Rainer Schubert

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Tackling the class imbalance problem of deep learning-based head and neck organ segmentation. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 2103-2111.	1.7	6
2	Training of head and neck segmentation networks with shape prior on small datasets. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1417-1425.	1.7	5
3	Multi-organ segmentation of the head and neck area: an efficient hierarchical neural networks approach. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 745-754.	1.7	42
4	Evaluation of segmentation methods on head and neck <scp>CT</scp> : Autoâ€segmentation challenge 2015. Medical Physics, 2017, 44, 2020-2036.	1.6	198
5	Model-based Vestibular Afferent Stimulation: Modular Workflow for Analyzing Stimulation Scenarios in Patient Specific and Statistical Vestibular Anatomy. Frontiers in Neuroscience, 2017, 11, 713.	1.4	12
6	Automatic segmentation of head and neck CT images for radiotherapy treatment planning using multiple atlases, statistical appearance models, and geodesic active contours. Medical Physics, 2014, 41, 051910.	1.6	109
7	Automated Quality Inspection of Microfluidic Chips Using Morphologic Techniques. Lecture Notes in Computer Science, 2013, , 508-519.	1.0	5
8	Femoral strength prediction using a 3D reconstruction method from Dual-energy X-ray Absorptiometry. , 2012, , .		1
9	Hip fracture discrimination from dual-energy X-ray absorptiometry by statistical model registration. Bone, 2012, 51, 896-901.	1.4	29
10	Hip fracture discrimination using 3D reconstructions from Dual-energy X-ray Absorptiometry. , 2011, , .		2
11	Whole vertebral bone segmentation method with a statistical intensity-shape model based approach. , 2011, , .		3
12	3-D Graph Cut Segmentation with Riemannian Metrics to Avoid the Shrinking Problem. Lecture Notes in Computer Science, 2011, 14, 554-561.	1.0	6
13	A Statistical Model of Shape and Bone Mineral Density Distribution of the Proximal Femur for Fracture Risk Assessment. Lecture Notes in Computer Science, 2011, 14, 393-400.	1.0	14
14	Texture Analysis, Bone Mineral Density, and Cortical Thickness of the Proximal Femur. Journal of Computer Assisted Tomography, 2010, 34, 949-957.	0.5	16
15	Analysis of the micro-migration of sliding hip screws by using point-based registration. International Journal of Computer Assisted Radiology and Surgery, 2010, 5, 455-460.	1.7	2
16	3D bone mineral density distribution and shape reconstruction of the proximal femur from a single simulated DXA image: an in vitro study. Proceedings of SPIE, 2010, , .	0.8	7
17	Assessment of the individual fracture risk of the proximal femur by using statistical appearance models. Medical Physics, 2010, 37, 2560-2571.	1.6	16
18	3D reconstruction of both shape and Bone Mineral Density distribution of the femur from DXA images. , 2010, , .		11

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19	Using a statistical appearance model to predict the fracture load of the proximal femur. Proceedings of SPIE, 2009, , .	0.8	6
20	Trabecular Bone Analysis in CT and X-Ray Images of the Proximal Femur for the Assessment of Local Bone Quality. IEEE Transactions on Medical Imaging, 2009, 28, 1560-1575.	5.4	20
21	Statistical model based analysis of bone mineral density of lumbar spine. International Journal of Computer Assisted Radiology and Surgery, 2009, 4, 239-243.	1.7	1
22	Development and testing of texture discriminators for the analysis of trabecular bone in proximal femur radiographs. Medical Physics, 2009, 36, 5089-5098.	1.6	31
23	Knowledge-based femur detection in conventional radiographs of the pelvis. Computers in Biology and Medicine, 2008, 38, 535-544.	3.9	12
24	Proximal femur segmentation in conventional pelvic x ray. Medical Physics, 2008, 35, 2463-2472.	1.6	9
25	3D inters-subject cardiac registration using 4D information. Proceedings of SPIE, 2008, , .	0.8	1
26	Comparison of Different Metrics for Appearance-Model-Based 2D/3D-registration with X-ray Images. Informatik Aktuell, 2008, , 122-126.	0.4	5
27	Prediction of Biomechanical Parameters of the Proximal Femur Using Statistical Appearance Models and Support Vector Regression. Lecture Notes in Computer Science, 2008, 11, 568-575.	1.0	7
28	4D Endocardial Segmentation Using Spatio-temporal Appearance Models and Level Sets. Informatik Aktuell, 2008, , 1-5.	0.4	0
29	Level Set Segmentation of Lumbar Vertebrae Using Appearance Models. Informatik Aktuell, 2008, , 46-50.	0.4	0
30	Assessment of femoral bone quality using co-occurrence matrices and adaptive regions of interest. , 2007, , .		4
31	A framework in prolog for computing structural relationships. Data and Knowledge Engineering, 2007, 62, 308-326.	2.1	0
32	3D image segmentation using combined shape-intensity prior models. International Journal of Computer Assisted Radiology and Surgery, 2007, 1, 341-350.	1.7	32
33	Quantification of the migration and deformation of abdominal aortic aneurysm stent grafts. , 2006, , .		5
34	A mathematical analysis of theories of parthood. Data and Knowledge Engineering, 2006, 59, 107-138.	2.1	15
35	Shape Discrimination of Healthy and Diseased Cardiac Ventricles using Medial Representation. International Journal of Computer Assisted Radiology and Surgery, 2006, 1, 33-38.	1.7	4
36	3D image segmentation by using statistical deformation models and level sets. International Journal of Computer Assisted Radiology and Surgery, 2006, 1, 123-135.	1.7	10

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37	Femur Detection in Radiographs Using Template-Based Registration. , 2006, , 111-115.		4
38	A software framework for preprocessing and level set segmentation of medical image data. , 2005, , .		8
39	Automatic 4D endocardium segmentation using hierarchical registration and model guided level set segmentation. International Congress Series, 2005, 1281, 212-217.	0.2	1
40	Spatio-temporal changes and migration of stent grafts after endovascular aortic aneurysm repair. International Congress Series, 2005, 1281, 393-397.	0.2	6
41	Modeling of the geometric variation and analysis of the right atrium and right ventricle motion of the human heart using PCA. International Congress Series, 2004, 1268, 1108-1113.	0.2	4
42	Analyzing inter-individual shape variations of the middle ear cavity by developing a common shape model based on medial representation. International Congress Series, 2004, 1268, 243-248.	0.2	0
43	A high-resolution model of the inner organs based on the visible muman data set. Journal of Visualization, 2002, 5, 212-212.	1.1	1
44	The Muscular Compliance of the Auditory Tube: A Model-Based Survey. Laryngoscope, 2002, 112, 1791-1795.	1.1	34
45	A virtual reality training system for pediatric sonography. International Congress Series, 2001, 1230, 483-487.	0.2	8
46	Creating a high-resolution spatial/symbolic model of the inner organs based on the Visible Human. Medical Image Analysis, 2001, 5, 221-228.	7.0	109
47	Exploring the Visible Human using the VOXEL-MAN framework. Computerized Medical Imaging and Graphics, 2000, 24, 127-132.	3.5	51
48	A Computerized Three-Dimensional Atlas of the Human Skull and Brain. , 1996, 14, 185-197.		48
49	A new representation of knowledge concerning human anatomy and function. Nature Medicine, 1995, 1, 506-511.	15.2	115
50	A New Method for Practicing Exploration, Dissection, and Simulation with a Complete Computerized Three-Dimensional Model of the Brain and Skull. Cells Tissues Organs, 1994, 150, 69-74.	1.3	14
51	<title>Intepretation of tomographic images using automatic atlas lookup</title> . , 1994, , .		12
52	"Intelligent volumesâ€i a new concept for representing spatial knowledge. Pattern Recognition Letters, 1994, 15, 519-526.	2.6	1
53	<title>Symbolic modeling of human anatomy for visualization and simulation</title> ., 1994, 2359, 412.		29

54 Shape-Based 3D Level Set Segmentation of the Proximal Femur in CT-Data. , 0, , 91-95.

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55	A Robust Semi-automatic Procedure for Motion Quantification of Aortic Stent Grafts Using Point Set Registration. , 0, , 216-220.		1