Rene Werner

List of Publications by Year in descending order

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318942 242451 2,565 104 23 47 citations h-index g-index papers 116 116 116 3585 citing authors docs citations times ranked all docs

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Artificial intelligence in GI endoscopy: stumbling blocks, gold standards and the role of endoscopy societies. Gut, 2022, 71, 451-454. | 6.1 | 10 |
| 2 | P2X4 and P2X7 are essential players in basal T cell activity and Ca ²⁺ signaling milliseconds after T cell activation. Science Advances, 2022, 8, eabl9770. | 4.7 | 20 |
| 3 | Evaluation of magnetic resonance imaging-based radiomics characteristics for differentiation of benign and malignant peripheral nerve sheath tumors in neurofibromatosis type 1. Neuro-Oncology, 2022, 24, 1790-1798. | 0.6 | 5 |
| 4 | PAIP 2019: Liver cancer segmentation challenge. Medical Image Analysis, 2021, 67, 101854. | 7.0 | 52 |
| 5 | Comparison of intelligent 4D CT sequence scanning and conventional spiral 4D CT: a first comprehensive phantom study. Physics in Medicine and Biology, 2021, 66, 015004. | 1.6 | 9 |
| 6 | HN1L/JPT2: A signaling protein that connects NAADP generation to Ca ²⁺ microdomain formation. Science Signaling, 2021, 14, . | 1.6 | 60 |
| 7 | Spatio-temporal feature learning with reservoir computing for T-cell segmentation in live-cell \$\$hbox {Ca}^{2+}\$\$ fluorescence microscopy. Scientific Reports, 2021, 11, 8233. | 1.6 | 5 |
| 8 | Deep Learning–Based Automated Thrombolysis in Cerebral Infarction Scoring: A Timely Proof-of-Principle Study. Stroke, 2021, 52, 3497-3504. | 1.0 | 8 |
| 9 | Time-Dependent Image Restoration of Low-SNR Live-Cell Ca2 Fluorescence Microscopy Data. International Journal of Molecular Sciences, 2021, 22, 11792. | 1.8 | 6 |
| 10 | First clinical evaluation of breathing controlled four-dimensional computed tomography imaging. Physics and Imaging in Radiation Oncology, 2021, 20, 56-61. | 1.2 | 8 |
| 11 | Dual NADPH oxidases DUOX1 and DUOX2 synthesize NAADP and are necessary for Ca ²⁺ signaling during T cell activation. Science Signaling, 2021, 14, eabe3800. | 1.6 | 28 |
| 12 | Single Image-Based Vignetting Correction for Improving the Consistency of Neural Activity Analysis in 2-Photon Functional Microscopy. Frontiers in Neuroinformatics, 2021, 15, 674439. | 1.3 | O |
| 13 | Combining Direct 3D Volume Rendering and Magnetic Particle Imaging to Advance Radiation-Free Real-Time 3D Guidance of Vascular Interventions. CardioVascular and Interventional Radiology, 2020, 43, 322-330. | 0.9 | 8 |
| 14 | Skin Lesion Classification Using CNNs With Patch-Based Attention and Diagnosis-Guided Loss Weighting. IEEE Transactions on Biomedical Engineering, 2020, 67, 495-503. | 2.5 | 98 |
| 15 | Selfâ€contained deep learningâ€based boosting of 4D coneâ€beam CT reconstruction. Medical Physics, 2020, 47, 5619-5631. | 1.6 | 20 |
| 16 | Skin lesion classification using ensembles of multi-resolution EfficientNets with meta data. MethodsX, 2020, 7, 100864. | 0.7 | 180 |
| 17 | Technological quality requirements for stereotactic radiotherapy. Strahlentherapie Und Onkologie, 2020, 196, 421-443. | 1.0 | 76 |
| 18 | Intelligent 4D CT sequence scanning (i4DCT): First scanner prototype implementation and phantom measurements of automated breathing signalâ€guided 4D CT. Medical Physics, 2020, 47, 2408-2412. | 1.6 | 11 |

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| 19 | 4D CT image artifacts affect local control in SBRT of lung and liver metastases. Radiotherapy and Oncology, 2020, 148, 229-234. | 0.3 | 27 |
| 20 | Widening the Focus: Biomedical Image Segmentation Challenges and the Underestimated Role of Patch Sampling and Inference Strategies. Lecture Notes in Computer Science, 2020, , 289-298. | 1.0 | 3 |
| 21 | Time Matters: Handling Spatio-Temporal Perfusion Information for Automated TICI Scoring. Lecture Notes in Computer Science, 2020, , 86-96. | 1.0 | 5 |
| 22 | Digital Health meets Hamburg integrated medical degree program iMED: concept and introduction of the new interdisciplinary 2 track Digital Health. GMS Journal for Medical Education, 2020, 37, Doc61. | 0.1 | 0 |
| 23 | High-Resolution Calcium Imaging Method for Local Calcium Signaling. Methods in Molecular Biology, 2019, 1929, 27-39. | 0.4 | 9 |
| 24 | Intelligent 4D CT sequence scanning (i4DCT): Concept and performance evaluation. Medical Physics, 2019, 46, 3462-3474. | 1.6 | 17 |
| 25 | Discrimination of the hierarchical structure of cortical layers in 2-photon microscopy data by combined unsupervised and supervised machine learning. Scientific Reports, 2019, 9, 7424. | 1.6 | 9 |
| 26 | Radiomics of Brain MRI: Utility in Prediction of Metastatic Tumor Type. Radiology, 2019, 290, 479-487. | 3.6 | 161 |
| 27 | Patient-specific 4D Monte Carlo dose accumulation using correspondence-model-based motion prediction. , 2019, , . | | 0 |
| 28 | Under-reported dosimetry errors due to interplay effects during VMAT dose delivery in extreme hypofractionated stereotactic radiotherapy. Strahlentherapie Und Onkologie, 2018, 194, 570-579. | 1.0 | 19 |
| 29 | Einfluss nicht-rigider Bildregistrierung auf 4D-Dosissimulation bei extrakranieller SBRT. Informatik Aktuell, 2018, , 188-193. | 0.4 | 0 |
| 30 | Influence of deformable image registration on 4D dose simulation for extracranial SBRT: A multi-registration framework study. Radiotherapy and Oncology, 2018, 127, 225-232. | 0.3 | 16 |
| 31 | A new cerebral vessel benchmark dataset (CAPUT) for validation of image-based aneurysm deformation estimation algorithms. Scientific Reports, 2018, 8, 15999. | 1.6 | 1 |
| 32 | ORAI1, STIM1/2, and RYR1 shape subsecond Ca $<$ sup $>$ 2+ $<$ /sup $>$ microdomains upon T cell activation. Science Signaling, 2018, 11, . | 1.6 | 59 |
| 33 | GDL-FIRE\$\$^ext {4D}\$\$: Deep Learning-Based Fast 4D CT Image Registration. Lecture Notes in Computer Science, 2018, , 765-773. | 1.0 | 25 |
| 34 | Analysis of the influence of imaging-related uncertainties on cerebral aneurysm deformation quantification using a no-deformation physical flow phantom. Scientific Reports, 2018, 8, 11004. | 1.6 | 5 |
| 35 | Influence of 4D CT motion artifacts on correspondence model-based 4D dose accumulation. , 2018, , . | | 7 |
| 36 | Technical considerations for automated low-pitch spiral 4D CT scanning protocol selection. , 2018, , . | | 4 |

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| 37 | Self-reference-based and during-registration detection of motion artifacts in spatio-temporal image data., 2018,,. | | O |
| 38 | Correspondence model-based 4D VMAT dose simulation for analysis of local metastasis recurrence after extracranial SBRT. Physics in Medicine and Biology, 2017, 62, 9001-9017. | 1.6 | 8 |
| 39 | PO-0882: Proxy-free slow-pitch helical 4DCT reconstruction. Radiotherapy and Oncology, 2017, 123, S483-S484. | 0.3 | 3 |
| 40 | Subpopulation-based correspondence modelling for improved respiratory motion estimation in the presence of inter-fraction motion variations. Physics in Medicine and Biology, 2017, 62, 5823-5839. | 1.6 | 8 |
| 41 | Reduction of breathing irregularity-related motion artifacts in low-pitch spiral 4D CT by optimized projection binning. Radiation Oncology, 2017, 12, 100. | 1.2 | 23 |
| 42 | 4D dose simulation in volumetric arc therapy: Accuracy and affecting parameters. PLoS ONE, 2017, 12, e0172810. | 1.1 | 8 |
| 43 | Systematic Analysis of Jurkat T-Cell Deformation in Fluorescence Microscopy Data. Informatik Aktuell, 2017, , 275-280. | 0.4 | 3 |
| 44 | Expanding the clinical spectrum of the â€~ <i><scp>HDAC8</scp></i> à€phenotype' – implications for molecular diagnostics, counseling and risk prediction. Clinical Genetics, 2016, 89, 564-573. | 1.0 | 38 |
| 45 | Phantom-based ground-truth generation for cerebral vessel segmentation and pulsatile deformation analysis., 2016,,. | | 2 |
| 46 | Regional Lung Ventilation Analysis Using Temporally Resolved Magnetic Resonance Imaging. Journal of Computer Assisted Tomography, 2016, 40, 899-906. | 0.5 | 7 |
| 47 | Geometry planning and image registration in magnetic particle imaging using bimodal fiducial markers. Medical Physics, 2016, 43, 2884-2893. | 1.6 | 15 |
| 48 | EP-1763: Experimental analysis of interplay effects in flattening filter free VMAT treatment techniques. Radiotherapy and Oncology, 2016, 119, S826-S827. | 0.3 | 1 |
| 49 | Beyond cost function masking: RPCA-based non-linear registration in the context of VLSM., 2016,,. | | 3 |
| 50 | Required transition from research to clinical application: Report on the 4D treatment planning workshops 2014 and 2015. Physica Medica, 2016, 32, 874-882. | 0.4 | 34 |
| 51 | Optimized projection binning for improved helical amplitude- and phase-based 4DCT reconstruction in the presence of breathing irregularity. Proceedings of SPIE, 2016 , , . | 0.8 | 3 |
| 52 | Broadening of cohesinopathies: exome sequencing identifies mutations in <i><scp>ANKRD11</scp></i> in two patients with Cornelia de Langeâ€overlapping phenotype. Clinical Genetics, 2016, 89, 74-81. | 1.0 | 69 |
| 53 | Real time tracking in liver SBRT: comparison of CyberKnife and Vero by planning structure-based $\langle i \rangle \hat{l}^3 \langle i \rangle$ -evaluation and dose-area-histograms. Physics in Medicine and Biology, 2016, 61, 1677-1691. | 1.6 | 28 |
| 54 | Reference geometry-based detection of (4D-)CT motion artifacts: a feasibility study. , 2015, , . | | 2 |

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| 55 | Respiratory surface motion measurement by Microsoft Kinect. Current Directions in Biomedical Engineering, 2015, 1, 270-273. | 0.2 | 6 |
| 56 | Design, performance characteristics and application examples of a new 4D motion platform. Zeitschrift Fur Medizinische Physik, 2015, 25, 156-167. | 0.6 | 7 |
| 57 | Comparison of 3D and 4D Monte Carlo optimization in robotic tracking stereotactic body radiotherapy of lung cancer. Strahlentherapie Und Onkologie, 2015, 191, 161-171. | 1.0 | 17 |
| 58 | Frontrunners of T cell activation: Initial, localized Ca ²⁺ signals mediated by NAADP and the type 1 ryanodine receptor. Science Signaling, 2015, 8, ra102. | 1.6 | 68 |
| 59 | Sensitivity of tumor motion simulation accuracy to lung biomechanical modeling approaches and parameters. Physics in Medicine and Biology, 2015, 60, 8833-8849. | 1.6 | 22 |
| 60 | Variational Registration. Informatik Aktuell, 2015, , 209-214. | 0.4 | 9 |
| 61 | A Modular Framework for Post-Processing and Analysis of Fluorescence Microscopy Image Sequences of Subcellular Calcium Dynamics. Informatik Aktuell, 2015, , 401-406. | 0.4 | 5 |
| 62 | TH-CD-303-03: Sensitivity of Tumor Motion Simulation Accuracy to Lung Biomechanical Modeling Approaches and Parameters. Medical Physics, 2015, 42, 3729-3729. | 1.6 | 0 |
| 63 | Lung Registration Using Automatically Detected Landmarks. Methods of Information in Medicine, 2014, 53, 250-256. | 0.7 | 7 |
| 64 | Simulation of Range Imaging-based Estimation of Respiratory Lung Motion. Methods of Information in Medicine, 2014, 53, 257-263. | 0.7 | 3 |
| 65 | Estimation of lung motion fields in 4D CT data by variational non-linear intensity-based registration: A comparison and evaluation study. Physics in Medicine and Biology, 2014, 59, 4247-4260. | 1.6 | 48 |
| 66 | Statistical analysis of surrogate signals to incorporate respiratory motion variability into radiotherapy treatment planning. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 67 | Simulation of spatiotemporal CT data sets using a 4D MRI-based lung motion model. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 401-409. | 1.7 | 17 |
| 68 | Multivariate regression approaches for surrogate-based diffeomorphic estimation of respiratory motion in radiation therapy. Physics in Medicine and Biology, 2014, 59, 1147-1164. | 1.6 | 26 |
| 69 | EP-1743: Compilation of a database for illustration and automated detection of 4DCT motion artifacts. Radiotherapy and Oncology, 2014, 111, S266. | 0.3 | 3 |
| 70 | TV-L1-Based 3D Medical Image Registration with the Census Cost Function. Lecture Notes in Computer Science, 2014, , 149-161. | 1.0 | 9 |
| 71 | High Accuracy Optical Flow for 3D Medical Image Registration Using the Census Cost Function. Lecture Notes in Computer Science, 2014, , 23-35. | 1.0 | 16 |
| 72 | A Flexible Variational Registration Framework. The Insight Journal, 2014, , . | 0.2 | 3 |

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| 73 | Assessing accuracy of non-linear registration in 4D image data using automatically detected landmark correspondences. Proceedings of SPIE, $2013, , .$ | 0.8 | 4 |
| 74 | Biophysical Modeling of Respiratory Organ Motion. Biological and Medical Physics Series, 2013, , 61-84. | 0.3 | 2 |
| 75 | Validation and Comparison of Approaches to Respiratory Motion Estimation. Biological and Medical Physics Series, 2013, , 159-183. | 0.3 | 1 |
| 76 | Surrogate-based diffeomorphic motion estimation for radiation therapy: comparison of multivariate regression approaches. , 2013 , , . | | 5 |
| 77 | 4D-MRT-basierte Simulation der Lungenbewegung in statischen CT-Daten. Informatik Aktuell, 2013, , 134-139. | 0.4 | 0 |
| 78 | Decision Forests with Spatio-Temporal Features for Graph-Based Tumor Segmentation in 4D Lung CT. Lecture Notes in Computer Science, 2013, , 179-186. | 1.0 | 0 |
| 79 | Pulmonary lobe segmentation with level sets. , 2012, , . | | 6 |
| 80 | Model-based risk assessment for motion effects in 3D radiotherapy of lung tumors. , 2012, , . | | 2 |
| 81 | Testosterone Synthesis in Patients with $17\hat{l}^2$ -Hydroxysteroid Dehydrogenase 3 Deficiency. Sexual Development, 2012, 6, 161-168. | 1.1 | 23 |
| 82 | Towards accurate dose accumulation for Step-&-Shoot IMRT: Impact of weighting schemes and temporal image resolution on the estimation of dosimetric motion effects. Zeitschrift Fur Medizinische Physik, 2012, 22, 109-122. | 0.6 | 21 |
| 83 | Estimation of slipping organ motion by registration with direction-dependent regularization. Medical Image Analysis, 2012, 16, 150-159. | 7.0 | 81 |
| 84 | Fast Explicit Diffusion for Registration with Direction-Dependent Regularization. Lecture Notes in Computer Science, 2012, , 220-228. | 1.0 | 12 |
| 85 | Lung Registration with Improved Fissure Alignment by Integration of Pulmonary Lobe Segmentation. Lecture Notes in Computer Science, 2012, 15, 74-81. | 1.0 | 5 |
| 86 | Statistical Modeling of 4D Respiratory Lung Motion Using Diffeomorphic Image Registration. IEEE Transactions on Medical Imaging, 2011, 30, 251-265. | 5.4 | 121 |
| 87 | Evaluation of Registration Methods on Thoracic CT: The EMPIRE10 Challenge. IEEE Transactions on Medical Imaging, 2011, 30, 1901-1920. | 5.4 | 363 |
| 88 | Landmark-driven parameter optimization for non-linear image registration. , 2011, , . | | 6 |
| 89 | Technical Note: Development of a tidal volume surrogate that replaces spirometry for physiological breathing monitoring in 4D CT. Medical Physics, 2010, 37, 615-619. | 1.6 | 23 |
| 90 | Estimation of motion fields by non-linear registration for local lung motion analysis in 4D CT image data. International Journal of Computer Assisted Radiology and Surgery, 2010, 5, 595-605. | 1.7 | 10 |

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| 91 | A statistical shape and motion model for the prediction of respiratory lung motion. , 2010, , . | | 7 |
| 92 | Direction-dependent regularization for improved estimation of liver and lung motion in 4D image data. , 2010, , . | | 3 |
| 93 | Validation and comparison of a biophysical modeling approach and non-linear registration for estimation of lung motion fields in thoracic 4D CT data. Proceedings of SPIE, 2009, , . | 0.8 | 13 |
| 94 | Patientâ€specific finite element modeling of respiratory lung motion using 4D CT image data. Medical Physics, 2009, 36, 1500-1511. | 1.6 | 124 |
| 95 | Slipping Objects in Image Registration: Improved Motion Field Estimation with Direction-Dependent Regularization. Lecture Notes in Computer Science, 2009, 12, 755-762. | 1.0 | 20 |
| 96 | Integrierte Segmentierung und Trajektorienberechnung mittels diffeomorpher Registrierung in r \tilde{A} g mlich-zeitlichen CT-Bildfolgen. Informatik Aktuell, 2009, , 182-186. | 0.4 | 0 |
| 97 | Dose Accumulation based on Optimized Motion Field Estimation using Non-Linear Registration in Thoracic 4D CT Image Data. IFMBE Proceedings, 2009, , 950-953. | 0.2 | 1 |
| 98 | 4D Motion Modeling: Estimation of Respiratory Motion for Radiation Therapy. IFMBE Proceedings, 2009, , 2166-2169. | 0.2 | 0 |
| 99 | Modeling respiratory lung motion: a biophysical approach using finite element methods. Proceedings of SPIE, 2008, , . | 0.8 | 18 |
| 100 | Finite-Element-Modellierung von respiratorischen Lungenbewegungen als elastizitÄtstheoretisches Kontaktproblem zur BewegungsschÄtzung in 4D-CT-Daten. Informatik Aktuell, 2008, , 112-116. | 0.4 | 0 |
| 101 | An optical flow based method for improved reconstruction of 4D CT data sets acquired during free breathing. Medical Physics, 2007, 34, 711-721. | 1.6 | 127 |
| 102 | Motion Artifact Reducing Reconstruction of 4D CT Image Data for the Analysis of Respiratory Dynamics. Methods of Information in Medicine, 2007, 46, 254-260. | 0.7 | 32 |
| 103 | 4D medical image computing and visualization of lung tumor mobility in spatio-temporal CT image data. International Journal of Medical Informatics, 2007, 76, S433-S439. | 1.6 | 28 |
| 104 | Generation of 4D CT image data and analysis of lung tumour mobility during the breathing cycle. Studies in Health Technology and Informatics, 2006, 124, 977-82. | 0.2 | 4 |