Atsushi Teramoto

List of Publications by Year
in descending order

48 papers	1,068 citations	623188 14 h-index	414034 32 g-index
51 all docs	51 docs citations	51 times ranked	1243 citing authors

#	Article	IF	Citations
1	Automated detection of pulmonary nodules in PET/CT images: Ensemble false‐positive reduction using a convolutional neural network technique. Medical Physics, 2016, 43, 2821-2827.	1.6	190
2	Automated Classification of Lung Cancer Types from Cytological Images Using Deep Convolutional Neural Networks. BioMed Research International, 2017, 2017, 1-6.	0.9	160
3	Fast lung nodule detection in chest CT images using cylindrical nodule-enhancement filter. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 193-205.	1.7	92
4	Dynamic PET Image Denoising Using Deep Convolutional Neural Networks Without Prior Training Datasets. IEEE Access, 2019, 7, 96594-96603.	2.6	87
5	Automated classification of benign and malignant cells from lung cytological images using deep convolutional neural network. Informatics in Medicine Unlocked, 2019, 16, 100205.	1.9	57
6	Automated Pulmonary Nodule Classification in Computed Tomography Images Using a Deep Convolutional Neural Network Trained by Generative Adversarial Networks. BioMed Research International, 2019, 2019, 1-9.	0.9	54
7	Multiplanar analysis for pulmonary nodule classification in CT images using deep convolutional neural network and generative adversarial networks. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 173-178.	1.7	51
8	Deep learning approach to classification of lung cytological images: Two-step training using actual and synthesized images by progressive growing of generative adversarial networks. PLoS ONE, 2020, 15, e0229951.	1.1	48
9	Automated Detection and Segmentation of Early Gastric Cancer from Endoscopic Images Using Mask R-CNN. Applied Sciences (Switzerland), 2020, 10, 3842.	1.3	38
10	Hybrid method for the detection of pulmonary nodules using positron emission tomography/computed tomography: a preliminary study. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 59-69.	1.7	26
11	A method for the automated classification of benign and malignant masses on digital breast tomosynthesis images using machine learning and radiomic features. Radiological Physics and Technology, 2020, 13, 27-36.	1.0	25
12	Synthetic CT image generation of shape-controlled lung cancer using semi-conditional InfoGAN and its applicability for type classification. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 241-251.	1.7	23
13	Kinematics and Laxity of the Ankle Joint in Anatomic and Nonanatomic Anterior Talofibular Ligament Repair: A Biomechanical Cadaveric Study. American Journal of Sports Medicine, 2019, 47, 667-673.	1.9	19
14	Compressed-Sensing Magnetic Resonance Image Reconstruction Using an Iterative Convolutional Neural Network Approach. Applied Sciences (Switzerland), 2020, 10, 1902.	1.3	16
15	Automated Classification of Pulmonary Nodules through a Retrospective Analysis of Conventional CT and Two-phase PET Images in Patients Undergoing Biopsy. Asia Oceania Journal of Nuclear Medicine and Biology, 2019, 7, 29-37.	0.1	15
16	Investigation of pulmonary nodule classification using multi-scale residual network enhanced with 3DGAN-synthesized volumes. Radiological Physics and Technology, 2020, 13, 160-169.	1.0	14
17	Bone suppression for chest X-ray image using a convolutional neural filter. Physical and Engineering Sciences in Medicine, 2020, 43, 97-108.	1.3	13
18	Weakly supervised learning for classification of lung cytological images using attention-based multiple instance learning. Scientific Reports, 2021, 11, 20317.	1.6	13

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19	Automated Detection of Architectural Distortion Using Improved Adaptive Gabor Filter. Lecture Notes in Computer Science, 2014, , 606-611.	1.0	10
20	Effective stretching positions for the posterior shoulder capsule as determined by shear wave elastography. Journal of Shoulder and Elbow Surgery, 2021, 30, 1186-1195.	1.2	10
21	Decision Support System for Lung Cancer Using PET/CT and Microscopic Images. Advances in Experimental Medicine and Biology, 2020, 1213, 73-94.	0.8	10
22	Automated Lung Nodule Detection Using Positron Emission Tomography/Computed Tomography. Intelligent Systems Reference Library, 2018, , 87-110.	1.0	9
23	Automated detection scheme for acute myocardial infarction using convolutional neural network and long short-term memory. PLoS ONE, 2022, 17, e0264002.	1.1	9
24	Effect of Initial Graft Tension During Calcaneofibular Ligament Reconstruction on Ankle Kinematics and Laxity. American Journal of Sports Medicine, 2018, 46, 2935-2941.	1.9	8
25	Deep learning using preoperative magnetic resonance imaging information to predict early recovery of urinary continence after robot–assisted radical prostatectomy. International Journal of Urology, 2020, 27, 922-928.	0.5	8
26	Sex- and age-related variations in the three-dimensional orientations and curvatures of the articular surfaces of the human talus. Anatomical Science International, 2021, 96, 258-264.	0.5	7
27	Automated segmentation and detection of increased uptake regions in bone scintigraphy using SPECT/CT images. Annals of Nuclear Medicine, 2018, 32, 182-190.	1.2	6
28	A complementary scheme for automated detection of high-uptake regions on dedicated breast PET and whole-body PET/CT. Radiological Physics and Technology, 2019, 12, 260-267.	1.0	6
29	Virtual digital subtraction angiography using multizone patch-based U-Net. Physical and Engineering Sciences in Medicine, 2020, 43, 1305-1315.	1.3	6
30	Development of a Fully Automated Glioma-Grading Pipeline Using Post-Contrast T1-Weighted Images Combined with Cloud-Based 3D Convolutional Neural Network. Applied Sciences (Switzerland), 2021, 11, 5118.	1.3	5
31	Mutual stain conversion between Giemsa and Papanicolaou in cytological images using cycle generative adversarial network. Heliyon, 2021, 7, e06331.	1.4	4
32	Pulmonary nodule detection in PET/CT images: improved approach using combined nodule detection and hybrid FP reduction. , 2012, , .		3
33	Automated detection of lung tumors in PET/CT images using active contour filter. , 2015, , .		3
34	Automated Detection of Gastric Cancer by Retrospective Endoscopic Image Dataset Using U-Net R-CNN. Applied Sciences (Switzerland), 2021, 11, 11275.	1.3	3
35	Automated Extraction of Cerebral Infarction Region in Head MR Image Using Pseudo Cerebral Infarction Image by CycleGAN. Applied Sciences (Switzerland), 2022, 12, 489.	1.3	3
36	Hybrid CAD scheme for lung nodule detection in PET/CT images. Proceedings of SPIE, 2011, , .	0.8	2

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37	Development of quality control system for flat-panel detectors. Radiological Physics and Technology, 2011, 4, 164-172.	1.0	2
38	Geometric distortion in magnetic resonance imaging systems assessed using an open-source plugin for scientific image analysis. Radiological Physics and Technology, 2018, 11, 467-472.	1.0	2
39	Flexor hallucis longus tendinous slips and the relationship to toe flexor strength. Foot and Ankle Surgery, 2021, 27, 851-854.	0.8	2
40	Automated classification of increased uptake regions in bone single-photon emission computed tomography/computed tomography images using three-dimensional deep convolutional neural network. Nuclear Medicine Communications, 2021, Publish Ahead of Print, 877-883.	0.5	2
41	Estimating subjective evaluation of low-contrast resolution using convolutional neural networks. Physical and Engineering Sciences in Medicine, 2021, 44, 1285-1296.	1.3	2
42	Dose reduction technique in diagnostic X-ray computed tomography by use of 6-channel multileaf collimators. Radiological Physics and Technology, 2017, 10, 60-67.	1.0	1
43	Hybrid Scheme for Automated Classification of Pulmonary Nodules Using PET/CT Images and Patient Information. Applied Sciences (Switzerland), 2020, 10, 4225.	1.3	1
44	Development of Pathological Diagnosis Support System Using Micro-computed Tomography. Acta Histochemica Et Cytochemica, 2021, 54, 49-56.	0.8	1
45	Prognosis Prediction of Lung Cancer Patients Using CT Images: Feature Extraction by Convolutional Neural Network and Prediction by Machine Learning. Japanese Journal of Radiological Technology, 2022, , .	0.0	1
46	Two-versus three-dimensional regions of interest for quantifying SPECT-CT images. Physical and Engineering Sciences in Medicine, 2021, 44, 365-375.	1.3	0
47	Function Integrated Diagnostic Assistance Based on MCA Models. , 2022, , 67-77.		0
48	Toe flexion movement with tendon excursion based on anatomical variation: A cadaver study. Journal of Orthopaedics, Trauma and Rehabilitation, 2022, 29, 221049172210921.	0.1	0