

Martin Urschler

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

3,335
citations

236612

25
h-index

168136

53
g-index

75
all docs

75
docs citations

75
times ranked

4104
citing authors

#	ARTICLE	IF	CITATIONS
1	Anatomy-Aware Inference of the 3D Standing Spine Posture from 2D Radiographs. Tomography, 2022, 8, 479-496.	0.8	2
2	Automated pneumothorax triaging in chest X-rays in the New Zealand population using deep learning algorithms. Journal of Medical Imaging and Radiation Oncology, 2022, 66, 1035-1043.	0.9	12
3	Bone age estimation with the Greulich-Pyle atlas using 3T MR images of hand and wrist. Forensic Science International, 2021, 319, 110654.	1.3	19
4	A Framework for the generation of digital twins of cardiac electrophysiology from clinical 12-leads ECGs. Medical Image Analysis, 2021, 71, 102080.	7.0	72
5	VerSe: A Vertebrae labelling and segmentation benchmark for multi-detector CT images. Medical Image Analysis, 2021, 73, 102166.	7.0	112
6	Curation of the CANDID-PTX Dataset with Free-Text Reports. Radiology: Artificial Intelligence, 2021, 3, e210136.	3.0	5
7	SymbioLCD: Ensemble-Based Loop Closure Detection using CNN-Extracted Objects and Visual Bag-of-Words. , 2021, , .		5
8	The four-minute approach revisited: accelerating MRI-based multi-factorial age estimation. International Journal of Legal Medicine, 2020, 134, 1475-1485.	1.2	9
9	Uncertainty Estimation in Landmark Localization Based on Gaussian Heatmaps. Lecture Notes in Computer Science, 2020, , 42-51.	1.0	2
10	Coarse to Fine Vertebrae Localization and Segmentation with SpatialConfiguration-Net and U-Net. , 2020, , .		41
11	Automated age estimation from MRI volumes of the hand. Medical Image Analysis, 2019, 58, 101538.	7.0	44
12	Evaluation of algorithms for Multi-Modality Whole Heart Segmentation: An open-access grand challenge. Medical Image Analysis, 2019, 58, 101537.	7.0	180
13	Segmenting and tracking cell instances with cosine embeddings and recurrent hourglass networks. Medical Image Analysis, 2019, 57, 106-119.	7.0	42
14	Integrating spatial configuration into heatmap regression based CNNs for landmark localization. Medical Image Analysis, 2019, 54, 207-219.	7.0	191
15	Quantitative CT-derived vessel metrics in idiopathic pulmonary fibrosis: A structure-function study. Respirology, 2019, 24, 445-452.	1.3	17
16	Evaluating Spatial Configuration Constrained CNNs for Localizing Facial and Body Pose Landmarks. , 2019, , .		0
17	Automatic Age Estimation and Majority Age Classification From Multi-Factorial MRI Data. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1392-1403.	3.9	45
18	Matwo-CapsNet: A Multi-label Semantic Segmentation Capsules Network. Lecture Notes in Computer Science, 2019, , 664-672.	1.0	17

#	ARTICLE	IF	CITATIONS
19	Reducing acquisition time for MRI-based forensic age estimation. Scientific Reports, 2018, 8, 2063.	1.6	14
20	Integrated computer-aided forensic case analysis, presentation, and documentation based on multimodal 3D data. Forensic Science International, 2018, 287, 12-24.	1.3	22
21	Integrating geometric configuration and appearance information into a unified framework for anatomical landmark localization. Medical Image Analysis, 2018, 43, 23-36.	7.0	55
22	Sparse-View CT Reconstruction Using Wasserstein GANs. Lecture Notes in Computer Science, 2018, , 75-82.	1.0	13
23	Instance Segmentation and Tracking with Cosine Embeddings and Recurrent Hourglass Networks. Lecture Notes in Computer Science, 2018, , 3-11.	1.0	46
24	Healthy Lung Vessel Morphology Derived From Thoracic Computed Tomography. Frontiers in Physiology, 2018, 9, 346.	1.3	13
25	Multi-label Whole Heart Segmentation Using CNNs and Anatomical Label Configurations. Lecture Notes in Computer Science, 2018, , 190-198.	1.0	59
26	Pulmonary Lobe Segmentation in CT Images using Alpha-Expansion. , 2018, , .		5
27	Detection and volume estimation of artificial hematomas in the subcutaneous fatty tissue: comparison of different MR sequences at 3.0 T. Forensic Science, Medicine, and Pathology, 2017, 13, 135-144.	0.6	3
28	Forensic age estimation by morphometric analysis of the manubrium from 3D MR images. Forensic Science International, 2017, 277, 21-29.	1.3	15
29	Multi-factorial Age Estimation from Skeletal and Dental MRI Volumes. Lecture Notes in Computer Science, 2017, , 61-69.	1.0	12
30	Evaluation and comparison of 3D intervertebral disc localization and segmentation methods for 3D T2 MR data: A grand challenge. Medical Image Analysis, 2017, 35, 327-344.	7.0	59
31	Gland segmentation in colon histology images: The glas challenge contest. Medical Image Analysis, 2017, 35, 489-502.	7.0	516
32	Segmentation and classification of colon glands with deep convolutional neural networks and total variation regularization. PeerJ, 2017, 5, e3874.	0.9	97
33	Applicability of Greulichâ€Pyle and Tannerâ€Whitehouse grading methods to MRI when assessing hand bone age in forensic age estimation: A pilot study. Forensic Science International, 2016, 266, 281-288.	1.3	32
34	A multi-center milestone study of clinical vertebral CT segmentation. Computerized Medical Imaging and Graphics, 2016, 49, 16-28.	3.5	104
35	Automated integer programming based separation of arteries and veins from thoracic CT images. Medical Image Analysis, 2016, 34, 109-122.	7.0	35
36	From individual hand bone age estimates to fully automated age estimation via learning-based information fusion. , 2016, , .		14

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37	Automatic localization of locally similar structures based on the scale-widening random regression forest. , 2016, , .		2
38	Optimizing the 3D-reconstruction technique for serial block-face scanning electron microscopy. Journal of Neuroscience Methods, 2016, 264, 16-24.	1.3	8
39	Automated Age Estimation from Hand MRI Volumes Using Deep Learning. Lecture Notes in Computer Science, 2016, , 194-202.	1.0	15
40	From Local to Global Random Regression Forests: Exploring Anatomical Landmark Localization. Lecture Notes in Computer Science, 2016, , 221-229.	1.0	13
41	Regressing Heatmaps for Multiple Landmark Localization Using CNNs. Lecture Notes in Computer Science, 2016, , 230-238.	1.0	144
42	Automatic Intervertebral Disc Localization and Segmentation in 3D MR Images Based on Regression Forests and Active Contours. Lecture Notes in Computer Science, 2016, , 130-140.	1.0	0
43	Anatomical Landmark Detection in Medical Applications Driven by Synthetic Data. , 2015, , .		13
44	Dental age estimation of living persons: Comparison of MRI with OPG. Forensic Science International, 2015, 253, 76-80.	1.3	49
45	Assessment of fiducial markers to enable the co-registration of photographs and MRI data. Forensic Science International, 2015, 248, 148-153.	1.3	4
46	Vertebrae Segmentation in 3D CT Images Based on a Variational Framework. Lecture Notes in Computational Vision and Biomechanics, 2015, , 227-233.	0.5	16
47	What automated age estimation of hand and wrist MRI data tells us about skeletal maturation in male adolescents. Annals of Human Biology, 2015, 42, 358-367.	0.4	31
48	You Should Use Regression to Detect Cells. Lecture Notes in Computer Science, 2015, , 276-283.	1.0	74
49	Automatic Artery-Vein Separation from Thoracic CT Images Using Integer Programming. Lecture Notes in Computer Science, 2015, , 36-43.	1.0	1
50	Towards Automatic Bone Age Estimation from MRI: Localization of 3D Anatomical Landmarks. Lecture Notes in Computer Science, 2014, 17, 421-428.	1.0	31
51	Determination of legal majority age from 3D magnetic resonance images of the radius bone. , 2014, , .		0
52	Comparing algorithms for automated vessel segmentation in computed tomography scans of the lung: the VESSEL12 study. Medical Image Analysis, 2014, 18, 1217-1232.	7.0	131
53	Intuitive presentation of clinical forensic data using anonymous and person-specific 3D reference manikins. Forensic Science International, 2014, 241, 155-166.	1.3	22
54	Fully Automatic Bone Age Estimation from Left Hand MR Images. Lecture Notes in Computer Science, 2014, 17, 220-227.	1.0	18

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55	Quantification of Tortuosity and Fractal Dimension of the Lung Vessels in Pulmonary Hypertension Patients. PLoS ONE, 2014, 9, e87515.	1.1	83
56	Memory Efficient 3D Integral Volumes. , 2013, , .		4
57	Forensic-Case Analysis: From 3D Imaging to Interactive Visualization. IEEE Computer Graphics and Applications, 2012, 32, 79-87.	1.0	22
58	Learning Edge-Specific Kernel Functions For Pairwise Graph Matching. , 2012, , .		0
59	Highly Consistent Sequential Segmentation. Lecture Notes in Computer Science, 2011, , 48-58.	1.0	2
60	Evaluation of Registration Methods on Thoracic CT: The EMPIRE10 Challenge. IEEE Transactions on Medical Imaging, 2011, 30, 1901-1920.	5.4	363
61	Intensity-Based Congealing for Unsupervised Joint Image Alignment. , 2010, , .		6
62	Optical flow based deformable volume registration using a novel second-order regularization prior. Proceedings of SPIE, 2010, , .	0.8	0
63	Occlusion detection for ICAO compliant facial photographs. , 2010, , .		12
64	Efficient Robust Active Appearance Model Fitting. Communications in Computer and Information Science, 2010, , 229-241.	0.4	0
65	Saliency driven total variation segmentation. , 2009, , .		178
66	3D-MAM: 3D morphable appearance model for efficient fine head pose estimation from still images. , 2009, , .		21
67	Fast-Robust PCA. Lecture Notes in Computer Science, 2009, , 430-439.	1.0	15
68	Classifier fusion for robust ICAO compliant face analysis. , 2008, , .		2
69	A Duality Based Algorithm for TV-L 1-Optical-Flow Image Registration. , 2007, 10, 511-518.		51
70	A Framework for Comparison and Evaluation of Nonlinear Intra-Subject Image Registration Algorithms. The Insight Journal, 2007, , .	0.2	14
71	SIFT and Shape Context for Feature-Based Nonlinear Registration of Thoracic CT Images. Lecture Notes in Computer Science, 2006, , 73-84.	1.0	31
72	A New Registration/Visualization Paradigm for CT-Fluoroscopy Guided RF Liver Ablation. Lecture Notes in Computer Science, 2006, 9, 882-890.	1.0	7

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73	Automatic Point Landmark Matching for Regularizing Nonlinear Intensity Registration: Application to Thoracic CT Images. Lecture Notes in Computer Science, 2006, 9, 710-717.	1.0	12
74	Assessing breathing motion by shape matching of lung and diaphragm surfaces. , 2005, , .		8