Stefan Wesarg

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Evaluation of segmentation methods on head and neck <scp>CT</scp> : Autoâ€segmentation challenge 2015. Medical Physics, 2017, 44, 2020-2036.	3.0	198
2	Investigation of the dependence of joint contact forces on musculotendon parameters using a codified workflow for image-based modelling. Journal of Biomechanics, 2018, 73, 108-118.	2.1	70
3	Dual-Energy CT–based Phantomless in Vivo Three-dimensional Bone Mineral Density Assessment of the Lumbar Spine. Radiology, 2014, 271, 778-784.	7.3	62
4	Fast automatic liver segmentation combining learned shape priors with observed shape deviation. , 2010, , .		48
5	Navigation-Based Needle Puncture of a Cadaver Using a Hybrid Tracking Navigational System. Investigative Radiology, 2006, 41, 713-720.	6.2	45
6	A Patient-Specific Foot Model for the Estimate of Ankle Joint Forces in Patients with Juvenile Idiopathic Arthritis. Annals of Biomedical Engineering, 2016, 44, 247-257.	2.5	41
7	Localizing Calcifications in Cardiac CT Data Sets Using a New Vessel Segmentation Approach. Journal of Digital Imaging, 2006, 19, 249-257.	2.9	39
8	Segmentation of vessels: the corkscrew algorithm. , 2004, 5370, 1609.		32
9	Quantitative dual-energy CT for phantomless evaluation of cancellous bone mineral density of the vertebral pedicle: correlation with pedicle screw pull-out strength. European Radiology, 2015, 25, 1714-1720.	4.5	31
10	Diagnostic accuracy of quantitative dual-energy CT-based volumetric bone mineral density assessment for the prediction of osteoporosis-associated fractures. European Radiology, 2022, 32, 3076-3084.	4.5	31
11	An image-based kinematic model of the tibiotalar and subtalar joints and its application to gait analysis in children with Juvenile Idiopathic Arthritis. Journal of Biomechanics, 2019, 85, 27-36.	2.1	27
12	Facilitating coronary artery evaluation in MDCT using a 3D automatic vessel segmentation tool. European Radiology, 2006, 16, 1789-1795.	4.5	21
13	Model-Based Pancreas Segmentation in Portal Venous Phase Contrast-Enhanced CT Images. Journal of Digital Imaging, 2013, 26, 1082-1090.	2.9	20
14	Accuracy of biopsy needle navigation using the Medarpa system—computed tomography reality superimposed on the site of intervention. European Radiology, 2005, 15, 2366-2374.	4.5	19
15	Articulated atlas for segmentation of the skeleton from head & neck CT datasets. , 2012, , .		16
16	Linking Joint Impairment and Gait Biomechanics in Patients with Juvenile Idiopathic Arthritis. Annals of Biomedical Engineering, 2019, 47, 2155-2167.	2.5	15
17	Accuracy and precision of volumetric bone mineral density assessment using dual-source dual-energy versus quantitative CT: a phantom study. European Radiology Experimental, 2021, 5, 43.	3.4	15
18	Application of Radial Ray Based Segmentation to Cervical Lymph Nodes in CT Images. IEEE Transactions on Medical Imaging, 2013, 32, 888-900.	8.9	14

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19	A novel robust kernel principal component analysis for nonlinear statistical shape modeling from erroneous data. Computerized Medical Imaging and Graphics, 2019, 77, 101638.	5.8	12
20	Impact of Intravenously Injected Contrast Agent on Bone Mineral Density Measurement in Dual-Source Dual-Energy CT. Academic Radiology, 2022, 29, 880-887.	2.5	9
21	Construction of groupwise consistent shape parameterizations by propagation. , 2010, , .		8
22	Simultaneous Segmentation and Correspondence Establishment for Statistical Shape Models. Lecture Notes in Computer Science, 2009, , 25-35.	1.3	7
23	COSMO - Coupled Shape Model for Radiation Therapy Planning of Head and Neck Cancer. Lecture Notes in Computer Science, 2014, , 25-32.	1.3	6
24	Accurate Physics-Based Registration for the Outcome Validation of Minimal Invasive Interventions and Open Liver Surgeries. IEEE Transactions on Biomedical Engineering, 2017, 64, 362-371.	4.2	5
25	Supporting the TECAB Grafting Through CT Based Analysis of Coronary Arteries. Lecture Notes in Computer Science, 2005, , 133-142.	1.3	2
26	Automatische Initialisierung von Formmodellen mittels modellbasierter Registrierung. Informatik Aktuell, 2011, , 69-73.	0.6	1
27	Intervention assessment tool for primary tumors in the liver. Current Directions in Biomedical Engineering, 2018, 4, 337-340.	0.4	Ο