

Stefan Wesarg

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

794
citations

623574

14
h-index

677027

22
g-index

28
all docs

28
docs citations

28
times ranked

1100
citing authors

| # | 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. | 1.6 | 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. | 0.9 | 70 |
| 3 | Dual-Energy CTâ€based Phantomless in Vivo Three-dimensional Bone Mineral Density Assessment of the Lumbar Spine. Radiology, 2014, 271, 778-784. | 3.6 | 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. | 3.5 | 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. | 1.3 | 41 |
| 7 | Localizing Calcifications in Cardiac CT Data Sets Using a New Vessel Segmentation Approach. Journal of Digital Imaging, 2006, 19, 249-257. | 1.6 | 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. | 2.3 | 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. | 2.3 | 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. | 0.9 | 27 |
| 12 | Facilitating coronary artery evaluation in MDCT using a 3D automatic vessel segmentation tool. European Radiology, 2006, 16, 1789-1795. | 2.3 | 21 |
| 13 | Model-Based Pancreas Segmentation in Portal Venous Phase Contrast-Enhanced CT Images. Journal of Digital Imaging, 2013, 26, 1082-1090. | 1.6 | 20 |
| 14 | Accuracy of biopsy needle navigation using the Medarpa systemâ€computed tomography reality superimposed on the site of intervention. European Radiology, 2005, 15, 2366-2374. | 2.3 | 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. | 1.3 | 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. | 1.7 | 15 |
| 18 | Application of Radial Ray Based Segmentation to Cervical Lymph Nodes in CT Images. IEEE Transactions on Medical Imaging, 2013, 32, 888-900. | 5.4 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A novel robust kernel principal component analysis for nonlinear statistical shape modeling from erroneous data. <i>Computerized Medical Imaging and Graphics</i> , 2019, 77, 101638. | 3.5 | 12 |
| 20 | Impact of Intravenously Injected Contrast Agent on Bone Mineral Density Measurement in Dual-Source Dual-Energy CT. <i>Academic Radiology</i> , 2022, 29, 880-887. | 1.3 | 9 |
| 21 | Construction of groupwise consistent shape parameterizations by propagation. , 2010, , . | | 8 |
| 22 | Simultaneous Segmentation and Correspondence Establishment for Statistical Shape Models. <i>Lecture Notes in Computer Science</i> , 2009, , 25-35. | 1.0 | 7 |
| 23 | COSMO - Coupled Shape Model for Radiation Therapy Planning of Head and Neck Cancer. <i>Lecture Notes in Computer Science</i> , 2014, , 25-32. | 1.0 | 6 |
| 24 | Accurate Physics-Based Registration for the Outcome Validation of Minimal Invasive Interventions and Open Liver Surgeries. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 362-371. | 2.5 | 5 |
| 25 | Supporting the TECAB Grafting Through CT Based Analysis of Coronary Arteries. <i>Lecture Notes in Computer Science</i> , 2005, , 133-142. | 1.0 | 2 |
| 26 | Automatische Initialisierung von Formmodellen mittels modellbasierter Registrierung. <i>Informatik Aktuell</i> , 2011, , 69-73. | 0.4 | 1 |
| 27 | Intervention assessment tool for primary tumors in the liver. <i>Current Directions in Biomedical Engineering</i> , 2018, 4, 337-340. | 0.2 | 0 |