Henkjan J Huisman

List of Publications by Year
in descending order

100 papers	7,683 citations	71061 41 h-index	49868 87 g-index
100 all docs	100 docs citations	100 times ranked	5820 citing authors

#	Article	IF	Citations
1	Deep learningâ€“assisted prostate cancer detection on bi-parametric MRI: minimum training data size requirements and effect of prior knowledge. European Radiology, 2022, 32, 2224-2234.	2.3	48
2	Fully Automatic Deep Learning Framework for Pancreatic Ductal Adenocarcinoma Detection on Computed Tomography. Cancers, 2022, 14, 376.	1.7	30
3	Accuracy of fractal analysis and PI-RADS assessment of prostate magnetic resonance imaging for prediction of cancer grade groups: a clinical validation study. European Radiology, 2022, 32, 2372-2383.	2.3	3
4	A deep learning masked segmentation alternative to manual segmentation in biparametric MRI prostate cancer radiomics. European Radiology, 2022, 32, 6526-6535.	2.3	11
5	FEW-SHOT Image Segmentation for Cross-Institution Male Pelvic Organs Using Registration-Assisted Prototypical Learning. , 2022, , .		4
6	The Medical Segmentation Decathlon. Nature Communications, 2022, 13, .	5.8	252
7	Automated Assessment of COVID-19 Reporting and Data System and Chest CT Severity Scores in Patients Suspected of Having COVID-19 Using Artificial Intelligence. Radiology, 2021, 298, E18-E28.	3.6	116
8	Multi-Modal Siamese Network for Diagnostically Similar Lesion Retrieval in Prostate MRI. IEEE Transactions on Medical Imaging, 2021, 40, 986-995.	5.4	22
9	A Novel Deep Learning Based Computer-Aided Diagnosis System Improves the Accuracy and Efficiency of Radiologists in Reading Biparametric Magnetic Resonance Images of the Prostate. Investigative Radiology, 2021, 56, 605-613.	3.5	49
10	ESUR/ESUI position paper: developing artificial intelligence for precision diagnosis of prostate cancer using magnetic resonance imaging. European Radiology, 2021, 31, 9567-9578.	2.3	34
11	Artificial Intelligence Based Algorithms for Prostate Cancer Classification and Detection on Magnetic Resonance Imaging: A Narrative Review. Diagnostics, 2021, 11, 959.	1.3	43
12	Detection and PI-RADS classification of focal lesions in prostate MRI: Performance comparison between a deep learning-based algorithm (DLA) and radiologists with various levels of experience. European Journal of Radiology, 2021, 142, 109894.	1.2	20
13	The Key Role of Patient Involvement in the Development of Core Outcome Sets in Prostate Cancer. European Urology Focus, 2021, 7, 943-946.	1.6	6
14	End-to-end prostate cancer detection in bpMRI via 3D CNNs: Effects of attention mechanisms, clinical priori and decoupled false positive reduction. Medical Image Analysis, 2021, 73, 102155.	7.0	74
15	Single-center versus multi-center biparametric MRI radiomics approach for clinically significant peripheral zone prostate cancer. Insights Into Imaging, 2021, 12, 150.	1.6	15
16	Prediction of prostate cancer grade using fractal analysis of perfusion MRI: retrospective proof-of-principle study. European Radiology, 2021, , 1.	2.3	11
17	Multiparametric MRI and auto-fixed volume of interest-based radiomics signature for clinically significant peripheral zone prostate cancer. European Radiology, 2020, 30, 1313-1324.	2.3	40
18	False Positive Reduction Using Multiscale Contextual Features for Prostate Cancer Detection in Multi-Parametric MRI Scans. , 2020, , .		19

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19	Solid Science of AI Supporting Bladder Cancer CT Reading. Academic Radiology, 2019, 26, 1146-1147.	1.3	0
20	Supervised Uncertainty Quantification for Segmentation with Multiple Annotations. Lecture Notes in Computer Science, 2019, , 137-145.	1.0	36
21	Lymph node detection in MR Lymphography: false positive reduction using multi-view convolutional neural networks. PeerJ, 2019, 7, e8052.	0.9	12
22	Elastic Versus Rigid Image Registration in Magnetic Resonance Imagingâ€“transrectal Ultrasound Fusion Prostate Biopsy: A Systematic Review and Meta-analysis. European Urology Focus, 2018, 4, 219-227.	1.6	49
23	Inter-site Variability in Prostate Segmentation Accuracy Using Deep Learning. Lecture Notes in Computer Science, 2018, , 506-514.	1.0	37
24	PROSTATEx Challenges for computerized classification of prostate lesions from multiparametric magnetic resonance images. Journal of Medical Imaging, 2018, 5, 1.	0.8	98
25	Retrospective comparison of direct in-bore magnetic resonance imaging (MRI)-guided biopsy and fusion-guided biopsy in patients with MRI lesions which are likely or highly likely to be clinically significant prostate cancer. World Journal of Urology, 2017, 35, 1849-1855.	1.2	35
26	Designing image segmentation studies: Statistical power, sample size and reference standard quality. Medical Image Analysis, 2017, 42, 44-59.	7.0	12
27	Automated multistructure atlasâ€assisted detection of lymph nodes using pelvic MR lymphography in prostate cancer patients. Medical Physics, 2016, 43, 3132-3142.	1.6	2
28	Visibility of prostate cancer on transrectal ultrasound during fusion with multiparametric magnetic resonance imaging for biopsy. Clinical Imaging, 2016, 40, 745-750.	0.8	19
29	MR-targeted TRUS prostate biopsy using local reference augmentation: initial experience. International Urology and Nephrology, 2016, 48, 1037-1045.	0.6	6
30	Computer-extracted Features Can Distinguish Noncancerous Confounding Disease from Prostatic Adenocarcinoma at Multiparametric MR Imaging. Radiology, 2016, 278, 135-145.	3.6	43
31	Intranodal signal suppression in pelvic MR lymphography of prostate cancer patients: a quantitative comparison of ferumoxtran-10 and ferumoxytol. PeerJ, 2016, 4, e2471.	0.9	8
32	Biomechanical modeling constrained surfaceâ€based image registration for prostate MR guided TRUS biopsy. Medical Physics, 2015, 42, 2470-2481.	1.6	18
33	1.5-T multiparametric MRI using PI-RADS: a region by region analysis to localize the index-tumor of prostate cancer in patients undergoing prostatectomy. Acta Radiologica, 2015, 56, 500-511.	0.5	33
34	Clinical evaluation of a computer-aided diagnosis system for determining cancer aggressiveness in prostate MRI. European Radiology, 2015, 25, 3187-3199.	2.3	57
35	Statistical Power in Image Segmentation: Relating Sample Size to Reference Standard Quality. Lecture Notes in Computer Science, 2015, , 105-113.	1.0	0
36	Quantitative identification of magnetic resonance imaging features of prostate cancer response following laser ablation and radical prostatectomy. Journal of Medical Imaging, 2014, 1, 035001.	0.8	11

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37	Evaluation of prostate segmentation algorithms for MRI: The PROMISE12 challenge. Medical Image Analysis, 2014, 18, 359-373.	7.0	469
38	Computer-Aided Detection of Prostate Cancer in MRI. IEEE Transactions on Medical Imaging, 2014, 33, 1083-1092.	5.4	338
39	Correlation between dynamic contrast-enhanced MRI and quantitative histopathologic microvascular parameters in organ-confined prostate cancer. European Radiology, 2014, 24, 2597-2605.	2.3	38
40	MRI to X-ray mammography intensity-based registration with simultaneous optimisation of pose and biomechanical transformation parameters. Medical Image Analysis, 2014, 18, 674-683.	7.0	36
41	Simulated required accuracy of image registration tools for targeting high-grade cancer components with prostate biopsies. European Radiology, 2013, 23, 1401-1407.	2.3	41
42	Assessment of Prostate Cancer Aggressiveness Using Dynamic Contrast-enhanced Magnetic Resonance Imaging at 3 T. European Urology, 2013, 64, 448-455.	0.9	152
43	Chest wall segmentation in automated 3D breast ultrasound scans. Medical Image Analysis, 2013, 17, 1273-1281.	7.0	12
44	Surface-based prostate registration with biomechanical regularization. , 2013, , .		2
45	Prostate Cancer: Computer-aided Diagnosis with Multiparametric 3-T MR Imagingâ€"Effect on Observer Performance. Radiology, 2013, 266, 521-530.	3.6	103
46	MRI to X-ray mammography registration using a volume-preserving affine transformation. Medical Image Analysis, 2012, 16, 966-975.	7.0	26
47	Interpatient Variation in Normal Peripheral Zone Apparent Diffusion Coefficient: Effect on the Prediction of Prostate Cancer Aggressiveness. Radiology, 2012, 265, 260-266.	3.6	66
48	Computer aided analysis of breast MRI enhancement kinetics using mean shift c lustering and multifeature iterative region of interest selection. Journal of Magnetic Resonance Imaging, 2012, 36, 1104-1112.	1.9	5
49	Evaluation of a robotic technique for transrectal MRI-guided prostate biopsies. European Radiology, 2012, 22, 476-483.	2.3	60
50	Imaging vascular function for early stage clinical trials using dynamic contrast-enhanced magnetic resonance imaging. European Radiology, 2012, 22, 1451-1464.	2.3	138
51	Prospective Assessment of Prostate Cancer Aggressiveness Using 3-T Diffusion-Weighted Magnetic Resonance Imagingâ€"Guided Biopsies Versus a Systematic 10-Core Transrectal Ultrasound Prostate Biopsy Cohort. European Urology, 2012, 61, 177-184.	0.9	277
52	Computer-Aided Lesion Diagnosis in Automated 3-D Breast Ultrasound Using Coronal Spiculation. IEEE Transactions on Medical Imaging, 2012, 31, 1034-1042.	5.4	63
53	Intensity-Based MRI to X-ray Mammography Registration with an Integrated Fast Biomechanical Transformation. Lecture Notes in Computer Science, 2012, , 48-55.	1.0	5
54	A Pattern Recognition Approach to Zonal Segmentation of the Prostate on MRI. Lecture Notes in Computer Science, 2012, 15, 413-420.	1.0	50

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55	Prostate Cancer: Multiparametric MR Imaging for Detection, Localization, and Staging. Radiology, 2011, 261, 46-66.	3.6	618
56	Initial Results of 3-Dimensional 1H-Magnetic Resonance Spectroscopic Imaging in the Localization of Prostate Cancer at 3 Tesla. Investigative Radiology, 2011, 46, 301-306.	3.5	21
57	Automated 3â€dimensional segmentation of pelvic lymph nodes in magnetic resonance images. Medical Physics, 2011, 38, 6178-6187.	1.6	17
58	Comparison of enhancement characteristics between invasive lobular carcinoma and invasive ductal carcinoma. Journal of Magnetic Resonance Imaging, 2011, 34, 293-300.	1.9	19
59	Correlation Based 3-D Segmentation of the Left Ventricle in Pediatric Echocardiographic Images Using Radio-Frequency Data. Ultrasound in Medicine and Biology, 2011, 37, 1409-1420.	0.7	17
60	Relationship between Apparent Diffusion Coefficients at 3.0-T MR Imaging and Gleason Grade in Peripheral Zone Prostate Cancer. Radiology, 2011, 259, 453-461.	3.6	537
61	Classification of breast lesions in automated 3D breast ultrasound. Proceedings of SPIE, 2011, , .	0.8	5
62	Required Accuracy of MR-US Registration for Prostate Biopsies. Lecture Notes in Computer Science, 2011, , 92-99.	1.0	2
63	Automated classification of lymph nodes in USPIO-enhanced MR-images: a comparison of three segmentation methods. , 2010, , .		0
64	Automated segmentation of reference tissue for prostate cancer localization in dynamic contrast enhanced MRI. Proceedings of SPIE, 2010, , .	0.8	0
65	Feasibility of 3T Dynamic Contrast-Enhanced Magnetic Resonance-Guided Biopsy in Localizing Local Recurrence of Prostate Cancer After External Beam Radiation Therapy. Investigative Radiology, 2010, 45, 121-125.	3.5	56
66	Computer-assisted analysis of peripheral zone prostate lesions using T2-weighted and dynamic contrast enhanced T1-weighted MRI. Physics in Medicine and Biology, 2010, 55, 1719-1734.	1.6	93
67	Magnetic Resonance Imaging Guided Prostate Biopsy in Men With Repeat Negative Biopsies and Increased Prostate Specific Antigen. Journal of Urology, 2010, 183, 520-528.	0.2	344
68	Breast MRI intensity non-uniformity correction using mean-shift. Proceedings of SPIE, 2010, , .	0.8	3
69	Computer Aided Detection of Prostate Cancer Using T2, DWI and DCE MRI: Methods and Clinical Applications. Lecture Notes in Computer Science, 2010, , 4-14.	1.0	1
70	3D Cardiac Segmentation Using Temporal Correlation of Radio Frequency Ultrasound Data. Lecture Notes in Computer Science, 2009, 12, 927-934.	1.0	7
71	Computerized whole slide quantification shows increased microvascular density in pT2 prostate cancer as compared to normal prostate tissue. Prostate, 2009, 69, 62-69.	1.2	25
72	Integrating biological knowledge, novel imaging modalities, and modeling in breast cancer diagnosis. , 2009, , .		0

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73	Automated Calibration for Computerized Analysis of Prostate Lesions Using Pharmacokinetic Magnetic Resonance Images. Lecture Notes in Computer Science, 2009, 12, 836-843.	1.0	9
74	Contrast-enhanced magnetic resonance imaging of the breast: the value of pharmacokinetic parameters derived from fast dynamic imaging during initial enhancement in classifying lesions. European Radiology, 2008, 18, 1123-1133.	2.3	54
75	Computerized analysis of prostate lesions in the peripheral zone using dynamic contrast enhanced MRI. Medical Physics, 2008, 35, 888-899.	1.6	81
76	Combining T2-weighted with dynamic MR images for computerized classification of prostate lesions. , 2008, , .		7
77	Thirty-Two-Channel Coil 3T Magnetic Resonance-Guided Biopsies of Prostate Tumor Suspicious Regions Identified on Multimodality 3T Magnetic Resonance Imaging: Technique and Feasibility. Investigative Radiology, 2008, 43, 686-694.	3.5	104
78	Evaluation of Image Registration in PET/CT of the Liver and Recommendations for Optimized Imaging. Journal of Nuclear Medicine, 2007, 48, 910-919.	2.8	39
79	Prostate Cancer: Body-Array versus Endorectal Coil MR Imaging at 3 Tâ€"Comparison of Image Quality, Localization, and Staging Performance. Radiology, 2007, 244, 184-195.	3.6	295
80	Standardized Threshold Approach Using Three-Dimensional Proton Magnetic Resonance Spectroscopic Imaging in Prostate Cancer Localization of the Entire Prostate. Investigative Radiology, 2007, 42, 116-122.	3.5	70
81	Automated analysis of contrast enhancement in breast MRI lesions using mean shift clustering for ROI selection. Journal of Magnetic Resonance Imaging, 2007, 26, 606-614.	1.9	29
82	Segmentation of the Heart Muscle in 3-D Pediatric Echocardiographic Images. Ultrasound in Medicine and Biology, 2007, 33, 1453-1462.	0.7	36
83	Chestwall Segmentation in 3D Breast Ultrasound Using a Deformable Volume Model. , 2007, 20, 245-256.		2
84	Prostate Cancer Localization with Dynamic Contrast-enhanced MR Imaging and Proton MR Spectroscopic Imaging. Radiology, 2006, 241, 449-458.	3.6	506
85	Correction of an image size difference between positron emission tomography (PET) and computed tomography (CT) improves image fusion of dedicated PET and CT. Nuclear Medicine Communications, 2006, 27, 515-519.	0.5	7
86	IMRT boost dose planning on dominant intraprostatic lesions: Gold marker-based three-dimensional fusion of CT with dynamic contrast-enhanced and 1H-spectroscopic MRI. International Journal of Radiation Oncology Biology Physics, 2006, 65, 291-303.	0.4	168
87	Volumetric breast density estimation from full-field digital mammograms. IEEE Transactions on Medical Imaging, 2006, 25, 273-282.	5.4	208
88	The effect of an endorectal balloon and off-line correction on the interfraction systematic and random prostate position variations: A comparative study. International Journal of Radiation Oncology Biology Physics, 2005, 61, 278-288.	0.4	95
89	Sliced alternating DICOM series: convenient visualisation of image fusion on PACS. European Journal of Nuclear Medicine and Molecular Imaging, 2005, 32, 247-248.	3.3	5
90	Staging Prostate Cancer with Dynamic Contrast-enhanced Endorectal MR Imaging prior to Radical Prostatectomy: Experienced versus Less Experienced Readers. Radiology, 2005, 237, 541-549.	3.6	223

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91	Prostate Cancer: Precision of Integrating Functional MR Imaging with Radiation Therapy Treatment by Using Fiducial Gold Markers. Radiology, 2005, 236, 311-317.	3.6	58
92	Initial Experience of 3 Tesla Endorectal Coil Magnetic Resonance Imaging and 1H-Spectroscopic Imaging of the Prostate. Investigative Radiology, 2004, 39, 671-680.	3.5	148
93	Clinical validation of the normalized mutual information method for registration of CT and MR images in radiotherapy of brain tumors. Journal of Applied Clinical Medical Physics, 2004, 5, 66-79.	0.8	27
94	Discrimination of Prostate Cancer from Normal Peripheral Zone and Central Gland Tissue by Using Dynamic Contrast-enhanced MR Imaging. Radiology, 2003, 229, 248-254.	3.6	375
95	Accurate estimation of pharmacokinetic contrast-enhanced dynamic MRI parameters of the prostate. Journal of Magnetic Resonance Imaging, 2001, 13, 607-614.	1.9	106
96	<title>Accurate estimation of contrast agent dynamics in fast contrast-enhanced MRI</title>. , 2000, , .		0
97	Quantitative ultrasonic analysis of liver metastases. Ultrasound in Medicine and Biology, 1998, 24, 67-77.	0.7	20
98	Adaptive Texture Feature Extraction with Application to Ultrasonic Image Analysis. Ultrasonic Imaging, 1998, 20, 132-148.	1.4	18
99	Precision and accuracy of acoustospectrographic parameters. Ultrasound in Medicine and Biology, 1996, 22, 855-871.	0.7	55
100	Fast Scan Conversion Algorithms for Displaying Ultrasound Sector Images. Ultrasonic Imaging, 1994, 16, 87-108.	1.4	19