4	38
15	Inter-site Variability in Prostate Segmentation Accuracy Using Deep Learning. Lecture Notes in Computer Science, 2018, , 506-514.	1.3	37
16	Population-based prediction of subject-specific prostate deformation for MR-to-ultrasound image registration. Medical Image Analysis, 2015, 26, 332-344.	11.6	33
17	Locally rigid, vessel-based registration for laparoscopic liver surgery. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1951-1961.	2.8	32
18	A hybrid patient-specific biomechanical model based image registration method for the motion estimation of lungs. Medical Image Analysis, 2017, 39, 87-100.	11.6	32

#	ARTICLE	IF	CITATIONS
19	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.	1.3	28
20	Integration of spatial information in convolutional neural networks for automatic segmentation of intraoperative transrectal ultrasound images. Journal of Medical Imaging, 2018, 6, 1.	1.5	23
21	Automatic segmentation method of pelvic floor levator hiatus in ultrasound using a self-normalizing neural network. Journal of Medical Imaging, 2018, 5, 1.	1.5	19
22	DeepReg: a deep learning toolkit for medical image registration. Journal of Open Source Software, 2020, 5, 2705.	4.6	19
23	Image quality assessment for machine learning tasks using meta-reinforcement learning. Medical Image Analysis, 2022, 78, 102427.	11.6	19
24	Biomechanical modeling constrained surface€based image registration for prostate MR guided TRUS biopsy. Medical Physics, 2015, 42, 2470-2481.	3.0	18
25	Fully automated prostate magnetic resonance imaging and transrectal ultrasound fusion via a probabilistic registration metric. , 2013, 8671, .		15
26	Real-time multimodal image registration with partial intraoperative point-set data. Medical Image Analysis, 2021, 74, 102231.	11.6	14
27	False Positive Multiparametric Magnetic Resonance Imaging Phenotypes in the Biopsy-naïve Prostate: Are They Distinct from Significant Cancer-associated Lesions? Lessons from PROMIS. European Urology, 2021, 79, 20-29.	1.9	13
28	Multiattribute probabilistic prostate elastic registration (MAPPER): Application to fusion of ultrasound and magnetic resonance imaging. Medical Physics, 2015, 42, 1153-1163.	3.0	12
29	Designing image segmentation studies: Statistical power, sample size and reference standard quality. Medical Image Analysis, 2017, 42, 44-59.	11.6	12
30	Prostate Radiofrequency Focal Ablation (ProRAFT) Trial: A Prospective Development Study Evaluating a Bipolar Radiofrequency Device to Treat Prostate Cancer. Journal of Urology, 2021, 205, 1090-1099.	0.4	12
31	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.	3.9	10
32	Immunohistochemical biomarker validation in highly selective needle biopsy microarrays derived from mpMRI€characterized prostates. Prostate, 2018, 78, 1229-1237.	2.3	9
33	Voice-Assisted Image Labeling for Endoscopic Ultrasound Classification Using Neural Networks. IEEE Transactions on Medical Imaging, 2022, 41, 1311-1319.	8.9	9
34	Conditional Segmentation in Lieu of Image Registration. Lecture Notes in Computer Science, 2019, , 401-409.	1.3	8
35	Technical Note: Error metrics for estimating the accuracy of needle/instrument placement during transperineal magnetic resonance/ultrasound€guided prostate interventions. Medical Physics, 2018, 45, 1408-1414.	3.0	7
36	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.	2.8	6

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37	Assisted Probe Positioning for Ultrasound Guided Radiotherapy Using Image Sequence Classification. Lecture Notes in Computer Science, 2020, , 544-552.	1.3	5
38	Longitudinal Image Registration with Temporal-Order and Subject-Specificity Discrimination. Lecture Notes in Computer Science, 2020, , 243-252.	1.3	5
39	Adaptable Image Quality Assessment Using Meta-Reinforcement Learning of Task Amenability. Lecture Notes in Computer Science, 2021, , 191-201.	1.3	4
40	Self-Calibrating Ultrasound-to-CT Bone Registration. Lecture Notes in Computer Science, 2005, 8, 605-612.	1.3	4
41	Study on liver blood vessel movement during breathing cycle. , 2013, , .		2
42	Morphological Change Forecasting For Prostate Glands Using Feature-Based Registration And Kernel Density Extrapolation. , 2021, , .		1
43	Information processing in computer-assisted interventions: 4th international conference, 2013. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 755-757.	2.8	0
44	Imaging features for the prediction of clinical endpoints in chronic liver disease: a scoping review protocol. BMJ Open, 2022, 12, e053204.	1.9	0
45	Cross-Modality Image Registration Using a Training-Time Privileged Third Modality. IEEE Transactions on Medical Imaging, 2022, 41, 3421-3431.	8.9	0