Andreas K Maier

List of Publications by Year
in descending order

608 papers	10,079 citations	70961 41 h-index	82410 72 g-index
685 all docs	685 docs citations	685 times ranked	11329 citing authors

#	Article	IF	Citations
1	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
2	A gentle introduction to deep learning in medical image processing. Zeitschrift Fur Medizinische Physik, 2019, 29, 86-101.	0.6	344
3	Automatic classification of defective photovoltaic module cells in electroluminescence images. Solar Energy, 2019, 185, 455-468.	2.9	250
4	PEAKS â€“ A system for the automatic evaluation of voice and speech disorders. Speech Communication, 2009, 51, 425-437.	1.6	214
5	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
6	Automatic Classification of Cancerous Tissue in Laserendomicroscopy Images of the Oral Cavity using Deep Learning. Scientific Reports, 2017, 7, 11979.	1.6	194
7	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
8	Nucleophilic Reactivities of Primary and Secondary Amines in Acetonitrile. European Journal of Organic Chemistry, 2009, 2009, 6379-6385.	1.2	153
9	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
10	Kill-painting of hypoxic tumours in charged particle therapy. Scientific Reports, 2015, 5, 17016.	1.6	124
11	TOWARD QUANTITATIVE OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY. Retina, 2016, 36, S118-S126.	1.0	114
12	Robust Non-rigid Registration Through Agent-Based Action Learning. Lecture Notes in Computer Science, 2017, , 344-352.	1.0	112
13	Learning with known operators reduces maximum error bounds. Nature Machine Intelligence, 2019, 1, 373-380.	8.3	111
14	CONRADâ€”A software framework for coneâ€beam imaging in radiology. Medical Physics, 2013, 40, 111914.	1.6	106
15	Towards More Reality in the Recognition of Emotional Speech. , 2007, , .		89
16	Helium ions for radiotherapy? Physical and biological verifications of a novel treatment modality. Medical Physics, 2016, 43, 1995-2004.	1.6	87
17	Writer Identification Using GMM Supervectors and Exemplar-SVMs. Pattern Recognition, 2017, 63, 258-267.	5.1	85
18	Robust Multiframe Super-Resolution Employing Iteratively Re-Weighted Minimization. IEEE Transactions on Computational Imaging, 2016, 2, 42-58.	2.6	81

#	Article	IF	Citations
19	Some Investigations on Robustness of Deep Learning in Limited Angle Tomography. Lecture Notes in Computer Science, 2018, , 145-153.	1.0	80
20	Classification of Breast Cancer Histology Images Using Transfer Learning. Lecture Notes in Computer Science, 2018, , 812-819.	1.0	78
21	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
22	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
23	A Comparative Error Analysis of Current Time-of-Flight Sensors. IEEE Transactions on Computational Imaging, 2016, 2, 27-41.	2.6	71
24	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
25	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
26	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
27	Optical Coherence Tomography Angiography Characteristics of Iris Melanocytic Tumors. Ophthalmology, 2017, 124, 197-204.	2.5	67
28	Unsupervised Feature Learning for Writer Identification and Writer Retrieval. , 2017, , .		66
29	Photoreceptor Layer Thickness Changes During Dark Adaptation Observed With Ultrahigh-Resolution Optical Coherence Tomography. , 2017, 58, 4632.		61
30	X-ray-transform Invariant Anatomical Landmark Detection for Pelvic Trauma Surgery. Lecture Notes in Computer Science, 2018, , 55-63.	1.0	61
31	Demographic estimates of hunterâ€“gatherers during the Last Glacial Maximum in Europe against the background of palaeoenvironmental data. Quaternary International, 2016, 425, 49-61.	0.7	55
32	Intraoperative Imaging Modalities and Compensation for Brain Shift in Tumor Resection Surgery. International Journal of Biomedical Imaging, 2017, 2017, 1-18.	3.0	55
33	ORCA-SPOT: An Automatic Killer Whale Sound Detection Toolkit Using Deep Learning. Scientific Reports, 2019, 9, 10997.	1.6	55
34	Deep Learning Computed Tomography. Lecture Notes in Computer Science, 2016, , 432-440.	1.0	54
35	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
36	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

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37	Markerâ€free motion correction in weightâ€bearing coneâ€beam CT of the knee joint. Medical Physics, 2016, 43, 1235-1248.	1.6	50
38	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
39	Adversarial and Perceptual Refinement for Compressed Sensing MRI Reconstruction. Lecture Notes in Computer Science, 2018, , 232-240.	1.0	50
40	Influence of acute hypoxia and radiation quality on cell survival. Journal of Radiation Research, 2013, 54, i23-i30.	0.8	49
41	Epipolar Consistency in Transmission Imaging. IEEE Transactions on Medical Imaging, 2015, 34, 2205-2219.	5.4	48
42	Automatic detection and analysis of photovoltaic modules in aerial infrared imagery. , 2016, , .		47
43	Next-generation imaging of the skeletal system and its blood supply. Nature Reviews Rheumatology, 2019, 15, 533-549.	3.5	46
44	Deep Generalized Max Pooling. , 2019, , .		45
45	Dynamic Iterative Reconstruction for Interventional 4-D C-Arm CT Perfusion Imaging. IEEE Transactions on Medical Imaging, 2013, 32, 1336-1348.	5.4	43
46	The Definition, Rationale, and Effects of Thresholding in OCT Angiography. Ophthalmology Retina, 2017, 1, 435-447.	1.2	43
47	Radon Exposureâ€"Therapeutic Effect and Cancer Risk. International Journal of Molecular Sciences, 2021, 22, 316.	1.8	43
48	Influence of chronic hypoxia and radiation quality on cell survival. Journal of Radiation Research, 2013, 54, i13-i22.	0.8	42
49	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
50	Offline Writer Identification Using Convolutional Neural Network Activation Features. Lecture Notes in Computer Science, 2015, , 540-552.	1.0	42
51	Technical Note: PYROâ€NN: Python reconstruction operators in neural networks. Medical Physics, 2019, 46, 5110-5115.	1.6	42
52	Automated Calculation of Alberta Stroke Program Early CT Score. Stroke, 2019, 50, 3277-3279.	1.0	42
53	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
54	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

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55	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
56	Deep learning algorithms out-perform veterinary pathologists in detecting the mitotically most active tumor region. Scientific Reports, 2020, 10, 16447.	1.6	39
57	Segmentation of photovoltaic module cells in uncalibrated electroluminescence images. Machine Vision and Applications, 2021, 32, 1.	1.7	39
58	Automated Detection of Motion Artefacts in MR Imaging Using Decision Forests. Journal of Medical Engineering, 2017, 2017, 1-9.	1.1	38
59	Weakly Supervised Segmentation of Cracks on Solar Cells Using Normalized L_p Norm. , 2019, , .		38
60	Deep Learning-Based Quantification of Pulmonary Hemosiderophages in Cytology Slides. Scientific Reports, 2020, 10, 9795.	1.6	38
61	Populations headed south? The Gravettian from a palaeodemographic point of view. Antiquity, 2017, 91, 573-588.	0.5	37
62	SkinNet: A Deep Learning Framework for Skin Lesion Segmentation. , 2018, , .		36
63	Encoding CNN Activations for Writer Recognition. , 2018, , .		36
64	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
65	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
66	Automatic dementia screening and scoring by applying deep learning on clock-drawing tests. Scientific Reports, 2020, 10, 20854.	1.6	36
67	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
68	Automatic Quantification of Speech Intelligibility of Adults with Oral Squamous Cell Carcinoma. Folia Phoniatrica Et Logopaedica, 2008, 60, 151-156.	0.5	35
69	Comparative study of deep learning models for optical coherence tomography angiography. Biomedical Optics Express, 2020, 11, 1580.	1.5	35
70	Indefinite kernels in least squares support vector machines and principal component analysis. Applied and Computational Harmonic Analysis, 2017, 43, 162-172.	1.1	34
71	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
72	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

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73	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
74	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
75	Towards intelligent robust detection of anatomical structures in incomplete volumetric data. Medical Image Analysis, 2018, 48, 203-213.	7.0	33
76	Automatic multiâ€organ segmentation in dualâ€energy CT (DECT) with dedicated 3D fully convolutional DECT networks. Medical Physics, 2020, 47, 552-562.	1.6	33
77	Threeâ€dimensional anisotropic adaptive filtering of projection data for noise reduction in cone beam CT. Medical Physics, 2011, 38, 5896-5909.	1.6	32
78	Fiducial markerâ€based correction for involuntary motion in weightâ€bearing Câ€arm CT scanning of knees. Part I. Numerical modelâ€based optimization. Medical Physics, 2013, 40, 091905.	1.6	32
79	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
80	Augmented realityâ€based feedback for technicianâ€inâ€theâ€loop Câ€arm repositioning. Healthcare Technology Letters, 2018, 5, 143-147.	1.9	32
81	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
82	SPATIAL DISTRIBUTION OF CHORIOCAPILLARIS IMPAIRMENT IN EYES WITH CHOROIDAL NEOVASCULARIZATION SECONDARY TO AGE-RELATED MACULAR DEGENERATION. Retina, 2020, 40, 428-445.	1.0	32
83	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
84	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
85	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
86	A deep learning based pipeline for optical coherence tomography angiography. Journal of Biophotonics, 2019, 12, e201900008.	1.1	31
87	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
88	Scale-Space Anisotropic Total Variation for Limited Angle Tomography. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 307-314.	2.7	29
89	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
90	Modern machine-learning can support diagnostic differentiation of central and peripheral acute vestibular disorders. Journal of Neurology, 2020, 267, 143-152.	1.8	29

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91	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
92	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
93	A Multi-task Framework for Skin Lesion Detection and Segmentation. Lecture Notes in Computer Science, 2018, , 285-293.	1.0	28
94	A Deep Learning Architecture for Limited-Angle Computed Tomography Reconstruction. Informatik Aktuell, 2017, , 92-97.	0.4	28
95	SlideRunner. Informatik Aktuell, 2018, , 309-314.	0.4	28
96	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
97	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
98	Electrophysiology Catheter Detection and Reconstruction From Two Views in Fluoroscopic Images. IEEE Transactions on Medical Imaging, 2016, 35, 567-579.	5.4	27
99	Photoluminescence for Defect Detection on Full-Sized Photovoltaic Modules. IEEE Journal of Photovoltaics, 2021, 11, 1419-1429.	1.5	27
100	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
101	The Central European Magdalenian. Vertebrate Paleobiology and Paleoanthropology, 2015, , .	0.1	26
102	Restoration of missing data in limited angle tomography based on Helgasonâ€“Ludwig consistency conditions. Biomedical Physics and Engineering Express, 2017, 3, 035015.	0.6	26
103	Quantifying the separability of data classes in neural networks. Neural Networks, 2021, 139, 278-293.	3.3	26
104	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
105	Fully automatic segmentation of left ventricular anatomy in 3-D LGE-MRI. Computerized Medical Imaging and Graphics, 2017, 59, 13-27.	3.5	25
106	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
107	The Effect of Data Augmentation on Classification of Atrial Fibrillation in Short Single-Lead ECG Signals Using Deep Neural Networks. , 2020, , .		25
108	Synthetic Image Rendering Solves Annotation Problem in Deep Learning Nanoparticle Segmentation. Small Methods, 2021, 5, e2100223.	4.6	25

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109	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
110	An in silico twin for epicardial augmentation of the failingÂheart. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3233.	1.0	24
111	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
112	A learningâ€based material decomposition pipeline for multiâ€energy xâ€ray imaging. Medical Physics, 2019, 46, 689-703.	1.6	24
113	Analysis and visualization of sleep stages based on deep neural networks. Neurobiology of Sleep and Circadian Rhythms, 2021, 10, 100064.	1.4	24
114	Improved reconstruction of phase-stepping data for Talbotâ€“Lau x-ray imaging. Journal of Medical Imaging, 2017, 4, 1.	0.8	24
115	A Survey of Sensors in Healthcare Workflow Monitoring. ACM Computing Surveys, 2019, 51, 1-37.	16.1	23
116	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
117	Interventional dualâ€energy imagingâ€”Feasibility of rapid kVâ€switching on a Câ€arm CT system. Medical Physics, 2016, 43, 5537-5546.	1.6	22
118	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
119	Spatial-temporal total variation regularization (STTVR) for 4D-CT reconstruction. Proceedings of SPIE, 2012, , .	0.8	21
120	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
121	Limited angle tomography for transmission X-ray microscopy using deep learning. Journal of Synchrotron Radiation, 2020, 27, 477-485.	1.0	21
122	Analysis of vertical and horizontal circular C-arm trajectories. Proceedings of SPIE, 2011, , .	0.8	20
123	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
124	ICDAR 2019 Competition on Image Retrieval for Historical Handwritten Documents. , 2019, , .		20
125	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
126	Weakly Supervised Deep Learning-Based Optical Coherence Tomography Angiography. IEEE Transactions on Medical Imaging, 2021, 40, 688-698.	5.4	20

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127	Data Consistent Artifact Reduction for Limited Angle Tomography with Deep Learning Prior. Lecture Notes in Computer Science, 2019, , 101-112.	1.0	20
128	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
129	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
130	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
131	Analyzing Relative Blood Flow Speeds in Choroidal Neovascularization Using Variable Interscan Time Analysis OCT Angiography. Ophthalmology Retina, 2018, 2, 306-319.	1.2	19
132	Fully Automated 3D Cardiac MRI Localisation and Segmentation Using Deep Neural Networks. Journal of Imaging, 2020, 6, 65.	1.7	19
133	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
134	EXACT: a collaboration toolset for algorithm-aided annotation of images with annotation version control. Scientific Reports, 2021, 11, 4343.	1.6	19
135	Auditory perceptible landmarks in mobile navigation. , 2007, , .		18
136	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
137	Approximate truncation robust computed tomographyâ€"ATRACT. Physics in Medicine and Biology, 2013, 58, 6133-6148.	1.6	18
138	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
139	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
140	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
141	Robust Multi-scale Anatomical Landmark Detection in Incomplete 3D-CT Data. Lecture Notes in Computer Science, 2017, , 194-202.	1.0	18
142	Precision Learning: Towards Use of Known Operators in Neural Networks. , 2018, , .		18
143	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
144	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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145	Will We Ever Have Conscious Machines?. Frontiers in Computational Neuroscience, 2020, 14, 556544.	1.2	18
146	Robust classification from noisy labels: Integrating additional knowledge for chest radiography abnormality assessment. Medical Image Analysis, 2021, 72, 102087.	7.0	18
147	Probe-based confocal laser endomicroscopy in detecting malignant lesions of vocal folds. Acta Otorhinolaryngologica Italica, 2019, 39, 389-395.	0.7	18
148	Computer-assisted mitotic count using a deep learningâ€“based algorithm improves interobserver reproducibility and accuracy. Veterinary Pathology, 2022, 59, 211-226.	0.8	18
149	Consistencyâ€based respiratory motion estimation in rotational angiography. Medical Physics, 2017, 44, e113-e124.	1.6	17
150	Freeâ€breathing fat and R₂* quantification in the liver using a stackâ€ofâ€stars multiâ€echo acquisition with respiratoryâ€resolved modelâ€based reconstruction. Magnetic Resonance in Medicine, 2020, 84, 2592-2605.	1.9	17
151	Multi-task Localization and Segmentation for X-Ray Guided Planning in Knee Surgery. Lecture Notes in Computer Science, 2019, , 622-630.	1.0	17
152	Intrinsic Noise Improves Speech Recognition in a Computational Model of the Auditory Pathway. Frontiers in Neuroscience, 0, 16, .	1.4	17
153	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
154	Deformable respiratory motion correction for hepatic rotational angiography. Computerized Medical Imaging and Graphics, 2018, 66, 82-89.	3.5	16
155	NLO and off-shell effects in top quark mass determinations. Journal of High Energy Physics, 2018, 2018, 1.	1.6	16
156	Physicsâ€driven learning of xâ€ray skin dose distribution in interventional procedures. Medical Physics, 2019, 46, 4654-4665.	1.6	16
157	A combined experimental and theoretical study of radon solubility in fat and water. Scientific Reports, 2019, 9, 10768.	1.6	16
158	Multi-Modal Deep Guided Filtering for Comprehensible Medical Image Processing. IEEE Transactions on Medical Imaging, 2020, 39, 1703-1711.	5.4	16
159	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
160	A disease networkâ€based deep learning approach for characterizing melanoma. International Journal of Cancer, 2022, 150, 1029-1044.	2.3	16
161	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
162	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

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163	Region-of-interest reconstruction on medical C-arms with the ATRACT algorithm. Proceedings of SPIE, 2012, , .	0.8	15
164	Comparison of Different Approaches for Measuring Tibial Cartilage Thickness. Journal of Integrative Bioinformatics, 2017, 14, .	1.0	15
165	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
166	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
167	Beyond the Alps and Tatra Mountainsâ€"the 20â€"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
168	Data Extrapolation From Learned Prior Images for Truncation Correction in Computed Tomography. IEEE Transactions on Medical Imaging, 2021, 40, 3042-3053.	5.4	15
169	DEDDIAG, a domestic electricity demand dataset of individual appliances in Germany. Scientific Data, 2021, 8, 176.	2.4	15
170	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
171	Frangi-Net. Informatik Aktuell, 2018, , 341-346.	0.4	15
172	Recognizing Characters in Art History Using Deep Learning. , 2019, , .		15
173	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
174	A New Approach to the Evaluation of Forming Limits in Sheet Metal Forming. Key Engineering Materials, 2015, 639, 333-338.	0.4	14
175	<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
176	Accurate laser scanner to camera calibration with application to range sensor evaluation. IPSJ Transactions on Computer Vision and Applications, 2017, 9, .	4.4	14
177	Higgs boson plus dijets: higher order corrections. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
178	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
179	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
180	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

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181	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
182	Advanced neural networks for classification of MRI in psoriatic arthritis, seronegative, and seropositive rheumatoid arthritis. Rheumatology, 2022, 61, 4945-4951.	0.9	14
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