

Mirabela Rusu

List of Publications by Year in descending order

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43
papers

4,176
citations

471509

17
h-index

395702

33
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45
all docs

45
docs citations

45
times ranked

7643
citing authors

#	ARTICLE	IF	CITATIONS
1	A Mammalian microRNA Expression Atlas Based on Small RNA Library Sequencing. <i>Cell</i> , 2007, 129, 1401-1414.	28.9	3,390
2	Radiomics Analysis on FLT-PET/MRI for Characterization of Early Treatment Response in Renal Cell Carcinoma: A Proof-of-Concept Study. <i>Translational Oncology</i> , 2016, 9, 155-162.	3.7	94
3	Using Sculptor and Situs for simultaneous assembly of atomic components into low-resolution shapes. <i>Journal of Structural Biology</i> , 2011, 173, 428-435.	2.8	75
4	Evolutionary bidirectional expansion for the tracing of alpha helices in cryo-electron microscopy reconstructions. <i>Journal of Structural Biology</i> , 2012, 177, 410-419.	2.8	48
5	Automated tracing of filaments in 3D electron tomography reconstructions using Sculptor and Situs. <i>Journal of Structural Biology</i> , 2012, 178, 121-128.	2.8	47
6	ProsRegNet: A deep learning framework for registration of MRI and histopathology images of the prostate. <i>Medical Image Analysis</i> , 2021, 68, 101919.	11.6	46
7	An Assembly Model of Rift Valley Fever Virus. <i>Frontiers in Microbiology</i> , 2012, 3, 254.	3.5	32
8	Registration of presurgical MRI and histopathology images from radical prostatectomy via RAPSODI. <i>Medical Physics</i> , 2020, 47, 4177-4188.	3.0	28
9	Biomolecular pleiomorphism probed by spatial interpolation of coarse models. <i>Bioinformatics</i> , 2008, 24, 2460-2466.	4.1	27
10	Identifying in vivo DCE MRI markers associated with microvessel architecture and gleason grades of prostate cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 149-158.	3.4	27
11	Automated detection of aggressive and indolent prostate cancer on magnetic resonance imaging. <i>Medical Physics</i> , 2021, 48, 2960-2972.	3.0	27
12	3D Registration of pre-surgical prostate MRI and histopathology images via super-resolution volume reconstruction. <i>Medical Image Analysis</i> , 2021, 69, 101957.	11.6	26
13	Multiscale, multimodal analysis of tumor heterogeneity in IDH1 mutant vs wild-type diffuse gliomas. <i>PLoS ONE</i> , 2019, 14, e0219724.	2.5	25
14	Selective identification and localization of indolent and aggressive prostate cancers via CorrSigNIA: an MRI-pathology correlation and deep learning framework. <i>Medical Image Analysis</i> , 2022, 75, 102288.	11.6	25
15	Co-registration of pre-operative CT with ex vivo surgically excised ground glass nodules to define spatial extent of invasive adenocarcinoma on in vivo imaging: a proof-of-concept study. <i>European Radiology</i> , 2017, 27, 4209-4217.	4.5	20
16	An Application of Generative Adversarial Networks for Super Resolution Medical Imaging. , 2018, , .		19
17	Image quality assessment for machine learning tasks using meta-reinforcement learning. <i>Medical Image Analysis</i> , 2022, 78, 102427.	11.6	19
18	Co-Registration of ex vivo Surgical Histopathology and in vivo T2 weighted MRI of the Prostate via multi-scale spectral embedding representation. <i>Scientific Reports</i> , 2017, 7, 8717.	3.3	18

#	ARTICLE	IF	CITATIONS
19	Identifying quantitative in vivo multi-parametric MRI features for treatment related changes after laser interstitial thermal therapy of prostate cancer. <i>Neurocomputing</i> , 2014, 144, 13-23.	5.9	17
20	Evolutionary tabu search strategies for the simultaneous registration of multiple atomic structures in cryo-EM reconstructions. <i>Journal of Structural Biology</i> , 2010, 170, 164-171.	2.8	16
21	Deep Learning Improves Speed and Accuracy of Prostate Gland Segmentations on Magnetic Resonance Imaging for Targeted Biopsy. <i>Journal of Urology</i> , 2021, 206, 604-612.	0.4	16
22	Framework for 3D histologic reconstruction and fusion with in vivo MRI: Preliminary results of characterizing pulmonary inflammation in a mouse model. <i>Medical Physics</i> , 2015, 42, 4822-4832.	3.0	14
23	Prostate shapes on pre-treatment MRI between prostate cancer patients who do and do not undergo biochemical recurrence are different: Preliminary Findings. <i>Scientific Reports</i> , 2017, 7, 15829.	3.3	11
24	Developing a denoising filter for electron microscopy and tomography data in the cloud. <i>Biophysical Reviews</i> , 2012, 4, 223-229.	3.2	10
25	Prostatome: A combined anatomical and disease based MRI atlas of the prostate. <i>Medical Physics</i> , 2014, 41, 072301.	3.0	10
26	Computational imaging reveals shape differences between normal and malignant prostates on MRI. <i>Scientific Reports</i> , 2017, 7, 41261.	3.3	10
27	CorrSigNet: Learning CORRelated Prostate Cancer SIGNatures from Radiology and Pathology Images for Improved Computer Aided Diagnosis. <i>Lecture Notes in Computer Science</i> , 2020, , 315-325.	1.3	10
28	Bridging the gap between prostate radiology and pathology through machine learning. <i>Medical Physics</i> , 2022, 49, 5160-5181.	3.0	10
29	Geodesic density regression for correcting 4DCT pulmonary respiratory motion artifacts. <i>Medical Image Analysis</i> , 2021, 72, 102140.	11.6	8
30	AutoStitcher: An Automated Program for Efficient and Robust Reconstruction of Digitized Whole Histological Sections from Tissue Fragments. <i>Scientific Reports</i> , 2016, 6, 29906.	3.3	7
31	Weakly Supervised Registration of Prostate MRI and Histopathology Images. <i>Lecture Notes in Computer Science</i> , 2021, , 98-107.	1.3	7
32	Computational Detection of Extraprostatic Extension of Prostate Cancer on Multiparametric MRI Using Deep Learning. <i>Cancers</i> , 2022, 14, 2821.	3.7	7
33	Statistical 3D prostate imaging atlas construction via anatomically constrained registration. , 2013, 8669, .		5
34	Anisotropic smoothing regularization (AnSR) in Thirion's Demons registration evaluates brain MRI tissue changes post-laser ablation. , 2013, 2013, 4006-9.		5
35	Adaptable Image Quality Assessment Using Meta-Reinforcement Learning of Task Amenability. <i>Lecture Notes in Computer Science</i> , 2021, , 191-201.	1.3	4
36	Framework for the co-registration of MRI and histology images in prostate cancer patients with radical prostatectomy. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
37	Intensity normalization of prostate MRIs using conditional generative adversarial networks for cancer detection. , 2021, , .		3
38	Clinically significant prostate cancer detection on MRI with self-supervised learning using image context restoration. , 2021, , .		2
39	ProGNet: prostate gland segmentation on MRI with deep learning. , 2021, , .		2
40	Spectral embedding-based registration (SERg) for multimodal fusion of prostate histology and MRI. , 2014, , .		1
41	Detecting invasive breast carcinoma on dynamic contrast-enhanced MRI. , 2021, , .		1
42	Spatial integration of radiology and pathology images to characterize breast cancer aggressiveness on pre-surgical MRI. , 2019, , .		1
43	VITA - An Interactive 3-D Visualization System to Enhance Student Understanding of Mathematical Concepts in Medical Decision-Making. , 2008, , .		0