Andreas K Maier

List of Publications by Year
in descending order

608 papers	10,079 citations	81434 41 h-index	93651 72 g-index
685 all docs	685 docs citations	685 times ranked	12366 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

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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 navigation‐assisted spine surgery. Medical Physics, 2022, 49, 2914-2930.	1.6	2
26	Limited parameter denoising for low‐dose X‐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 Patterns—How Neural Networks Can Tell Us Where to "Deep Dive"Clinically. Frontiers in Medicine, 2022, 9, 850552.	1.2	12
29	Known operator learning and hybrid machine learning in medical imaging—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	Patient‐specific radiation risk‐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

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37	Ultralow‑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

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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 slotâ€scanning radiography using ultraâ€smallâ€angle tomosynthesis to conventional radiography. Medical Physics, 2021, 48, 2170-2184.	1.6	1

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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

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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 Talbot–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 online–customized (FOCUS) parallel transmission pulses: A combination of universal pulses and individual optimization. Magnetic Resonance in Medicine, 2021, 85, 3140-3153.	1.9	29

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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

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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

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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

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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
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