Andreas K Maier

List of Publications by Year
in descending order

608 papers	10,079 citations	71061 41 h-index	82499 72 g-index
685 all docs	685 docs citations	685 times ranked	11329 citing authors

#	Article	IF	Citations
1	Improving Generalization Capability of Multiorgan Segmentation Models Using Dual-Energy CT. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 79-86.	2.7	2
2	Impact of intraepithelial capillary loops and atypical vessels in confocal laser endomicroscopy for the diagnosis of laryngeal and hypopharyngeal squamous cell carcinoma. European Archives of Oto-Rhino-Laryngology, 2022, 279, 2029-2037.	0.8	5
3	Validation of a classification and scoring system for the diagnosis of laryngeal and pharyngeal squamous cell carcinomas by confocal laser endomicroscopy. Brazilian Journal of Otorhinolaryngology, 2022, 88, S26-S32.	0.4	3
4	Failure and Risk Analysis Based on Maintenance Reports of Machines Components in Manufacturing Industry. Mechanisms and Machine Science, 2022, , 278-286.	0.3	0
5	On Mathews Correlation Coefficient and Improved Distance Map Loss for Automatic Glacier Calving Front Segmentation in SAR Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	4
6	A disease network–based deep learning approach for characterizing melanoma. International Journal of Cancer, 2022, 150, 1029-1044.	2.3	16
7	Rigid and Non-Rigid Motion Compensation in Weight-Bearing CBCT of the Knee Using Simulated Inertial Measurements. IEEE Transactions on Biomedical Engineering, 2022, 69, 1608-1619.	2.5	2
8	Robust partial Fourier reconstruction for diffusion–weighted imaging using a recurrent convolutional neural network. Magnetic Resonance in Medicine, 2022, 87, 2018-2033.	1.9	7
9	Local weather conditions determine DOC production and losses from agricultural fen soils affected by open-pit lignite mining. Catena, 2022, 211, 106012.	2.2	4
10	FlexParser—The adaptive log file parser for continuous results in a changing world. Journal of Software: Evolution and Process, 2022, 34, .	1.2	3
11	How to Get the Most Out of U-Net for Glacier Calving Front Segmentation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1712-1723.	2.3	9
12	Deep learning-based extended field of view computed tomography image reconstruction: influence of network design on image estimation outside the scan field of view. Biomedical Physics and Engineering Express, 2022, 8, 025021.	0.6	2
13	Systematic interpretation of confocal laser endomicroscopy: larynx and pharynx confocal imaging score. Acta Otorhinolaryngologica Italica, 2022, 42, 26-33.	0.7	5
14	Computer-assisted mitotic count using a deep learning–based algorithm improves interobserver reproducibility and accuracy. Veterinary Pathology, 2022, 59, 211-226.	0.8	18
15	Tibia Cortical Bone Segmentation in Micro-CT and X-ray Microscopy Data Using a Single Neural Network. Informatik Aktuell, 2022, , 333-338.	0.4	3
16	Few-shot Unsupervised Domain Adaptation for Multi-modal Cardiac Image Segmentation. Informatik Aktuell, 2022, , 20-25.	0.4	4
17	Pixelwise Distance Regression for Glacier Calving Front Detection and Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	2.7	4
18	Eine sanfte Einführung ins Lernen tiefer neuronaler Netze. , 2022, , 679-696.		0

#	Article	IF	Citations
19	Monte Carlo Dose Simulation for In-Vivo X-Ray Nanoscopy. Informatik Aktuell, 2022, , 107-112.	0.4	6
20	Training Deep Learning Models for 2D Spine X-rays Using Synthetic Images and Annotations Created from 3D CT Volumes. Informatik Aktuell, 2022, , 63-68.	0.4	1
21	Validity of tissue homogeneity in confocal laser endomicroscopy on the diagnosis of laryngeal and hypopharyngeal squamous cell carcinoma. European Archives of Oto-Rhino-Laryngology, 2022, 279, 4147-4156.	0.8	4
22	Radon Improves Clinical Response in an Animal Model of Rheumatoid Arthritis Accompanied by Increased Numbers of Peripheral Blood B Cells and Interleukin-5 Concentration. Cells, 2022, 11, 689.	1.8	3
23	Advanced neural networks for classification of MRI in psoriatic arthritis, seronegative, and seropositive rheumatoid arthritis. Rheumatology, 2022, 61, 4945-4951.	0.9	14
24	Anomaly detection in IR images of PV modules using supervised contrastive learning. Progress in Photovoltaics: Research and Applications, 2022, 30, 597-614.	4.4	13
25	Fiducial marker recovery and detection from severely truncated data in navigationâ€assisted spine surgery. Medical Physics, 2022, 49, 2914-2930.	1.6	2
26	Limited parameter denoising for lowâ€dose Xâ€ray computed tomography using deep reinforcement learning. Medical Physics, 2022, 49, 4540-4553.	1.6	6
27	Learning-based occupational x-ray scatter estimation. Physics in Medicine and Biology, 2022, 67, 075001.	1.6	5
28	Deep Learning-Based Classification of Inflammatory Arthritis by Identification of Joint Shape Patternsâ€"How Neural Networks Can Tell Us Where to â€œDeep Diveâ€•Clinically. Frontiers in Medicine, 2022, 9, 850552.	1.2	12
29	Known operator learning and hybrid machine learning in medical imagingâ€"a review of the past, the present, and the future. Progress in Biomedical Engineering, 2022, 4, 022002.	2.8	16
30	In-vivo dose determination in a human after radon exposure: proof of principle. Radiation and Environmental Biophysics, 2022, 61, 279-292.	0.6	7
31	Patientâ€specific radiation riskâ€based tube current modulation for diagnostic CT. Medical Physics, 2022, 49, 4391-4403.	1.6	6
32	Multi-Stage Platform for (Semi-)Automatic Planning in Reconstructive Orthopedic Surgery. Journal of Imaging, 2022, 8, 108.	1.7	3
33	HEJ 2.1: High-energy resummation with vector bosons and next-to-leading logarithms. Computer Physics Communications, 2022, 278, 108404.	3.0	1
34	ORCA-PARTY: An Automatic Killer Whale Sound Type Separation Toolkit Using Deep Learning. , 2022, , .		0
35	Automatic plane adjustment of orthopedic intraoperative flat panel detector CT-volumes. Journal of Medical Imaging, 2022, 9, 034001.	0.8	1
36	A multi-sensor architecture combining human pose estimation and real-time location systems for workflow monitoring on hybrid operating suites. Future Generation Computer Systems, 2022, 135, 283-298.	4.9	7

#	Article	IF	Citations
37	Ultralowâ€parameter denoising: Trainable bilateral filter layers in computed tomography. Medical Physics, 2022, 49, 5107-5120.	1.6	12
38	One-Shot Object Detection in Heterogeneous Artwork Datasets. , 2022, , .		1
39	Inter-species cell detection - datasets on pulmonary hemosiderophages in equine, human and feline specimens. Scientific Data, 2022, 9, .	2.4	4
40	High-energy logarithmic corrections to the QCD component of same-sign W-pair production. SciPost Physics Proceedings, 2022, , .	0.2	0
41	Neural network based successor representations to form cognitive mapsÂof space and language. Scientific Reports, 2022, 12, .	1.6	7
42	PMS-GAN: Parallel Multi-Stream Generative Adversarial Network for Multi-Material Decomposition in Spectral Computed Tomography. IEEE Transactions on Medical Imaging, 2021, 40, 571-584.	5.4	12
43	A global benchmark of algorithms for segmenting the left atrium from late gadolinium-enhanced cardiac magnetic resonance imaging. Medical Image Analysis, 2021, 67, 101832.	7.0	150
44	Enhancing collaborative road scene reconstruction with unsupervised domain alignment. Machine Vision and Applications, 2021, 32, 1.	1.7	4
45	XDose: toward online cross-validation of experimental and computational X-ray dose estimation. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1-10.	1.7	3
46	Towards accelerated quantitative sodium MRI at 7ÂT in the skeletal muscle: Comparison of anisotropic acquisition- and compressed sensing techniques. Magnetic Resonance Imaging, 2021, 75, 72-88.	1.0	10
47	Characterization of carbon/glass hybrid unidirectional thermoplastic composite. Materials Today: Proceedings, 2021, 34, 356-359.	0.9	0
48	Analysis of continuous neuronal activity evoked by natural speech with computational corpus linguistics methods. Language, Cognition and Neuroscience, 2021, 36, 167-186.	0.7	20
49	Task-Specific Trajectory Optimisation for Twin-Robotic X-Ray Tomography. IEEE Transactions on Computational Imaging, 2021, 7, 894-907.	2.6	13
50	Hardware Failure Prediction on Imbalanced Times Series Data. Journal of Digital Imaging, 2021, 34, 182-189.	1.6	4
51	SmartPatch: Improving Handwritten Word Imitation with Patch Discriminators. Lecture Notes in Computer Science, 2021, , 268-283.	1.0	10
52	ICDAR 2021 Competition on Historical Document Classification. Lecture Notes in Computer Science, 2021, , 618-634.	1.0	7
53	Influence of Inter-Annotator Variability on Automatic Mitotic Figure Assessment. Informatik Aktuell, 2021, , 241-246.	0.4	5
54	Data Extrapolation From Learned Prior Images for Truncation Correction in Computed Tomography. IEEE Transactions on Medical Imaging, 2021, 40, 3042-3053.	5.4	15

#	Article	IF	Citations
55	Learning-based Patch-wise Metal Segmentation with Consistency Check. Informatik Aktuell, 2021, , 4-9.	0.4	3
56	Learning the Update Operator for 2D/3D Image Registration. Informatik Aktuell, 2021, , 117-122.	0.4	2
57	Deep Iterative 2D/3D Registration. Lecture Notes in Computer Science, 2021, , 383-392.	1.0	8
58	Learning the Inverse Weighted Radon Transform. Informatik Aktuell, 2021, , 49-54.	0.4	1
59	Deep Learning Compatible Differentiable X-ray Projections for Inverse Rendering. Informatik Aktuell, 2021, , 290-295.	0.4	3
60	Ultrasound Breast Lesion Detection using Extracted Attention Maps from a Weakly Supervised Convolutional Neural Network. Informatik Aktuell, 2021, , 282-287.	0.4	0
61	Dataset on Bi- and Multi-nucleated Tumor Cells in Canine Cutaneous Mast Cell Tumors. Informatik Aktuell, 2021, , 134-139.	0.4	0
62	Latent Shape Constraint for Anatomical Landmark Detection on Spine Radiographs. Informatik Aktuell, 2021, , 350-355.	0.4	1
63	2D Respiration Navigation Framework for 3D Continuous Cardiac Magnetic Resonance Imaging. Informatik Aktuell, 2021, , 158-163.	0.4	0
64	Implications of Experiment Set-Ups for Residential Water End-Use Classification. Water (Switzerland), 2021, 13, 236.	1.2	7
65	Automatic Chain Line Segmentation in Historical Prints. Lecture Notes in Computer Science, 2021, , 657-665.	1.0	2
66	Data-Driven Speed-of-Sound Reconstruction for Medical Ultrasound: Impacts of Training Data Format and Imperfections on Convergence. Lecture Notes in Computer Science, 2021, , 140-150.	1.0	3
67	Automatic Path Planning for Safe Guide Pin Insertion in PCL Reconstruction Surgery. Lecture Notes in Computer Science, 2021, , 560-570.	1.0	3
68	EXACT: a collaboration toolset for algorithm-aided annotation of images with annotation version control. Scientific Reports, 2021, 11, 4343.	1.6	19
69	Intraoperative free margins assessment of oropharyngeal squamous cell carcinoma with confocal laser endomicroscopy: a pilot study. European Archives of Oto-Rhino-Laryngology, 2021, 278, 4433-4439.	0.8	12
70	Deep action learning enables robust 3D segmentation of body organs in various CT and MRI images. Scientific Reports, 2021, 11, 3311.	1.6	10
71	Weakly Supervised Deep Learning-Based Optical Coherence Tomography Angiography. IEEE Transactions on Medical Imaging, 2021, 40, 688-698.	5.4	20
72	A phantom study on dose efficiency for orthopedic applications: Comparing slot‐scanning radiography using ultra‐small‐angle tomosynthesis to conventional radiography. Medical Physics, 2021, 48, 2170-2184.	1.6	1

#	Article	IF	Citations
73	Radon Adsorption in Charcoal. International Journal of Environmental Research and Public Health, 2021, 18, 4454.	1.2	10
74	The Last Glacial Maximum in Europe â€" State of the Art in Geoscience and Archaeology. Quaternary International, 2021, 581-582, 1-6.	0.7	5
75	Self-Supervised Learning of Domain-Invariant Local Features for Robust Visual Localization Under Challenging Conditions. IEEE Robotics and Automation Letters, 2021, 6, 2753-2760.	3.3	3
76	â€œKeep it simple, scholarâ€ an experimental analysis of few-parameter segmentation networks for retinal vessels in fundus imaging. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 967-978.	1.7	2
77	Combined subleading high-energy logarithms and NLO accuracy for W production in association with multiple jets. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8
78	Segmentation of photovoltaic module cells in uncalibrated electroluminescence images. Machine Vision and Applications, 2021, 32, 1.	1.7	39
79	Analysis and visualization of sleep stages based on deep neural networks. Neurobiology of Sleep and Circadian Rhythms, 2021, 10, 100064.	1.4	24
80	Deepâ€learningâ€based pipeline for module power prediction from electroluminescense measurements. Progress in Photovoltaics: Research and Applications, 2021, 29, 920-935.	4.4	11
81	Deep learning methods allow fully automated segmentation of metacarpal bones to quantify volumetric bone mineral density. Scientific Reports, 2021, 11, 9697.	1.6	9
82	Synthetic Image Rendering Solves Annotation Problem in Deep Learning Nanoparticle Segmentation. Small Methods, 2021, 5, e2100223.	4.6	25
83	Cephalogram synthesis and landmark detection in dental cone-beam CT systems. Medical Image Analysis, 2021, 70, 102028.	7.0	11
84	Drivers controlling spatial and temporal variation of microbial properties and dissolved organic forms (DOC and DON) in fen soils with persistently low water tables. Global Ecology and Conservation, 2021, 27, e01605.	1.0	6
85	On the present habitats and ecology of Vertigo pseudosubstriata LoÅ¾ek, 1954 (Mollusca, Gastropoda,) Tj ETQq1 1 0.784314 rgBT / Quaternary Science, 2021, 36, 1090-1100.	1.1	0
86	Module-Power Prediction from PL Measurements using Deep Learning. , 2021, , .		0
87	MR-contrast-aware image-to-image translations with generative adversarial networks. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 2069-2078.	1.7	14
88	Joint Superresolution and Rectification for Solar Cell Inspection. IEEE Journal of Photovoltaics, 2021, 11, 1051-1058.	1.5	0
89	DEDDIAG, a domestic electricity demand dataset of individual appliances in Germany. Scientific Data, 2021, 8, 176.	2.4	15
90	Spatio-Temporal Multi-Task Learning for Cardiac MRI Left Ventricle Quantification. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2698-2709.	3.9	9

#	Article	IF	Citations
91	ChainLineNet: Deep-Learning-Based Segmentation and Parameterization of Chain Lines in Historical Prints. Journal of Imaging, 2021, 7, 120.	1.7	3
92	The Potential of OMICs Technologies for the Treatment of Immune-Mediated Inflammatory Diseases. International Journal of Molecular Sciences, 2021, 22, 7506.	1.8	6
93	Quantifying the separability of data classes in neural networks. Neural Networks, 2021, 139, 278-293.	3.3	26
94	Robust classification from noisy labels: Integrating additional knowledge for chest radiography abnormality assessment. Medical Image Analysis, 2021, 72, 102087.	7.0	18
95	Enhanced Magnetic Resonance Image Synthesis with Contrast-Aware Generative Adversarial Networks. Journal of Imaging, 2021, 7, 133.	1.7	5
96	Deep Learning-Based ECG-Free Cardiac Navigation for Multi-Dimensional and Motion-Resolved Continuous Magnetic Resonance Imaging. IEEE Transactions on Medical Imaging, 2021, 40, 2105-2117.	5.4	2
97	Feasibility of intraoperative assessment of safe surgical margins during laryngectomy with confocal laser endomicroscopy: A pilot study. Auris Nasus Larynx, 2021, 48, 764-769.	0.5	12
98	X-Ray Scatter Estimation Using Deep Splines. IEEE Transactions on Medical Imaging, 2021, 40, 2272-2283.	5.4	8
99	Comparison of methods for sensitivity correction in Talbotâ€"Lau computed tomography. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 2099-2106.	1.7	0
100	Monocular multi-person pose estimation: A survey. Pattern Recognition, 2021, 118, 108046.	5.1	11
101	RGB-D-based Human Detection and Segmentation for Mobile Robot Navigation in Industrial Environments. , 2021, , .		2
102	Cell Detection for Asthma on Partially Annotated Whole Slide Images. Informatik Aktuell, 2021, , 147-152.	0.4	3
103	An Automated Deep Learning Method for Tile AO/OTA Pelvic Fracture Severity Grading from Trauma whole-Body CT. Journal of Digital Imaging, 2021, 34, 53-65.	1.6	14
104	Adapt Everywhere: Unsupervised Adaptation of Point-Clouds and Entropy Minimization for Multi-Modal Cardiac Image Segmentation. IEEE Transactions on Medical Imaging, 2021, 40, 1838-1851.	5.4	23
105	Acquisition Parameter-conditioned Magnetic Resonance Image-to-image Translation. Informatik Aktuell, 2021, , 199-204.	0.4	0
106	3D Non-Rigid Alignment of Low-Dose Scans Allows to Correct for Saturation in Lower Extremity Cone-Beam CT. IEEE Access, 2021, 9, 71821-71831.	2.6	0
107	Photoluminescence for Defect Detection on Full-Sized Photovoltaic Modules. IEEE Journal of Photovoltaics, 2021, 11, 1419-1429.	1.5	27
108	Fast onlineâ€customized (FOCUS) parallel transmission pulses: A combination of universal pulses and individual optimization. Magnetic Resonance in Medicine, 2021, 85, 3140-3153.	1.9	29

#	Article	IF	Citations
109	Approaching prehistoric demography: proxies, scales and scope of the Cologne Protocol in European contexts. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20190714.	1.8	21
110	Maximum a posteriori signal recovery for optical coherence tomography angiography image generation and denoising. Biomedical Optics Express, 2021, 12, 55.	1.5	4
111	Efficient and high accuracy 3-D OCT angiography motion correction in pathology. Biomedical Optics Express, 2021, 12, 125.	1.5	12
112	Radon Exposure—Therapeutic Effect and Cancer Risk. International Journal of Molecular Sciences, 2021, 22, 316.	1.8	43
113	OCT-OCTA segmentation: combining structural and blood flow information to segment Bruch's membrane. Biomedical Optics Express, 2021, 12, 84.	1.5	13
114	IJCARS: BVM 2021 special issue. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 2067-2068.	1.7	1
115	Merging-ISP: Multi-exposure High Dynamic Range Image Signal Processing. Lecture Notes in Computer Science, 2021, , 328-342.	1.0	3
116	Logarithmic corrections to the QCD component of same-sign W -pair production for vector boson scattering studies. Physical Review D, 2021, 104, .	1.6	4
117	Deep learning acceleration of Total Lagrangian Explicit Dynamics for soft tissue mechanics. Computer Methods in Applied Mechanics and Engineering, 2020, 358, 112628.	3.4	34
118	Evaluation of MRI to Ultrasound Registration Methods for Brain Shift Correction: The CuRIOUS2018 Challenge. IEEE Transactions on Medical Imaging, 2020, 39, 777-786.	5.4	42
119	Robust Multi-View 2-D/3-D Registration Using Point-To-Plane Correspondence Model. IEEE Transactions on Medical Imaging, 2020, 39, 161-174.	5.4	13
120	Peptides in proteins. Journal of Peptide Science, 2020, 26, e3235.	0.8	4
121	Particle filter de-noising of voxel-specific time-activity-curves in personalized 177Lu therapy. Zeitschrift Fur Medizinische Physik, 2020, 30, 116-134.	0.6	2
122	α-Irradiation setup for primary human cell cultures. International Journal of Radiation Biology, 2020, 96, 206-213.	1.0	2
123	Application of Corneal Optical Coherence Tomography Angiography for Assessment of Vessel Depth in Corneal Neovascularization. Cornea, 2020, 39, 598-604.	0.9	8
124	Beyond the Alps and Tatra Mountains—the 20–14 ka Repopulation of the Northern Mid-latitudes as Inferred from Palimpsests Deciphered with Keys from Western and Central Europe. Journal of Paleolithic Archaeology, 2020, 3, 398-452.	0.7	15
125	SPATIAL DISTRIBUTION OF CHORIOCAPILLARIS IMPAIRMENT IN EYES WITH CHOROIDAL NEOVASCULARIZATION SECONDARY TO AGE-RELATED MACULAR DEGENERATION. Retina, 2020, 40, 428-445.	1.0	32
126	A Framework for Multiscale Quantitation of Relationships Between Choriocapillaris Flow Impairment and Geographic Atrophy Growth. American Journal of Ophthalmology, 2020, 214, 172-187.	1.7	18

#	Article	IF	Citations
127	Automatic multi‑organ segmentation in dual‑energy CT (DECT) with dedicated 3D fully convolutional DECT networks. Medical Physics, 2020, 47, 552-562.	1.6	33
128	Computerized Calculation of Mitotic Count Distribution in Canine Cutaneous Mast Cell Tumor Sections: Mitotic Count Is Area Dependent. Veterinary Pathology, 2020, 57, 214-226.	0.8	31
129	Robust Camera Pose Estimation for Unordered Road Scene Images in Varying Viewing Conditions. IEEE Transactions on Intelligent Vehicles, 2020, 5, 165-174.	9.4	11
130	Multi-Modal Deep Guided Filtering for Comprehensible Medical Image Processing. IEEE Transactions on Medical Imaging, 2020, 39, 1703-1711.	5.4	16
131	Deep learning algorithms out-perform veterinary pathologists in detecting the mitotically most active tumor region. Scientific Reports, 2020, 10, 16447.	1.6	39
132	Scanning trajectory optimisation using a quantitative Tuybased local quality estimation for robot-based X-ray computed tomography. Nondestructive Testing and Evaluation, 2020, 35, 287-303.	1.1	14
133	An Assessment of Radiation Doses From Radon Exposures Using a Mouse Model System. International Journal of Radiation Oncology Biology Physics, 2020, 108, 770-778.	0.4	6
134	Fully Automated 3D Cardiac MRI Localisation and Segmentation Using Deep Neural Networks. Journal of Imaging, 2020, 6, 65.	1.7	19
135	A completely annotated whole slide image dataset of canine breast cancer to aid human breast cancer research. Scientific Data, 2020, 7, 417.	2.4	32
136	Expression of Melatonin Receptor 1 in Rat Mesenteric Artery and Perivascular Adipose Tissue and Vasoactive Action of Melatonin. Cellular and Molecular Neurobiology, 2020, 41, 1589-1598.	1.7	2
137	Art2Contour: Salient Contour Detection in Artworks Using Generative Adversarial Networks. , 2020, , .		4
138	Mapping Ensembles of Trees to Sparse, Interpretable Multilayer Perceptron Networks. SN Computer Science, 2020, 1, 1.	2.3	5
139	Deep Learning-Based Quantification of Pulmonary Hemosiderophages in Cytology Slides. Scientific Reports, 2020, 10, 9795.	1.6	38
140	A learning-based method for online adjustment of C-arm Cone-beam CT source trajectories for artifact avoidance. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1787-1796.	1.7	19
141	ICFHR 2020 Competition on Image Retrieval for Historical Handwritten Fragments. , 2020, , .		8
142	Will We Ever Have Conscious Machines?. Frontiers in Computational Neuroscience, 2020, 14, 556544.	1.2	18
143	Automatic dementia screening and scoring by applying deep learning on clock-drawing tests. Scientific Reports, 2020, 10, 20854.	1.6	36
144	Assisting Maritime Search and Rescue (SAR) Personnel with AI-Based Speech Recognition and Smart Direction Finding. Journal of Marine Science and Engineering, 2020, 8, 818.	1.2	6

#	Article	IF	Citations
145	Modern machine-learning can support diagnostic differentiation of central and peripheral acute vestibular disorders. Journal of Neurology, 2020, 267, 143-152.	1.8	29
146	Known Operator Learning Enables Constrained Projection Geometry Conversion: Parallel to Cone-Beam for Hybrid MR/X-Ray Imaging. IEEE Transactions on Medical Imaging, 2020, 39, 3488-3498.	5.4	6
147	Dual-Mode Training with Style Control and Quality Enhancement for Road Image Domain Adaptation. , 2020, , .		1
148	C-arm CT imaging with the extended line-ellipse-line trajectory: first implementation on a state-of-the-art robotic angiography system. Physics in Medicine and Biology, 2020, 65, 185016.	1.6	4
149	Appearance Learning for Image-Based Motion Estimation in Tomography. IEEE Transactions on Medical Imaging, 2020, 39, 3667-3678.	5.4	4
150	Learning an Attention Model for Robust 2-D/3-D Registration Using Point-To-Plane Correspondences. IEEE Transactions on Medical Imaging, 2020, 39, 3159-3174.	5.4	16
151	Accelerated quantification of tissue sodium concentration in skeletal muscle tissue: quantitative capability of dictionary learning compressed sensing. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 495-505.	1.1	9
152	Temporal and Spatial Detection of the Onset of Local Necking and Assessment of its Growth Behavior. Materials, 2020, 13, 2427.	1.3	1
153	Three-dimensional Monte Carlo-based voxel-wise tumor dosimetry in patients with neuroendocrine tumors who underwent 177Lu-DOTATOC therapy. Annals of Nuclear Medicine, 2020, 34, 244-253.	1.2	11
154	Truncation Correction for X-ray Phase-Contrast Region-of-Interest Tomography. IEEE Transactions on Computational Imaging, 2020, 6, 625-639.	2.6	5
155	Baptizo: A sensor fusion based model for tracking the identity of human poses. Information Fusion, 2020, 62, 1-13.	11.7	8
156	Free‐breathing fat and R_2* quantification in the liver using a stack‐of‐stars multi‐echo acquisition with respiratory‐resolved model‐based reconstruction. Magnetic Resonance in Medicine, 2020, 84, 2592-2605.	1.9	17
157	The Effect of Data Augmentation on Classification of Atrial Fibrillation in Short Single-Lead ECG Signals Using Deep Neural Networks. , 2020, , .		25
158	ForestNet â€" Automatic Design of Sparse Multilayer Perceptron Network Architectures Using Ensembles of Randomized Trees. Lecture Notes in Computer Science, 2020, , 32-45.	1.0	1
159	Re-Ranking for Writer Identification and Writer Retrieval. Lecture Notes in Computer Science, 2020, , 572-586.	1.0	5
160	Are Fast Labeling Methods Reliable? A Case Study of Computer-Aided Expert Annotations on Microscopy Slides. Lecture Notes in Computer Science, 2020, , 24-32.	1.0	7
161	Simultaneous Estimation of X-Ray Back-Scatter and Forward-Scatter Using Multi-task Learning. Lecture Notes in Computer Science, 2020, , 199-208.	1.0	2
162	Automatic Plane Adjustment of Orthopedic Intraoperative Flat Panel Detector CT-Volumes. Lecture Notes in Computer Science, 2020, , 486-495.	1.0	2

#	Article	IF	Citations
163	JBFnet - Low Dose CT Denoising by Trainable Joint Bilateral Filtering. Lecture Notes in Computer Science, 2020, , 506-515.	1.0	12
164	Inertial Measurements for Motion Compensation in Weight-Bearing Cone-Beam CT of the Knee. Lecture Notes in Computer Science, 2020, , 14-23.	1.0	2
165	Move Over There: One-Click Deformation Correction for Image Fusion During Endovascular Aortic Repair. Lecture Notes in Computer Science, 2020, , 713-723.	1.0	2
166	Automatic CAD-RADS Scoring Using Deep Learning. Lecture Notes in Computer Science, 2020, , 45-54.	1.0	5
167	Contour-Based Bone Axis Detection for X-Ray Guided Surgery on the Knee. Lecture Notes in Computer Science, 2020, , 671-680.	1.0	6
168	Spatio-Temporal Handwriting Imitation. Lecture Notes in Computer Science, 2020, , 528-543.	1.0	12
169	Deep Learning-Based Denoising of Mammographic Images Using Physics-Driven Data Augmentation. Informatik Aktuell, 2020, , 94-100.	0.4	7
170	Tenfold your Photons. Informatik Aktuell, 2020, , 113-118.	0.4	1
171	Prediction of MRI Hardware Failures based on Image Features Using Time Series Classification. Informatik Aktuell, 2020, , 131-136.	0.4	3
172	Prediction of MRI Hardware Failures Based on Image Features Using Ensemble Learning. Informatik Aktuell, 2020, , 137-142.	0.4	1
173	Deep Autofocus with Cone-Beam CT Consistency Constraint. Informatik Aktuell, 2020, , 169-174.	0.4	1
174	Learning-Based Correspondence Estimation for 2-D/3-D Registration. Informatik Aktuell, 2020, , 222-228.	0.4	5
175	Limited angle tomography for transmission X-ray microscopy using deep learning. Journal of Synchrotron Radiation, 2020, 27, 477-485.	1.0	21
176	DNN-based Speed-of-Sound Reconstruction for Automated Breast Ultrasound. , 2020, , .		8
177	C-arm CT imaging using the extended line-ellipse-line trajectory: seamless FBP reconstruction from real data. , 2020, , .		1
178	Noise reduction in optical coherence tomography images using a deep neural network with perceptually-sensitive loss function. Biomedical Optics Express, 2020, 11, 817.	1.5	71
179	Comparative study of deep learning models for optical coherence tomography angiography. Biomedical Optics Express, 2020, 11, 1580.	1.5	35
180	Implementation of machine learning into clinical breast MRI: Potential for objective and accurate decision-making in suspicious breast masses. PLoS ONE, 2020, 15, e0228446.	1.1	20

#	Article	IF	Citations
181	Reduktion von Metallartefakten durch multipositionale Datenfusion in der industriellen Röntgen-Computertomographie. TM Technisches Messen, 2020, 87, 101-110.	0.3	3
182	Multi-Channel Volumetric Neural Network for Knee Cartilage Segmentation in Cone-Beam CT. Informatik Aktuell, 2020, , 67-72.	0.4	0
183	Asymmetric information in the German intraday electricity market. Energy Economics, 2020, 89, 104785.	5.6	2
184	Deep Recurrent Partial Fourier Reconstruction in Diffusion MRI. Lecture Notes in Computer Science, 2020, , 38-47.	1.0	1
185	Deep Learning Algorithms for Coronary Artery Plaque Characterisation from CCTA Scans. Informatik Aktuell, 2020, , 193-198.	0.4	6
186	Fully-Automatic CT Data Preparation for Interventional X-Ray Skin Dose Simulation. Informatik Aktuell, 2020, , 125-130.	0.4	2
187	Automated Multi-sequence Cardiac MRI Segmentation Using Supervised Domain Adaptation. Lecture Notes in Computer Science, 2020, , 300-308.	1.0	8
188	Imitation Learning Network for Fundus Image Registration Using a Divide-And-Conquer Approach. Informatik Aktuell, 2020, , 301-306.	0.4	0
189	The Notary in the Haystack â€" Countering Class Imbalance in Document Processing with CNNs. Lecture Notes in Computer Science, 2020, , 246-261.	1.0	2
190	Investigation of Feature-Based Nonrigid Image Registration Using Gaussian Process. Informatik Aktuell, 2020, , 156-162.	0.4	1
191	Deep OCT Angiography Image Generation for Motion Artifact Suppression. Informatik Aktuell, 2020, , 248-253.	0.4	3
192	Combining 2-D and 3-D Weight-Bearing X-Ray Images. Informatik Aktuell, 2020, , 335-340.	0.4	0
193	Understanding Compositional Structures in Art Historical Images Using Pose and Gaze Priors. Lecture Notes in Computer Science, 2020, , 109-125.	1.0	5
194	Field of View Extension in Computed Tomography Using Deep Learning Prior. Informatik Aktuell, 2020, , 186-191.	0.4	5
195	Correction propagation for user-assisted optical coherence tomography segmentation: general framework and application to Bruchâ€™s membrane segmentation. Biomedical Optics Express, 2020, 11, 2830.	1.5	1
196	Feature Loss After Denoising of SPECT Projection Data using a U-Net. , 2020, , .		0
197	A Survey of Sensors in Healthcare Workflow Monitoring. ACM Computing Surveys, 2019, 51, 1-37.	16.1	23
198	Deep learning-based detection of motion artifacts in probe-based confocal laser endomicroscopy images. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 31-42.	1.7	36

#	Article	IF	Citations
199	Traditional machine learning for limited angle tomography. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 11-19.	1.7	8
200	ORCA-SPOT: An Automatic Killer Whale Sound Detection Toolkit Using Deep Learning. Scientific Reports, 2019, 9, 10997.	1.6	55
201	Technical Note: PYROâ€NN: Python reconstruction operators in neural networks. Medical Physics, 2019, 46, 5110-5115.	1.6	42
202	Next-generation imaging of the skeletal system and its blood supply. Nature Reviews Rheumatology, 2019, 15, 533-549.	3.5	46
203	Physicsâ€driven learning of xâ€ray skin dose distribution in interventional procedures. Medical Physics, 2019, 46, 4654-4665.	1.6	16
204	Transferability of Deep Learning Algorithms for Malignancy Detection in Confocal Laser Endomicroscopy Images from Different Anatomical Locations of the Upper Gastrointestinal Tract. Communications in Computer and Information Science, 2019, , 67-85.	0.4	7
205	Pitfalls in interventional X-ray organ dose assessmentâ€"combined experimental and computational phantom study: application to prostatic artery embolization. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1859-1869.	1.7	7
206	A 3-D Projection Model for X-ray Dark-field Imaging. Scientific Reports, 2019, 9, 9216.	1.6	6
207	Toward Bridging the Simulated-to-Real Gap: Benchmarking Super-Resolution on Real Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1.	9.7	29
208	Co-localized augmented human and X-ray observers in collaborative surgical ecosystem. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1553-1563.	1.7	11
209	A combined experimental and theoretical study of radon solubility in fat and water. Scientific Reports, 2019, 9, 10768.	1.6	16
210	Automated Billing Code Retrieval from MRI Scanner Log Data. Journal of Digital Imaging, 2019, 32, 1103-1111.	1.6	11
211	An in silico twin for epicardial augmentation of the failingÂheart. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3233.	1.0	24
212	Fast and Efficient Limited Data Hyperspectral Remote Sensing Image Classification via GMM-Based Synthetic Samples. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2107-2120.	2.3	10
213	IJCARS: BVM 2019 special issue. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1823-1824.	1.7	0
214	Highâ€speed slotâ€scanning radiography using smallâ€angle tomosynthesis: Investigation of spatial resolution. Medical Physics, 2019, 46, 5454-5466.	1.6	6
215	Weakly Supervised Segmentation of Cracks on Solar Cells Using Normalized L_p Norm. , 2019, , .		38
216	Learning with known operators reduces maximum error bounds. Nature Machine Intelligence, 2019, 1, 373-380.	8.3	111

#	Article	IF	Citations
217	Simultaneous reconstruction of multiple stiff wires from a single X-ray projection for endovascular aortic repair. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1891-1899.	1.7	6
218	Symmetry prior for epipolar consistency. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1541-1551.	1.7	7
219	Inhomogeneous distribution of radon in different types of tissue in the human body. BIO Web of Conferences, 2019, 14, 03001.	0.1	0
220	Automated Calculation of Alberta Stroke Program Early CT Score. Stroke, 2019, 50, 3277-3279.	1.0	42
221	A Semi-Automated Usability Evaluation Framework for Interactive Image Segmentation Systems. International Journal of Biomedical Imaging, 2019, 2019, 1-21.	3.0	7
222	A gentle introduction to deep learning in medical image processing. Zeitschrift Fur Medizinische Physik, 2019, 29, 86-101.	0.6	344
223	On Providing Multi-Level Quality of Service for Operating Rooms of the Future. Sensors, 2019, 19, 2303.	2.1	6
224	Determination of Forming Limits in Sheet Metal Forming Using Deep Learning. Materials, 2019, 12, 1051.	1.3	12
225	A deep learning based pipeline for optical coherence tomography angiography. Journal of Biophotonics, 2019, 12, e201900008.	1.1	31
226	Factors affecting accuracy of S values and determination of time-integrated activity in clinical Lu-177 dosimetry. Annals of Nuclear Medicine, 2019, 33, 521-531.	1.2	9
227	Registration of vascular structures using a hybrid mixture model. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1507-1516.	1.7	4
228	Segmentation, Classification, and Visualization of Orca Calls Using Deep Learning. , 2019, , .		7
229	Finite quark-mass effects in Higgs boson production with dijets at large energies. Journal of High Energy Physics, 2019, 2019, 1.	1.6	11
230	Learning to detect anatomical landmarks of the pelvis in X-rays from arbitrary views. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1463-1473.	1.7	24
231	Robust mixed one-bit compressive sensing. Signal Processing, 2019, 162, 161-168.	2.1	5
232	Automatic classification of defective photovoltaic module cells in electroluminescence images. Solar Energy, 2019, 185, 455-468.	2.9	250
233	Virtual cleaning and unwrapping of non-invasively digitized soiled bamboo scrolls. Scientific Reports, 2019, 9, 2311.	1.6	5
234	Dilated Convolutions in Neural Networks for Left Atrial Segmentation in 3D Gadolinium Enhanced-MRI. Lecture Notes in Computer Science, 2019, , 319-328.	1.0	15

#	Article	IF	Citations
235	Metric-Driven Learning of Correspondence Weighting for 2-D/3-D Image Registration. Lecture Notes in Computer Science, 2019, , 140-152.	1.0	10
236	Guest editorial of the IJCARSâ€"BVM 2018 special issue. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1-2.	1.7	4
237	Speech intelligibility in patients with oral cancer: An objective baseline evaluation of pretreatment function and impairment. Head and Neck, 2019, 41, 1063-1069.	0.9	6
238	Measuring Surface Area of Skin Lesions with 2D and 3D Algorithms. International Journal of Biomedical Imaging, 2019, 2019, 1-9.	3.0	9
239	Enhanced Crack Segmentation (eCS): A Reference Algorithm for Segmenting Cracks in Multicrystalline Silicon Solar Cells. IEEE Journal of Photovoltaics, 2019, 9, 752-758.	1.5	36
240	Local topology preservation for vascular centerline matching using a hybrid mixture model. , 2019, , .		0
241	Deep Generalized Max Pooling. , 2019, , .		45
242	ICDAR 2019 Competition on Image Retrieval for Historical Handwritten Documents. , 2019, , .		20
243	On the Value of the Non-negativity Constraint in CT. , 2019, , .		0
244	Estimating the Fundamental Matrix Without Point Correspondences With Application to Transmission Imaging. , 2019, , .		4
245	U-Net for SPECT Image Denoising. , 2019, , .		9
246	Automatic Orientation Estimation of Inertial Sensors in C-Arm CT Projections. Current Directions in Biomedical Engineering, 2019, 5, 195-198.	0.2	2
247	A large-scale dataset for mitotic figure assessment on whole slide images of canine cutaneous mast cell tumor. Scientific Data, 2019, 6, 274.	2.4	32
248	A comparison of methods for adapting ^{177}Lu dose-voxel-kernels to tissue inhomogeneities. Physics in Medicine and Biology, 2019, 64, 245011.	1.6	13
249	Calibrationâ€free beam hardening reduction in xâ€ray CBCT using the epipolar consistency condition and physical constraints. Medical Physics, 2019, 46, e810-e822.	1.6	4
250	Impact of the nonâ€negativity constraint in modelâ€based iterative reconstruction from CT data. Medical Physics, 2019, 46, e835-e854.	1.6	6
251	Projection-to-Projection Translation for Hybrid X-ray and Magnetic Resonance Imaging. Scientific Reports, 2019, 9, 18814.	1.6	4
252	Toward analyzing mutual interference on infrared-enabled depth cameras. Computer Vision and Image Understanding, 2019, 178, 1-15.	3.0	6

#	Article	IF	Citations
253	Accurate fatty acid composition estimation of adipose tissue in the abdomen based on bipolar multi‑echo MRI. Magnetic Resonance in Medicine, 2019, 81, 2330-2346.	1.9	13
254	Simulation study on X-ray phase contrast imaging with dual-phase gratings. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 3-10.	1.7	6
255	A machine learning pipeline for internal anatomical landmark embedding based on a patient surface model. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 53-61.	1.7	7
256	A learning‑based material decomposition pipeline for multi‑energy x‑ray imaging. Medical Physics, 2019, 46, 689-703.	1.6	24
257	Multi-Scale Deep Reinforcement Learning for Real-Time 3D-Landmark Detection in CT Scans. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 176-189.	9.7	209
258	Deriving Neural Network Architectures Using Precision Learning: Parallel-to-Fan Beam Conversion. Lecture Notes in Computer Science, 2019, , 503-517.	1.0	6
259	Fast and Robust Detection of Solar Modules in Electroluminescence Images. Lecture Notes in Computer Science, 2019, , 519-531.	1.0	2
260	Multi-task Localization and Segmentation for X-Ray Guided Planning in Knee Surgery. Lecture Notes in Computer Science, 2019, , 622-630.	1.0	17
261	A Divide-and-Conquer Approach Towards Understanding Deep Networks. Lecture Notes in Computer Science, 2019, , 183-191.	1.0	11
262	RinQ Fingerprinting: Recurrence-Informed Quantile Networks for Magnetic Resonance Fingerprinting. Lecture Notes in Computer Science, 2019, , 92-100.	1.0	8
263	Coronary Artery Plaque Characterization from CCTA Scans Using Deep Learning and Radiomics. Lecture Notes in Computer Science, 2019, , 593-601.	1.0	11
264	Learning to Avoid Poor Images: Towards Task-aware C-arm Cone-beam CT Trajectories. Lecture Notes in Computer Science, 2019, , 11-19.	1.0	10
265	Data Consistent Artifact Reduction for Limited Angle Tomography with Deep Learning Prior. Lecture Notes in Computer Science, 2019, , 101-112.	1.0	20
266	Deep Learning Based Metal Inpainting in the Projection Domain: Initial Results. Lecture Notes in Computer Science, 2019, , 125-136.	1.0	4
267	User Loss A Forced-Choice-Inspired Approach to Train Neural Networks Directly by User Interaction. Informatik Aktuell, 2019, , 92-97.	0.4	1
268	Maximum Likelihood Estimation of Head Motion Using Epipolar Consistency. Informatik Aktuell, 2019, , 134-139.	0.4	5
269	3D-Reconstruction of Stiff Wires from a Single Monoplane X-Ray Image. Informatik Aktuell, 2019, , 172-177.	0.4	1
270	Image-Based Detection of MRI Hardware Failures. Informatik Aktuell, 2019, , 206-211.	0.4	3

#	ARTICLE	IF	CITATIONS
271	Effects of Tissue Material Properties on X-Ray Image, Scatter and Patient Dose A Monte Carlo Simulation. Informatik Aktuell, 2019, , 270-275.	0.4	1
272	Augmented Mitotic Cell Count Using Field of Interest Proposal. Informatik Aktuell, 2019, , 321-326.	0.4	2
273	Classification of Leukemic B-Lymphoblast Cells from Blood Smear Microscopic Images with an Attention-Based Deep Learning Method and Advanced Augmentation Techniques. Lecture Notes in Bioengineering, 2019, , 13-22.	0.3	12
274	Assessment of measurement deviations: length-extended x-ray imaging for orthopedic applications. , 2019, , .		5
275	Exploring the space between smoothed and non-smooth total variation for 3D iterative CT reconstruction. , 2019, , .		1
276	Motion gradients for epipolar consistency. , 2019, , .		1
277	Theoretically-exact filtered-backprojection reconstruction from real data on the line-ellipse-line trajectory. , 2019, , .		2
278	Recognizing Characters in Art History Using Deep Learning. , 2019, , .		15
279	Dataset of Pages from Early Printed Books with Multiple Font Groups. , 2019, , .		11
280	Probe-based confocal laser endomicroscopy in detecting malignant lesions of vocal folds. Acta Otorhinolaryngologica Italica, 2019, 39, 389-395.	0.7	18
281	Magnetic Resonance Fingerprinting Reconstruction Using Recurrent Neural Networks. Studies in Health Technology and Informatics, 2019, 267, 126-133.	0.2	8
282	Field of Interest Proposal for Augmented Mitotic Cell Count: Comparison of Two Convolutional Networks. , 2019, , .		1
283	On the Characteristics of Helical 3D X-Ray Dark-Field Imaging. Informatik Aktuell, 2019, , 264-269.	0.4	0
284	Workflow Phase Detection in Fluoroscopic Images Using Convolutional Neural Networks. Informatik Aktuell, 2019, , 191-196.	0.4	0
285	Respiratory Deformation Estimation in X-Ray-Guided IMRT Using a Bilinear Model. Informatik Aktuell, 2019, , 315-320.	0.4	0
286	Detection of Unseen Low-Contrast Signals Using Classic and Novel Model Observers. Informatik Aktuell, 2019, , 212-217.	0.4	0
287	Isocenter Determination from Projection Matrices of a C-Arm CBCT. Informatik Aktuell, 2019, , 276-281.	0.4	0
288	Measuring CT Reconstruction Quality with Deep Convolutional Neural Networks. Lecture Notes in Computer Science, 2019, , 113-124.	1.0	6

#	Article	IF	Citations
289	Multi-Modal Super-Resolution with Deep Guided Filtering. Informatik Aktuell, 2019, , 110-115.	0.4	4
290	Smooth Ride: Low-Pass Filtering of Manual Segmentations Improves Consensus. Informatik Aktuell, 2019, , 86-91.	0.4	0
291	Deep Representation Learning for Orca Call Type Classification. Lecture Notes in Computer Science, 2019, , 274-286.	1.0	4
292	Decoupling Respiratory and Angular Variation in Rotational X-ray Scans Using a Prior Bilinear Model. Lecture Notes in Computer Science, 2019, , 583-594.	1.0	1
293	Semi-Automatic Cell Correspondence Analysis Using Iterative Point Cloud Registration. Informatik Aktuell, 2019, , 116-121.	0.4	0
294	SHAMANN: Shared Memory Augmented Neural Networks. Lecture Notes in Computer Science, 2019, , 830-841.	1.0	2
295	Noise reduction method in low-dose CT data combining neural networks and an iterative reconstruction technique. , 2019, , .		1
296	Multidimensional noise reduction in C-arm cone-beam CT via 2D-based Landweber iteration and 3D-based deep neural networks. , 2019, , .		0
297	Projection image-to-image translation in hybrid x-ray/MR imaging. , 2019, , .		0
298	Mammographic breast density classification using a deep neural network: assessment on the basis of inter-observer variability. , 2019, , .		5
299	Left ventricle segmentation in LGE-MRI using multiclass learning. , 2019, , .		0
300	Traditional Machine Learning Techniques for Streak Artifact Reduction in Limited Angle Tomography. Informatik Aktuell, 2018, , 222-227.	0.4	1
301	Fourier-based Reduction of Directed Streak Artifacts in Cone-Beam CT. Informatik Aktuell, 2018, , 127-132.	0.4	0
302	Prior-Free Respiratory Motion Estimation in Rotational Angiography. IEEE Transactions on Medical Imaging, 2018, 37, 1999-2009.	5.4	6
303	Comparative Analysis of Unsupervised Algorithms for Breast MRI Lesion Segmentation. Informatik Aktuell, 2018, , 257-262.	0.4	3
304	Material Decomposition Using Ensemble Learning for Spectral X-ray Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 194-204.	2.7	14
305	Geometric primitive refinement for structured light cameras. Machine Vision and Applications, 2018, 29, 313-327.	1.7	5
306	Method for measurement of radon diffusion and solubility in solid materials. Nuclear Instruments & Methods in Physics Research B, 2018, 416, 119-127.	0.6	8

#	Article	IF	Citations
307	Scale-Space Anisotropic Total Variation for Limited Angle Tomography. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 307-314.	2.7	29
308	Reconstruction of top-quark mass effects in Higgs pair production and other gluon-fusion processes. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40
309	GMM-Based Synthetic Samples for Classification of Hyperspectral Images With Limited Training Data. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 942-946.	1.4	25
310	Deformable respiratory motion correction for hepatic rotational angiography. Computerized Medical Imaging and Graphics, 2018, 66, 82-89.	3.5	16
311	Classification With Truncated <inline-formula> <tex-math notation="LaTeX">$\ell _{1}$ </tex-math> </inline-formula> Distance Kernel. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2025-2030.	7.2	15
312	An MR-Based Model for Cardio-Respiratory Motion Compensation of Overlays in X-Ray Fluoroscopy. IEEE Transactions on Medical Imaging, 2018, 37, 47-60.	5.4	8
313	Single-breath-hold 3-D CINE imaging of the left ventricle using Cartesian sampling. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 19-31.	1.1	33
314	Individualized Biventricular Epicardial Augmentation Technology in a Drug-Induced Porcine Failing Heart Model. ASAIO Journal, 2018, 64, 480-488.	0.9	8
315	Analyzing Relative Blood Flow Speeds in Choroidal Neovascularization Using Variable Interscan Time Analysis OCT Angiography. Ophthalmology Retina, 2018, 2, 306-319.	1.2	19
316	Automated Curved and Multiplanar Reformation for Screening of the Proximal Coronary Arteries in MR Angiography. Journal of Imaging, 2018, 4, 124.	1.7	2
317	Hyper-Hue and EMAP on Hyperspectral Images for Supervised Layer Decomposition of Old Master Drawings. , 2018, , .		0
318	Augmented reality‐based feedback for technician‐in‐the‐loop C‐arm repositioning. Healthcare Technology Letters, 2018, 5, 143-147.	1.9	32
319	Precision Learning: Towards Use of Known Operators in Neural Networks. , 2018, , .		18
320	Image Reconstruction with Variational Networks: Application to Synchrotron Radiation Imaging. , 2018, , .		0
321	SkinNet: A Deep Learning Framework for Skin Lesion Segmentation. , 2018, , .		36
322	Learning from a Handful Volumes: MRI Resolution Enhancement with Volumetric Super-Resolution Forests. , 2018, , .		1
323	Myocardial Scar Segmentation in LGE-MRI using Fractal Analysis and Random Forest Classification. , 2018, , .		7
324	Fast Sample Generation with Variational Bayesian for Limited Data Hyperspectral Image Classification. , 2018, , .		2

#	Article	IF	Citations
325	Analysis of Forming Limits in Sheet Metal Forming with Pattern Recognition Methods. Part 2: Unsupervised Methodology and Application. Materials, 2018, 11, 1892.	1.3	7
326	A Multi-task Framework for Skin Lesion Detection and Segmentation. Lecture Notes in Computer Science, 2018, , 285-293.	1.0	28
327	Some Investigations on Robustness of Deep Learning in Limited Angle Tomography. Lecture Notes in Computer Science, 2018, , 145-153.	1.0	80
328	X-ray-transform Invariant Anatomical Landmark Detection for Pelvic Trauma Surgery. Lecture Notes in Computer Science, 2018, , 55-63.	1.0	61
329	Phase-Sensitive Region-of-Interest Computed Tomography. Lecture Notes in Computer Science, 2018, , 137-144.	1.0	2
330	Browsing through sealed historical manuscripts by using 3-D computed tomography with low-brilliance X-ray sources. Scientific Reports, 2018, 8, 15335.	1.6	18
331	Multiple Device Segmentation for Fluoroscopic Imaging Using Multi-task Learning. Lecture Notes in Computer Science, 2018, , 19-27.	1.0	5
332	Intraoperative Brain Shift Compensation Using a Hybrid Mixture Model. Lecture Notes in Computer Science, 2018, , 116-124.	1.0	10
333	NLO and off-shell effects in top quark mass determinations. Journal of High Energy Physics, 2018, 2018, 1.	1.6	16
334	Higgs-boson plus dijets: higher-order matching for high-energy predictions. Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
335	Detecting Anatomical Landmarks for Motion Estimation in Weight-Bearing Imaging of Knees. Lecture Notes in Computer Science, 2018, , 83-90.	1.0	11
336	Analysis of Forming Limits in Sheet Metal Forming with Pattern Recognition Methods. Part 1: Characterization of Onset of Necking and Expert Evaluation. Materials, 2018, 11, 1495.	1.3	10
337	Feasibility of Motion Compensation using Inertial Measurement in C-arm CT. , 2018, , .		2
338	Left Ventricle Segmentation in LGE-MRI: Filter Based vs. Learning Based. , 2018, , .		0
339	Deep Learning Computed Tomography: Learning Projection-Domain Weights From Image Domain in Limited Angle Problems. IEEE Transactions on Medical Imaging, 2018, 37, 1454-1463.	5.4	166
340	Intraoperative stent segmentation in X-ray fluoroscopy for endovascular aortic repair. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1221-1231.	1.7	20
341	Single-breath-hold abdominal T_{1} T 1 Â mapping using 3D Cartesian Look-Locker with spatiotemporal sparsity constraints. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 399-414.	1.1	1
342	Towards intelligent robust detection of anatomical structures in incomplete volumetric data. Medical Image Analysis, 2018, 48, 203-213.	7.0	33

#	Article	IF	Citations
343	Classification of Breast Cancer Histology Images Using Transfer Learning. Lecture Notes in Computer Science, 2018, , 812-819.	1.0	78
344	Range Imaging for Motion Compensation in C-Arm Cone-Beam CT of Knees under Weight-Bearing Conditions. Journal of Imaging, 2018, 4, 13.	1.7	12
345	Non-destructive Digitization of Soiled Historical Chinese Bamboo Scrolls. , 2018, , .		3
346	Encoding CNN Activations for Writer Recognition. , 2018, , .		36
347	Towards contextâ€sensitive CT imaging â€" organâ€specific image formation for single (SECT) and dual energy computed tomography (DECT). Medical Physics, 2018, 45, 4541-4557.	1.6	6
348	Improving the identification of hedonic quality in user requirements: a second controlled experiment. Requirements Engineering, 2018, 23, 401-424.	2.1	5
349	Viewpoint planning for quantitative coronary angiography. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1159-1167.	1.7	5
350	Temporal and volumetric denoising via quantile sparse image prior. Medical Image Analysis, 2018, 48, 131-146.	7.0	12
351	Towards Arbitrary Noise Augmentationâ€"Deep Learning for Sampling from Arbitrary Probability Distributions. Lecture Notes in Computer Science, 2018, , 129-137.	1.0	6
352	Adversarial and Perceptual Refinement for Compressed Sensing MRI Reconstruction. Lecture Notes in Computer Science, 2018, , 232-240.	1.0	50
353	Double Your Views â€" Exploiting Symmetry in Transmission Imaging. Lecture Notes in Computer Science, 2018, , 356-364.	1.0	4
354	Closing the Calibration Loop: An Inside-Out-Tracking Paradigm for Augmented Reality in Orthopedic Surgery. Lecture Notes in Computer Science, 2018, , 299-306.	1.0	27
355	Resolve Intraoperative Brain Shift as Imitation Game. Lecture Notes in Computer Science, 2018, , 129-137.	1.0	11
356	X-ray Imaging. Lecture Notes in Computer Science, 2018, , 119-145.	1.0	13
357	Detecting and Measuring Surface Area of Skin Lesions. Informatik Aktuell, 2018, , 29-34.	0.4	2
358	Towards Full-body X-ray Images. Informatik Aktuell, 2018, , 86-91.	0.4	2
359	A Joint Probabilistic Model for Speckle Variance, Amplitude Decorrelation and Interframe Variance (IFV) Optical Coherence Tomography Angiography. Informatik Aktuell, 2018, , 98-102.	0.4	3
360	Towards In-Vivo X-Ray Nanoscopy. Informatik Aktuell, 2018, , 115-120.	0.4	5

#	Article	IF	Citations
361	Synthetic Fundus Fluorescein Angiography using Deep Neural Networks. Informatik Aktuell, 2018, , 234-238.	0.4	6
362	Manifold Learning-based Data Sampling for Model Training. Informatik Aktuell, 2018, , 269-274.	0.4	5
363	SlideRunner. Informatik Aktuell, 2018, , 309-314.	0.4	28
364	Motion Artifact Detection in Confocal Laser Endomicroscopy Images. Informatik Aktuell, 2018, , 328-333.	0.4	6
365	Frangi-Net. Informatik Aktuell, 2018, , 341-346.	0.4	15
366	Myocardial Twist from X-ray Angiography. Informatik Aktuell, 2018, , 365-370.	0.4	1
367	Organ-specific context-sensitive CT image reconstruction and display. , 2018, , .		3
368	Parallel-shift tomosynthesis for orthopedic applications. , 2018, , .		9
369	Geometric modeling of the aortic inner and outer vessel wall from CTA for aortic dissection analysis. , 2018, , .		1
370	Patch-based Carcinoma Detection on Confocal Laser Endomicroscopy Images - A Cross-site Robustness Assessment. , 2018, , .		4
371	Classification of Body Regions Based on MRI Log Files. Advances in Intelligent Systems and Computing, 2018, , 102-109.	0.5	5
372	Preliminary Study Investigating Brain Shift Compensation using 3D CBCT Cerebral Vascular Images. Informatik Aktuell, 2018, , 163-168.	0.4	0
373	Classification of Polyethylene Particles and the Local CD3+ Lymphocytosis in Histological Slices. Informatik Aktuell, 2018, , 228-233.	0.4	0
374	Towards a dual phase grating interferometer on clinical hardware. , 2018, , .		0
375	Application of deep learning algorithms for Lithographic mask characterization. , 2018, , .		2
376	A hybrid approach for virtual clinical trials for mammographic imaging. , 2018, , .		1
377	Probabilistic noninvasive prediction of wall properties of abdominal aortic aneurysms using Bayesian regression. Biomechanics and Modeling in Mechanobiology, 2017, 16, 45-61.	1.4	28
378	High‐resolution dynamic CE‐MRA of the thorax enabled by iterative TWIST reconstruction. Magnetic Resonance in Medicine, 2017, 77, 833-840.	1.9	13

#	Article	IF	Citations
379	Scatter correction using a primary modulator on a clinical angiography C‑arm CT system. Medical Physics, 2017, 44, e125-e137.	1.6	12
380	Modulation of the peripheral immune system after low-dose radon spa therapy: Detailed longitudinal immune monitoring of patients within the RAD-ON01 study. Autoimmunity, 2017, 50, 133-140.	1.2	50
381	Talbot‑Lau X‑ray phase contrast for tiling‑based acquisitions without reference scanning. Medical Physics, 2017, 44, 1886-1898.	1.6	3
382	Fully automatic segmentation of left ventricular anatomy in 3-D LGE-MRI. Computerized Medical Imaging and Graphics, 2017, 59, 13-27.	3.5	25
383	Dynamic 2-D/3-D Rigid Registration Framework Using Point-To-Plane Correspondence Model. IEEE Transactions on Medical Imaging, 2017, 36, 1939-1954.	5.4	24
384	Accelerating multi-echo water-fat MRI with a joint locally low-rank and spatial sparsity-promoting reconstruction. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2017, 30, 189-202.	1.1	10
385	Consistency‑based respiratory motion estimation in rotational angiography. Medical Physics, 2017, 44, e113-e124.	1.6	17
386	Restoration of missing data in limited angle tomography based on Helgason‑Ludwig consistency conditions. Biomedical Physics and Engineering Express, 2017, 3, 035015.	0.6	26
387	Symmetry, outliers, and geodesics in coronary artery centerline reconstruction from rotational angiography. Medical Physics, 2017, 44, 5672-5685.	1.6	9
388	CoronARe: A Coronary Artery Reconstruction Challenge. Lecture Notes in Computer Science, 2017, , 96-104.	1.0	1
389	Rewiring of neuronal networks during synaptic silencing. Scientific Reports, 2017, 7, 11724.	1.6	8
390	Robust Non-rigid Registration Through Agent-Based Action Learning. Lecture Notes in Computer Science, 2017, , 344-352.	1.0	112
391	Robust Multi-scale Anatomical Landmark Detection in Incomplete 3D-CT Data. Lecture Notes in Computer Science, 2017, , 194-202.	1.0	18
392	GMM Supervectors for Limited Training Data in Hyperspectral Remote Sensing Image Classification. Lecture Notes in Computer Science, 2017, , 296-306.	1.0	7
393	Automatic Classification of Cancerous Tissue in Laserendomicroscopy Images of the Oral Cavity using Deep Learning. Scientific Reports, 2017, 7, 11979.	1.6	194
394	Fast and robust selection of highly-correlated features in regression problems. , 2017, , .		4
395	The Definition, Rationale, and Effects of Thresholding in OCT Angiography. Ophthalmology Retina, 2017, 1, 435-447.	1.2	43
396	Guest editorial of the IJCARS MICCAI 2016 special issue. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1243-1244.	1.7	0

#	Article	IF	Citations
397	A User-Centered Model for Usable Security and Privacy. Lecture Notes in Computer Science, 2017, , 74-89.	1.0	6
398	Comparison of Different Approaches for Measuring Tibial Cartilage Thickness. Journal of Integrative Bioinformatics, 2017, 14, .	1.0	15
399	Accurate laser scanner to camera calibration with application to range sensor evaluation. IPSJ Transactions on Computer Vision and Applications, 2017, 9, .	4.4	14
400	Improving the Identification of Hedonic Quality in User Requirements â€" A Controlled Experiment. , 2017, , .		1
401	Spatio-temporally regularized 4-D cardiovascular C-arm CT reconstruction using a proximal algorithm. , 2017, , .		5
402	Automated left ventricle segmentation in 2-D LGE-MRI. , 2017, , .		7
403	The 19th International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI 2016). Medical Image Analysis, 2017, 41, 1.	7.0	2
404	Writer Identification Using GMM Supervectors and Exemplar-SVMs. Pattern Recognition, 2017, 63, 258-267.	5.1	85
405	Unsupervised Learning for Robust Respiratory Signal Estimation From X-Ray Fluoroscopy. IEEE Transactions on Medical Imaging, 2017, 36, 865-877.	5.4	13
406	Indefinite kernels in least squares support vector machines and principal component analysis. Applied and Computational Harmonic Analysis, 2017, 43, 162-172.	1.1	34
407	Optical Coherence Tomography Angiography Characteristics of Iris Melanocytic Tumors. Ophthalmology, 2017, 124, 197-204.	2.5	67
408	Higgs boson plus dijets: higher order corrections. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
409	Unsupervised Feature Learning for Writer Identification and Writer Retrieval. , 2017, , .		66
410	Browsing through Closed Books: Fully Automatic Book Page Extraction from a 3-D X-Ray CT Volume. , 2017, , .		3
411	Noise reduction in low-dose ct using a 3D multiscale sparse denoising autoencoder. , 2017, , .		5
412	Long-term Outcome of Speech Intelligibility in Maxillary Dental Rehabilitation with Full Dentures: A Prospective Study Using Automatic Speech Quantification. International Journal of Prosthodontics, 2017, 30, 419-425.	0.7	3
413	An Improved Extrapolation Scheme for Truncated CT Data Using 2D Fourier-Based Helgason-Ludwig Consistency Conditions. International Journal of Biomedical Imaging, 2017, 2017, 1-14.	3.0	11
414	Automated Detection of Motion Artefacts in MR Imaging Using Decision Forests. Journal of Medical Engineering, 2017, 2017, 1-9.	1.1	38

#	Article	IF	Citations
415	Intraoperative Imaging Modalities and Compensation for Brain Shift in Tumor Resection Surgery. International Journal of Biomedical Imaging, 2017, 2017, 1-18.	3.0	55
416	Photoreceptor Layer Thickness Changes During Dark Adaptation Observed With Ultrahigh-Resolution Optical Coherence Tomography. , 2017, 58, 4632.		61
417	Sheet metal forming limits as classification problem. , 2017, , .		1
418	Rapid Interactive and Intuitive Segmentation of 3D Medical Images Using Radial Basis Function Interpolation. Journal of Imaging, 2017, 3, 56.	1.7	0
419	Multi-View Depth-Aware Rigid 2-D/3-D Registration. , 2017, , .		2
420	Random Forest Based Left Ventricle Segmentation in LGE-MRI. Lecture Notes in Computer Science, 2017, , 152-160.	1.0	3
421	A Deep Learning Architecture for Limited-Angle Computed Tomography Reconstruction. Informatik Aktuell, 2017, , 92-97.	0.4	28
422	Fourier Consistency-Based Motion Estimation in Rotational Angiography. Informatik Aktuell, 2017, , 110-115.	0.4	2
423	A Kernel Ridge Regression Model for Respiratory Motion Estimation in Radiotherapy. Informatik Aktuell, 2017, , 155-160.	0.4	1
424	Automatic Classification and Pathological Staging of Confocal Laser Endomicroscopic Images of the Vocal Cords. Informatik Aktuell, 2017, , 312-317.	0.4	8
425	Improved reconstruction of phase-stepping data for Talbotâ€"Lau x-ray imaging. Journal of Medical Imaging, 2017, 4, 1.	0.8	24
426	Populations headed south? The Gravettian from a palaeodemographic point of view. Antiquity, 2017, 91, 573-588.	0.5	37
427	Motion Compensation Using Range Imaging in C-Arm Cone-Beam CT. Communications in Computer and Information Science, 2017, , 561-570.	0.4	2
428	Epipolar Consistency Conditions for Motion Correction in Weight-Bearing Imaging. Informatik Aktuell, 2017, , 209-214.	0.4	6
429	A Feasibility Study of Automatic Multi-Organ Segmentation Using Probabilistic Atlas. Informatik Aktuell, 2017, , 218-223.	0.4	4
430	Distance error correction for time-of-flight cameras. , 2017, , .		1
431	Deep Learning for Magnetic Resonance Fingerprinting: A New Approach for Predicting Quantitative Parameter Values from Time Series. Studies in Health Technology and Informatics, 2017, 243, 202-206.	0.2	36
432	A Novel Framework for Interactive Visualization and Analysis of Hyperspectral Image Data. Journal of Electrical and Computer Engineering, 2016, 2016, 1-17.	0.6	9

#	Article	IF	Citations
433	Contrast-Based 3D/2D Registration of the Left Atrium: Fast versus Consistent. International Journal of Biomedical Imaging, 2016, 2016, 1-15.	3.0	2
434	Kinect-Based Correction of Overexposure Artifacts in Knee Imaging with C-Arm CT Systems. International Journal of Biomedical Imaging, 2016, 2016, 1-15.	3.0	13
435	Analog non-linear transformation-based tone mapping for image enhancement in C-arm CT. , 2016, , .		4
436	Super-resolved retinal image mosaicing. , 2016, , .		5
437	Over-exposure correction in knee cone-beam CT imaging with automatic exposure control using a partial low dose scan. , 2016, , .		2
438	<scp>MNS</scp>s genotyping by <scp>MALDI</scp>â€‹<scp>TOF MS</scp> shows high concordance with serology, allows gene copy number testing and reveals new St(a) alleles. British Journal of Haematology, 2016, 174, 624-636.	1.2	14
439	Bridge to real data: Empirical multiple material calibration for learning-based material decomposition. , 2016, , .		2
440	Fully Automated Data-Driven Respiratory Signal Extraction From SPECT Images Using Laplacian Eigenmaps. IEEE Transactions on Medical Imaging, 2016, 35, 2425-2435.	5.4	31
441	Einfluss von Bauwerksverformungen auf Fassadenkonstruktionen aus Glas am Beispiel der ETA-Fabrik. Stahlbau, 2016, 85, 207-217.	0.2	0
442	Coping with real world data: Artifact reduction and denoising for motionâ€‘compensated cardiac Câ€‘arm CT. Medical Physics, 2016, 43, 883-893.	1.6	2
443	Markerâ€‘free motion correction in weightâ€‘bearing coneâ€‘beam CT of the knee joint. Medical Physics, 2016, 43, 1235-1248.	1.6	50
444	Interventional dualâ€‘energy imagingâ€"Feasibility of rapid kVâ€‘switching on a Câ€‘arm CT system. Medical Physics, 2016, 43, 5537-5546.	1.6	22
445	TOWARD QUANTITATIVE OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY. Retina, 2016, 36, S118-S126.	1.0	114
446	3-D printing based production of head and neck masks for radiation therapy using CT volume data: A fully automatic framework. , 2016, , .		6
447	3-D reconstruction of historical documents using an X-Ray C-Arm CT system. , 2016, , .		4
448	Reduction of Metal Artifacts Using a New Segmentation Approach. Informatik Aktuell, 2016, , 92-97.	0.4	0
449	Tibial cartilage creep during weight bearing: in vivo 3D CT assessment. Osteoarthritis and Cartilage, 2016, 24, S104.	0.6	4
450	Cryo-Balloon Catheter Localization Based on a Support-Vector-Machine Approach. IEEE Transactions on Medical Imaging, 2016, 35, 1892-1902.	5.4	5

#	Article	IF	Citations
451	Properties of the ellipse-line-ellipse trajectory with asymmetrical variations. , 2016, , .		1
452	Development and validation of a classification and scoring system for the diagnosis of oral squamous cell carcinomas through confocal laser endomicroscopy. Journal of Translational Medicine, 2016, 14, 159.	1.8	31
453	Editorial for the Special Issue on MICCAI 2015. Medical Image Analysis, 2016, 34, 1-2.	7.0	0
454	Dynamic pixel binning allows spatial and angular resolution tradeoffs to improve image quality in X-ray C-arm CT. , 2016, , .		0
455	Exhaustive graph cut-based vasculature reconstruction. , 2016, , .		5
456	Demographic estimates of hunter–gatherers during the Last Glacial Maximum in Europe against the background of palaeoenvironmental data. Quaternary International, 2016, 425, 49-61.	0.7	55
457	Confidence-aware Levenberg-Marquardt optimization for joint motion estimation and super-resolution. , 2016, , .		5
458	Vesselness for text detection in historical document images. , 2016, , .		2
459	Deep Learning Computed Tomography. Lecture Notes in Computer Science, 2016, , 432-440.	1.0	54
460	Object removal in gradient domain of cone-beam CT projections. , 2016, , .		0
461	Helium ions for radiotherapy? Physical and biological verifications of a novel treatment modality. Medical Physics, 2016, 43, 1995-2004.	1.6	87
462	Automatic detection and analysis of photovoltaic modules in aerial infrared imagery. , 2016, , .		47
463	Comparative Evaluation of Interactive Segmentation Approaches. Informatik Aktuell, 2016, , 68-73.	0.4	3
464	OCPAD — Occluded checkerboard pattern detector. , 2016, , .		8
465	The Added Value of Volume-of-Interest C-Arm CT Imaging during Endovascular Treatment of Intracranial Aneurysms. American Journal of Neuroradiology, 2016, 37, 660-666.	1.2	7
466	Automatic Finger Joint Detection for Volumetric Hand Imaging. Informatik Aktuell, 2016, , 104-109.	0.4	0
467	Patient-individualized boundary conditions for CFD simulations using time-resolved 3D angiography. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 1061-1069.	1.7	7
468	Robust Multiframe Super-Resolution Employing Iteratively Re-Weighted Minimization. IEEE Transactions on Computational Imaging, 2016, 2, 42-58.	2.6	81

#	Article	IF	Citations
469	A Comparative Error Analysis of Current Time-of-Flight Sensors. IEEE Transactions on Computational Imaging, 2016, 2, 27-41.	2.6	71
470	Real-Time Respiratory Motion Analysis Using 4-D Shape Priors. IEEE Transactions on Biomedical Engineering, 2016, 63, 485-495.	2.5	11
471	Electrophysiology Catheter Detection and Reconstruction From Two Views in Fluoroscopic Images. IEEE Transactions on Medical Imaging, 2016, 35, 567-579.	5.4	27
472	Data Completeness Estimation for 3D C-Arm Scans with Rotated Detector to Enlarge the Lateral Field-of-View. Informatik Aktuell, 2016, , 164-169.	0.4	5
473	Make the Most of Time Temporal Extension of the iTV Algorithm for 4D Cardiac C-Arm CT. Informatik Aktuell, 2016, , 170-175.	0.4	1
474	Image Quality Analysis of Limited Angle Tomography Using the Shift-Variant Data Loss Model. Informatik Aktuell, 2016, , 277-282.	0.4	4
475	Dual-energy C-arm CT in the angiographic suite. , 2015, , .		2
476	Kill-painting of hypoxic tumours in charged particle therapy. Scientific Reports, 2015, 5, 17016.	1.6	124
477	Dynamic detector offsets for field of view extension in C‑arm computed tomography with application to weight‑bearing imaging. Medical Physics, 2015, 42, 2718-2729.	1.6	11
478	Patient‑bounded extrapolation using low‑dose priors for volume‑of‑interest imaging in C‑arm CT. Medical Physics, 2015, 42, 1787-1796.	1.6	10
479	A New Approach to the Evaluation of Forming Limits in Sheet Metal Forming. Key Engineering Materials, 2015, 639, 333-338.	0.4	14
480	Approximate path seeking for statistical iterative reconstruction. , 2015, , .		1
481	Experimental setup for radon exposure and first diffusion studies using gamma spectroscopy. Nuclear Instruments & Methods in Physics Research B, 2015, 362, 187-193.	0.6	13
482	A fully-automatic locally adaptive thresholding algorithm for blood vessel segmentation in 3D digital subtraction angiography. , 2015, 2015, 2006-9.		8
483	Open-source 4D statistical shape model of the heart for x-ray projection imaging. , 2015, , .		8
484	A Gauss-Seidel Iteration Scheme for Reference-Free 3-D Histological Image Reconstruction. IEEE Transactions on Medical Imaging, 2015, 34, 514-530.	5.4	18
485	A Robust Probabilistic Model for Motion Layer Separation in X-ray Fluoroscopy. Lecture Notes in Computer Science, 2015, 24, 288-299.	1.0	6
486	Epipolar Consistency in Transmission Imaging. IEEE Transactions on Medical Imaging, 2015, 34, 2205-2219.	5.4	48

#	Article	IF	Citations
487	Multi-Dimensional Flow-Preserving Compressed Sensing (MuFloCoS) for Time-Resolved Velocity-Encoded Phase Contrast MRI. IEEE Transactions on Medical Imaging, 2015, 34, 400-414.	5.4	16
488	Offline Writer Identification Using Convolutional Neural Network Activation Features. Lecture Notes in Computer Science, 2015, , 540-552.	1.0	42
489	Image-based compensation for involuntary motion in weight-bearing C-arm cone-beam CT scanning of knees. Proceedings of SPIE, 2015, , .	0.8	8
490	Binarization Driven Blind Deconvolution for Document Image Restoration. Lecture Notes in Computer Science, 2015, , 91-102.	1.0	3
491	The Central European Magdalenian. Vertebrate Paleobiology and Paleoanthropology, 2015, , .	0.1	26
492	Axially Extended-Volume C-Arm CT Using a Reverse Helical Trajectory in the Interventional Room. IEEE Transactions on Medical Imaging, 2015, 34, 203-215.	5.4	10
493	Adaption of 3D Models to 2D X-Ray Images during Endovascular Abdominal Aneurysm Repair. Lecture Notes in Computer Science, 2015, , 339-346.	1.0	22
494	Estimate, Compensate, Iterate: Joint Motion Estimation and Compensation in 4-D Cardiac C-arm Computed Tomography. Lecture Notes in Computer Science, 2015, , 579-586.	1.0	6
495	Robust Spectral Denoising for Water-Fat Separation in Magnetic Resonance Imaging. Lecture Notes in Computer Science, 2015, , 667-674.	1.0	6
496	Semi-Automatic Basket Catheter Reconstruction from Two X-Ray Views. Lecture Notes in Computer Science, 2015, , 379-389.	1.0	1
497	Discrete Estimation of Data Completeness for 3D Scan Trajectories with Detector Offset. Informatik Aktuell, 2015, , 47-52.	0.4	7
498	Projection and Reconstruction-Based Noise Filtering Methods in Cone Beam CT. Informatik Aktuell, 2015, , 59-64.	0.4	4
499	Projection-Based Denoising Method for Photon-Counting Energy-Resolving Detectors. Informatik Aktuell, 2015, , 137-142.	0.4	4
500	Respiratory Motion Compensation for C-Arm CT Liver Imaging. Informatik Aktuell, 2015, , 221-226.	0.4	3
501	Band-Pass Filter Design by Segmentation in Frequency Domain for Detection of Epithelial Cells in Endomicroscope Images. Informatik Aktuell, 2015, , 413-418.	0.4	4
502	Over-Exposure Correction in CT Using Optimization-Based Multiple Cylinder Fitting. Informatik Aktuell, 2015, , 35-40.	0.4	5
503	Classification of Confocal Laser Endomicroscopic Images of the Oral Cavity to Distinguish Pathological from Healthy Tissue. Informatik Aktuell, 2015, , 479-485.	0.4	9
504	3D Tensor Reconstruction in X-Ray Dark-Field Tomography. Informatik Aktuell, 2015, , 492-497.	0.4	3

#	Article	IF	Citations
505	A Unified Bayesian Approach to Multi-Frame Super-Resolution and Single-Image Upsampling in Multi-Sensor Imaging. , 2015, , .		3
506	Epipolar Consistency in Fluoroscopy for Image-Based Tracking. , 2015, , .		6
507	Investigation of Single Photon Emission Computed Tomography Acquired on Helical Trajectories. Informatik Aktuell, 2015, , 504-509.	0.4	0
508	Fiducial marker-based correction for involuntary motion in weight-bearing C-arm CT scanning of knees. II. Experiment. Medical Physics, 2014, 41, 061902.	1.6	41
509	Influence of the phase effect on gradientâ€based and statisticsâ€based focus measures in bright field microscopy. Journal of Microscopy, 2014, 254, 65-74.	0.8	1
510	Ein multifunktionales und energetisch aktives Fassadenelement aus Beton. Bautechnik, 2014, 91, 167-174.	0.2	2
511	A practical statistical polychromatic image reconstruction for computed tomography using spectrum binning. , 2014, , .		1
512	Denoising and artefact reduction in dynamic flat detector CT perfusion imaging using high speed acquisition: first experimental and clinical results. Physics in Medicine and Biology, 2014, 59, 4505-4524.	1.6	14
513	Molecular RHD screening of RhD negative donors can replace standard serological testing for RhD negative donors. Transfusion and Apheresis Science, 2014, 50, 163-168.	0.5	18
514	Using the low-pass monogenic signal framework for cell/background classification on multiple cell lines in bright-field microscope images. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 379-386.	1.7	3
515	Interventional heart wall motion analysis with cardiac C-arm CT systems. Physics in Medicine and Biology, 2014, 59, 2265-2284.	1.6	5
516	Image artefact propagation in motion estimation and reconstruction in interventional cardiac C-arm CT. Physics in Medicine and Biology, 2014, 59, 3121-3138.	1.6	18
517	Towards Clinical Application of a Laplace Operator-Based Region of Interest Reconstruction Algorithm in C-Arm CT. IEEE Transactions on Medical Imaging, 2014, 33, 593-606.	5.4	12
518	Reconstruction of scalar and vectorial components in X-ray dark-field tomography. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12699-12704.	3.3	32
519	NLO QCD corrections to W + W â€' b b Â¯ $$ {W}^{+}{W}^{-} boverline{b} $$ production with leptonic decays in the light of top quark mass and asymmetry measurements. Journal of High Energy Physics, 2014, 2014, 1.	1.6	42
520	Scaling calibration in region of interest reconstruction with the 1D and 2D ATRACT algorithm. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 345-356.	1.7	8
521	Effective one step-iterative fiducial marker-based compensation for involuntary motion in weight-bearing C-arm cone-beam CT scanning of knees. Proceedings of SPIE, 2014, , .	0.8	3
522	Shading correction for grating-based differential phase contrast X-ray imaging. , 2014, , .		4

#	Article	IF	Citations
523	Signal Decomposition for X-ray Dark-Field Imaging. Lecture Notes in Computer Science, 2014, 17, 170-177.	1.0	6
524	Unsupervised Unstained Cell Detection by SIFT Keypoint Clustering and Self-labeling Algorithm. Lecture Notes in Computer Science, 2014, 17, 377-384.	1.0	10
525	Automatic Removal of Externally Attached Fiducial Markers in Cone Beam C-Arm CT. Informatik Aktuell, 2014, , 318-323.	0.4	5
526	Fast Interpolation of Dense Motion Fields from Synthetic Phantoms. Informatik Aktuell, 2014, , 168-173.	0.4	1
527	Evaluation of Spectrum Mismatching Using Spectrum Binning for Statistical Polychromatic Reconstruction in CT. Informatik Aktuell, 2014, , 42-47.	0.4	2
528	Respiratory Motion Estimation Using a 3D Diaphragm Model. Informatik Aktuell, 2014, , 240-245.	0.4	1
529	Active contours methods with respect to Vickers indentations. Machine Vision and Applications, 2013, 24, 1183-1196.	1.7	9
530	Free-Breathing Whole-Heart Coronary MRA: Motion Compensation Integrated into 3D Cartesian Compressed Sensing Reconstruction. Lecture Notes in Computer Science, 2013, 16, 575-582.	1.0	8
531	Evaluation of interpolation methods for surface†based motion compensated tomographic reconstruction for cardiac angiographic C†arm data. Medical Physics, 2013, 40, 031107.	1.6	13
532	Human-centric analysis of driver inattention. , 2013, , .		1
533	Analysis of three-dimensional joint space of the tibiofemoral joint. , 2013, , .		0
534	Fiducial marker†based correction for involuntary motion in weight†bearing C†arm CT scanning of knees. Part I. Numerical model†based optimization. Medical Physics, 2013, 40, 091905.	1.6	32
535	Guided noise reduction with streak removal for high speed flat detector CT perfusion. , 2013, , .		0
536	Truncation correction for VOI C-arm CT using scattered radiation. Proceedings of SPIE, 2013, , .	0.8	2
537	Reconstruction from truncated projections in cone-beam CT using an efficient 1D filtering. Proceedings of SPIE, 2013, , .	0.8	5
538	Influence of chronic hypoxia and radiation quality on cell survival. Journal of Radiation Research, 2013, 54, i13-i22.	0.8	42
539	Influence of acute hypoxia and radiation quality on cell survival. Journal of Radiation Research, 2013, 54, i23-i30.	0.8	49
540	Respiratory Motion Compensation Using Diaphragm Tracking for Cone-Beam C-Arm CT: A Simulation and a Phantom Study. International Journal of Biomedical Imaging, 2013, 2013, 1-10.	3.0	10

#	Article	IF	Citations
541	Approximate truncation robust computed tomographyâ€"ATRACT. Physics in Medicine and Biology, 2013, 58, 6133-6148.	1.6	18
542	Including oxygen enhancement ratio in ion beam treatment planning: model implementation and experimental verification. Physics in Medicine and Biology, 2013, 58, 3871-3895.	1.6	73
543	Automatic Histogram-Based Initialization of K-Means Clustering in CT. Informatik Aktuell, 2013, , 277-282.	0.4	9
544	Dynamic Iterative Reconstruction for Interventional 4-D C-Arm CT Perfusion Imaging. IEEE Transactions on Medical Imaging, 2013, 32, 1336-1348.	5.4	43
545	Left ventricular heart phantom for wall motion analysis. , 2013, , .		0
546	Dose reduction achieved by dynamically collimating the redundant rays in fan-beam and cone-beam CT. , 2013, , .		1
547	A realistic digital phantom for perfusion C-arm CT based on MRI data. , 2013, , .		5
548	Automatic Cell Detection in Bright-Field Microscope Images Using SIFT, Random Forests, and Hierarchical Clustering. IEEE Transactions on Medical Imaging, 2013, 32, 2274-2286.	5.4	53
549	Edge-preserving bilateral filtering for images containing dense objects in CT. , 2013, , .		1
550	CONRADâ€"A software framework for coneâ€beam imaging in radiology. Medical Physics, 2013, 40, 111914.	1.6	106
551	Convolution-Based Truncation Correction for C-Arm CT Using Scattered Radiation. Informatik Aktuell, 2013, , 338-343.	0.4	2
552	Low-Rank and Sparse Matrix Decomposition for Compressed Sensing Reconstruction of Magnetic Resonance 4D Phase Contrast Blood Flow Imaging (LoSDeCoS 4D-PCI). Lecture Notes in Computer Science, 2013, 16, 558-565.	1.0	4
553	Scaling Calibration in the ATRACT Algorithm. Informatik Aktuell, 2013, , 104-109.	0.4	1
554	Fast simulation of x-ray projections of spline-based surfaces using an append buffer. Physics in Medicine and Biology, 2012, 57, 6193-6210.	1.6	27
555	Efficient focus assessment for a computer vision-based Vickers hardness measurement system. Journal of Electronic Imaging, 2012, 21, 021114.	0.5	6
556	Region-of-interest reconstruction on medical C-arms with the ATRACT algorithm. Proceedings of SPIE, 2012, , .	0.8	15
557	Reverse vertical transmission of hepatitis B virus (HBV) infection from a transfusion-infected newborn to her mother. Journal of Hepatology, 2012, 56, 734-737.	1.8	7
558	Automatically evaluated degree of intelligibility of children with different cleft type from preschool and elementary school measured by automatic speech recognition. International Journal of Pediatric Otorhinolaryngology, 2012, 76, 362-369.	0.4	19

#	Article	IF	Citations
559	Efficient 2D filtering for cone-beam VOI reconstruction. , 2012, , .		8
560	Spatial-temporal total variation regularization (STTVR) for 4D-CT reconstruction. Proceedings of SPIE, 2012, , .	0.8	21
561	Correlation of biomechanics to tissue reaction in aortic aneurysms assessed by finite elements and [18F]â€"fluorodeoxyglucoseâ€"PET/CT. International Journal for Numerical Methods in Biomedical Engineering, 2012, 28, 456-471.	1.0	25
562	A continuum description of the damage process in the arterial wall of abdominal aortic aneurysms. International Journal for Numerical Methods in Biomedical Engineering, 2012, 28, 87-99.	1.0	27
563	The Impact of Unfocused Vickers Indentation Images on the Segmentation Performance. Lecture Notes in Computer Science, 2012, , 468-478.	1.0	2
564	Accelerated Centre-of-Gravity Calculation for Massive Numbers of Image Patches. Lecture Notes in Computer Science, 2012, , 566-574.	1.0	0
565	Adjoint Based Calibration of Coupled Simulation Approaches of Patient-Specific Vascular Models. , 2012, , .		0
566	Bois Laiterie revisited: functional, morphological and technological analysis of a Late Glacial hunting camp in north-western Europe. Journal of Archaeological Science, 2011, 38, 1468-1484.	1.2	15
567	Automatic Quantification of Speech Intelligibility in Patients After Treatment for Oral Squamous Cell Carcinoma. Journal of Oral and Maxillofacial Surgery, 2011, 69, 1493-1500.	0.5	18
568	An automatic version of a reading disorder test. ACM Transactions on Speech and Language Processing, 2011, 7, 1-15.	0.9	6
569	Voice Handicap and Health-Related Quality of Life after Treatment for Small Laryngeal Carcinoma. Folia Phoniatrica Et Logopaedica, 2011, 63, 122-128.	0.5	5
570	Threeâ€dimensional anisotropic adaptive filtering of projection data for noise reduction in cone beam CT. Medical Physics, 2011, 38, 5896-5909.	1.6	32
571	Analysis of vertical and horizontal circular C-arm trajectories. Proceedings of SPIE, 2011, , .	0.8	20
572	Measurement of angles in time-of-flight data for the automatic supervision of training exercises. , 2010, , .		4
573	The use of automatic speech recognition showing the influence of nasality on speech intelligibility. European Archives of Oto-Rhino-Laryngology, 2010, 267, 1719-1725.	0.8	5
574	Improvement of a speech recognizer for standardized medical assessment of children's speech by integration of prior knowledge. , 2010, , .		1
575	The impact of model assumptions on results of computational mechanics in abdominal aortic aneurysm. Journal of Vascular Surgery, 2010, 51, 679-688.	0.6	73
576	Automatic Speech Recognition Systems for the Evaluation of Voice and Speech Disorders in Head and Neck Cancer. Eurasip Journal on Audio, Speech, and Music Processing, 2010, 2010, 1-7.	1.3	33

#	Article	IF	Citations
577	Automatic Speech Recognition Systems for the Evaluation of Voice and Speech Disorders in Head and Neck Cancer. Eurasip Journal on Audio, Speech, and Music Processing, 2010, 2010, 926951.	1.3	20
578	Automatic detection of articulation disorders in children with cleft lip and palate. Journal of the Acoustical Society of America, 2009, 126, 2589-2602.	0.5	53
579	Prospective, Paired Crossover Comparison of the in vitro Quality of Red Blood Cells Collected by the Automate for Blood Collection Device or by a Conventional Method. Transfusion Medicine and Hemotherapy, 2009, 36, 289-292.	0.7	1
580	Automatic classification of reading disorders in a single word reading test. , 2009, , .		0
581	An automatic screening test for preschool children. , 2009, , .		1
582	Towards a language-independent intelligibility assessment of children with cleft lip and palate. , 2009, , .		3
583	Nucleophilic Reactivities of Primary and Secondary Amines in Acetonitrile. European Journal of Organic Chemistry, 2009, 2009, 6379-6385.	1.2	153
584	PEAKS â€" A system for the automatic evaluation of voice and speech disorders. Speech Communication, 2009, 51, 425-437.	1.6	214
585	Star Formation in the Turbulent Interstellar Medium and Its Implications on Galaxy Evolution. , 2009, , 79-91.		0
586	Automatic speech recognition (ASR) and its use as a tool for assessment or therapy of voice, speech, and language disorders. Logopedics Phoniatrics Vocology, 2009, 34, 91-96.	0.5	33
587	3D Tele-Medical Speech Therapy using Time-of-Flight Technology. IFMBE Proceedings, 2009, , 1500-1503.	0.2	2
588	Objective vs.ÂSubjective Evaluation of Speakers with and without Complete Dentures. Lecture Notes in Computer Science, 2009, , 170-177.	1.0	2
589	QMOS - a Robust Visualization Method for Speaker Dependencies With Diï¬€erent Microphones. Journal of Pattern Recognition Research, 2009, 4, 32-51.	0.9	8
590	Towards the Automatic Classification of Reading Disorders in Continuous Text Passages. Lecture Notes in Computer Science, 2009, , 282-290.	1.0	0
591	Automatic Quantification of Speech Intelligibility of Adults with Oral Squamous Cell Carcinoma. Folia Phoniatrica Et Logopaedica, 2008, 60, 151-156.	0.5	35
592	Age and gender recognition for telephone applications based on GMM supervectors and support vector machines. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	70
593	Age Determination of Children in Preschool and Primary School Age with GMM-Based Supervectors and Support Vector Machines/Regression. Lecture Notes in Computer Science, 2008, , 253-260.	1.0	15
594	Influence of Reading Errors on the Text-Based Automatic Evaluation of Pathologic Voices. Lecture Notes in Computer Science, 2008, , 325-332.	1.0	3

#	Article	IF	Citations
595	Analysis of Hypernasal Speech in Children withÂCleftÂLipÂandÂPalate. Lecture Notes in Computer Science, 2008, , 389-396.	1.0	6
596	WEEDING IN THE GARDEN OF FORKING PATHS â€" YET ANOTHER LOOK AT ALTERNATE POSSIBILITIES. Grazer Philosophische Studien, 2008, 76, 228-235.	0.6	0
597	An Extension to the Sammon Mapping for the Robust Visualization of Speaker Dependencies. Lecture Notes in Computer Science, 2008, , 381-388.	1.0	2
598	Auditory perceptible landmarks in mobile navigation. , 2007, , .		18
599	The DELLA Domain of GA INSENSITIVE Mediates the Interaction with the GA INSENSITIVE DWARF1A Gibberellin Receptor of Arabidopsis. Plant Cell, 2007, 19, 1209-1220.	3.1	398
600	Towards More Reality in the Recognition of Emotional Speech. , 2007, , .		89
601	DiffServ-based Service-specific VCM in DVB-S2. , 2007, , .		1
602	Boosting of Prosodic and Pronunciation Features to Detect Mispronunciations of Non-Native Children. , 2007, , .		7
603	Intelligibility Is More Than a Single Word: Quantification of Speech Intelligibility by ASR and Prosody. , 2007, , 278-285.		3
604	Automatic Evaluation of Pathologic Speech â€" from Research to Routine Clinical Use. , 2007, , 294-301.		2
605	Intelligibility of Children with Cleft Lip and Palate: Evaluation by Speech Recognition Techniques. , 2006, , .		9
606	Evaluation of speech intelligibility for children with cleft lip and palate by means of automatic speech recognition. International Journal of Pediatric Otorhinolaryngology, 2006, 70, 1741-1747.	0.4	70
607	Single material beam hardening correction via an analytical energy response model for diagnostic CT. Medical Physics, 0, , .	1.6	1
608	Intrinsic Noise Improves Speech Recognition in a Computational Model of the Auditory Pathway. Frontiers in Neuroscience, 0, 16, .	1.4	17