

Martin Urschler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/379083/publications.pdf>

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	Gland segmentation in colon histology images: The glas challenge contest. Medical Image Analysis, 2017, 35, 489-502.	7.0	516
2	Evaluation of Registration Methods on Thoracic CT: The EMPIRE10 Challenge. IEEE Transactions on Medical Imaging, 2011, 30, 1901-1920.	5.4	363
3	Integrating spatial configuration into heatmap regression based CNNs for landmark localization. Medical Image Analysis, 2019, 54, 207-219.	7.0	191
4	Evaluation of algorithms for Multi-Modality Whole Heart Segmentation: An open-access grand challenge. Medical Image Analysis, 2019, 58, 101537.	7.0	180
5	Saliency driven total variation segmentation. , 2009, , .		178
6	Regressing Heatmaps for Multiple Landmark Localization Using CNNs. Lecture Notes in Computer Science, 2016, , 230-238.	1.0	144
7	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
8	VerSe: A Vertebrae labelling and segmentation benchmark for multi-detector CT images. Medical Image Analysis, 2021, 73, 102166.	7.0	112
9	A multi-center milestone study of clinical vertebral CT segmentation. Computerized Medical Imaging and Graphics, 2016, 49, 16-28.	3.5	104
10	Segmentation and classification of colon glands with deep convolutional neural networks and total variation regularization. PeerJ, 2017, 5, e3874.	0.9	97
11	Quantification of Tortuosity and Fractal Dimension of the Lung Vessels in Pulmonary Hypertension Patients. PLoS ONE, 2014, 9, e87515.	1.1	83
12	You Should Use Regression to Detect Cells. Lecture Notes in Computer Science, 2015, , 276-283.	1.0	74
13	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
14	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
15	Multi-label Whole Heart Segmentation Using CNNs and Anatomical Label Configurations. Lecture Notes in Computer Science, 2018, , 190-198.	1.0	59
16	Integrating geometric configuration and appearance information into a unified framework for anatomical landmark localization. Medical Image Analysis, 2018, 43, 23-36.	7.0	55
17	A Duality Based Algorithm for TV-L 1-Optical-Flow Image Registration. , 2007, 10, 511-518.		51
18	Dental age estimation of living persons: Comparison of MRI with OPG. Forensic Science International, 2015, 253, 76-80.	1.3	49

#	ARTICLE	IF	CITATIONS
19	Instance Segmentation and Tracking with Cosine Embeddings and Recurrent Hourglass Networks. Lecture Notes in Computer Science, 2018, , 3-11.	1.0	46
20	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
21	Automated age estimation from MRI volumes of the hand. Medical Image Analysis, 2019, 58, 101538.	7.0	44
22	Segmenting and tracking cell instances with cosine embeddings and recurrent hourglass networks. Medical Image Analysis, 2019, 57, 106-119.	7.0	42
23	Coarse to Fine Vertebrae Localization and Segmentation with SpatialConfiguration-Net and U-Net. , 2020, , .		41
24	Automated integer programming based separation of arteries and veins from thoracic CT images. Medical Image Analysis, 2016, 34, 109-122.	7.0	35
25	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
26	SIFT and Shape Context for Feature-Based Nonlinear Registration of Thoracic CT Images. Lecture Notes in Computer Science, 2006, , 73-84.	1.0	31
27	Towards Automatic Bone Age Estimation from MRI: Localization of 3D Anatomical Landmarks. Lecture Notes in Computer Science, 2014, 17, 421-428.	1.0	31
28	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
29	Forensic-Case Analysis: From 3D Imaging to Interactive Visualization. IEEE Computer Graphics and Applications, 2012, 32, 79-87.	1.0	22
30	Intuitive presentation of clinical forensic data using anonymous and person-specific 3D reference manikins. Forensic Science International, 2014, 241, 155-166.	1.3	22
31	Integrated computer-aided forensic case analysis, presentation, and documentation based on multimodal 3D data. Forensic Science International, 2018, 287, 12-24.	1.3	22
32	3D-MAM: 3D morphable appearance model for efficient fine head pose estimation from still images. , 2009, , .		21
33	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
34	Fully Automatic Bone Age Estimation from Left Hand MR Images. Lecture Notes in Computer Science, 2014, 17, 220-227.	1.0	18
35	Quantitative CTâ€derived vessel metrics in idiopathic pulmonary fibrosis: A structureâ€function study. Respirology, 2019, 24, 445-452.	1.3	17
36	Matwo-CapsNet: A Multi-label Semantic Segmentation Capsules Network. Lecture Notes in Computer Science, 2019, , 664-672.	1.0	17

#	ARTICLE	IF	CITATIONS
37	Vertebrae Segmentation in 3D CT Images Based on a Variational Framework. Lecture Notes in Computational Vision and Biomechanics, 2015, , 227-233.	0.5	16
38	Forensic age estimation by morphometric analysis of the manubrium from 3D MR images. Forensic Science International, 2017, 277, 21-29.	1.3	15
39	Automated Age Estimation from Hand MRI Volumes Using Deep Learning. Lecture Notes in Computer Science, 2016, , 194-202.	1.0	15
40	Fast-Robust PCA. Lecture Notes in Computer Science, 2009, , 430-439.	1.0	15
41	From individual hand bone age estimates to fully automated age estimation via learning-based information fusion. , 2016, , .		14
42	Reducing acquisition time for MRI-based forensic age estimation. Scientific Reports, 2018, 8, 2063.	1.6	14
43	A Framework for Comparison and Evaluation of Nonlinear Intra-Subject Image Registration Algorithms. The Insight Journal, 2007, , .	0.2	14
44	Anatomical Landmark Detection in Medical Applications Driven by Synthetic Data. , 2015, , .		13
45	Sparse-View CT Reconstruction Using Wasserstein GANs. Lecture Notes in Computer Science, 2018, , 75-82.	1.0	13
46	Healthy Lung Vessel Morphology Derived From Thoracic Computed Tomography. Frontiers in Physiology, 2018, 9, 346.	1.3	13
47	From Local to Global Random Regression Forests: Exploring Anatomical Landmark Localization. Lecture Notes in Computer Science, 2016, , 221-229.	1.0	13
48	Occlusion detection for ICAO compliant facial photographs. , 2010, , .		12
49	Multi-factorial Age Estimation from Skeletal and Dental MRI Volumes. Lecture Notes in Computer Science, 2017, , 61-69.	1.0	12
50	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
51	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
52	The four-minute approach revisited: accelerating MRI-based multi-factorial age estimation. International Journal of Legal Medicine, 2020, 134, 1475-1485.	1.2	9
53	Assessing breathing motion by shape matching of lung and diaphragm surfaces. , 2005, , .		8
54	Optimizing the 3D-reconstruction technique for serial block-face scanning electron microscopy. Journal of Neuroscience Methods, 2016, 264, 16-24.	1.3	8

#	ARTICLE	IF	CITATIONS
55	A New Registration/Visualization Paradigm for CT-Fluoroscopy Guided RF Liver Ablation. Lecture Notes in Computer Science, 2006, 9, 882-890.	1.0	7
56	Intensity-Based Congealing for Unsupervised Joint Image Alignment. , 2010, , .		6
57	Pulmonary Lobe Segmentation in CT Images using Alpha-Expansion. , 2018, , .		5
58	Curation of the CANDID-PTX Dataset with Free-Text Reports. Radiology: Artificial Intelligence, 2021, 3, e210136.	3.0	5
59	SymbioLCD: Ensemble-Based Loop Closure Detection using CNN-Extracted Objects and Visual Bag-of-Words. , 2021, , .		5
60	Memory Efficient 3D Integral Volumes. , 2013, , .		4
61	Assessment of fiducial markers to enable the co-registration of photographs and MRI data. Forensic Science International, 2015, 248, 148-153.	1.3	4
62	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
63	Classifier fusion for robust ICAO compliant face analysis. , 2008, , .		2
64	Highly Consistent Sequential Segmentation. Lecture Notes in Computer Science, 2011, , 48-58.	1.0	2
65	Automatic localization of locally similar structures based on the scale-widening random regression forest. , 2016, , .		2
66	Uncertainty Estimation in Landmark Localization Based on Gaussian Heatmaps. Lecture Notes in Computer Science, 2020, , 42-51.	1.0	2
67	Anatomy-Aware Inference of the 3D Standing Spine Posture from 2D Radiographs. Tomography, 2022, 8, 479-496.	0.8	2
68	Automatic Artery-Vein Separation from Thoracic CT Images Using Integer Programming. Lecture Notes in Computer Science, 2015, , 36-43.	1.0	1
69	Optical flow based deformable volume registration using a novel second-order regularization prior. Proceedings of SPIE, 2010, , .	0.8	0
70	Determination of legal majority age from 3D magnetic resonance images of the radius bone. , 2014, , .		0
71	Evaluating Spatial Configuration Constrained CNNs for Localizing Facial and Body Pose Landmarks. , 2019, , .		0
72	Efficient Robust Active Appearance Model Fitting. Communications in Computer and Information Science, 2010, , 229-241.	0.4	0

#	ARTICLE	IF	CITATIONS
73	Learning Edge-Specific Kernel Functions For Pairwise Graph Matching. , 2012, , .		0
74	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