

# Namkug Kim

## List of Publications by Year in descending order

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312  
papers

10,166  
citations

31976

53  
h-index

53230

85  
g-index

340  
all docs

340  
docs citations

340  
times ranked

13182  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully automated identification of cephalometric landmarks for upper airway assessment using cascaded convolutional neural networks. <i>European Journal of Orthodontics</i> , 2022, 44, 66-77.	2.4	8
2	Letter to the Editor: The Impact of Neoadjuvant Chemotherapy on Margin Re-excision in Breast-conserving Surgery. <i>World Journal of Surgery</i> , 2022, 46, 288-289.	1.6	0
3	Content-based Image Retrieval by Using Deep Learning for Interstitial Lung Disease Diagnosis with Chest CT. <i>Radiology</i> , 2022, 302, 187-197.	7.3	56
4	Accuracy of one-step automated orthodontic diagnosis model using a convolutional neural network and lateral cephalogram images with different qualities obtained from nationwide multi-hospitals. <i>Korean Journal of Orthodontics</i> , 2022, 52, 3-19.	2.3	6
5	Accuracy of auto-identification of the posteroanterior cephalometric landmarks using cascade convolution neural network algorithm and cephalometric images of different quality from nationwide multiple centers. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2022, 161, e361-e371.	1.7	6
6	Bone suppression on pediatric chest radiographs via a deep learning-based cascade model. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 215, 106627.	4.7	5
7	Development of an automatic modeling method for patient-specific aortic graft reconstruction guide in thoracoabdominal aortic repair. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 215, 106647.	4.7	1
8	Research Highlight: Use of Generative Images Created with Artificial Intelligence for Brain Tumor Imaging. <i>Korean Journal of Radiology</i> , 2022, 23, 500.	3.4	5
9	Diagnosis of Scoliosis Using Chest Radiographs with a Semi-Supervised Generative Adversarial Network. <i>Journal of the Korean Society of Radiology</i> , 2022, 83, 1298.	0.2	2
10	Surgery-First Orthognathic Approach to Correct Facial Asymmetry: Artificial Intelligence-Based Cephalometric Analysis. <i>Plastic and Reconstructive Surgery</i> , 2022, 149, 496e-499e.	1.4	12
11	Enhancing deep learning based classifiers with inpainting anatomical side markers (L/R markers) for multi-center trials. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 220, 106705.	4.7	5
12	Enhancement of evaluating flatfoot on a weight-bearing lateral radiograph of the foot with U-Net based semantic segmentation on the long axis of tarsal and metatarsal bones in an active learning manner. <i>Computers in Biology and Medicine</i> , 2022, 145, 105400.	7.0	5
13	Rehearsal simulation to determine the size of device for left atrial appendage occlusion using patient-specific 3D-printed phantoms. <i>Scientific Reports</i> , 2022, 12, 7746.	3.3	3
14	Accuracy of artificial intelligence-assisted landmark identification in serial lateral cephalograms of Class III patients who underwent orthodontic treatment and two-jaw orthognathic surgery. <i>Korean Journal of Orthodontics</i> , 2022, 52, 287-297.	2.3	10
15	Tumor localization for breast cancer patients receiving neoadjuvant chemotherapy. <i>Breast Cancer Research and Treatment</i> , 2021, 185, 531-532.	2.5	1
16	Deep chest X-ray: Detection and classification of lesions based on deep convolutional neural networks. <i>International Journal of Imaging Systems and Technology</i> , 2021, 31, 72-81.	4.1	5
17	Diffusion and perfusion MRI radiomics obtained from deep learning segmentation provides reproducible and comparable diagnostic model to human in post-treatment glioblastoma. <i>European Radiology</i> , 2021, 31, 3127-3137.	4.5	26
18	Breast-Conserving Surgery after Neoadjuvant Chemotherapy Using a Three-Dimensional-Printed Surgical Guide Based on Supine Magnetic Resonance Imaging: A Case Report. <i>Journal of Breast Cancer</i> , 2021, 24, 235.	1.9	3

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19	Breast-conserving surgery with 3D-printed surgical guide: a single-center, prospective clinical study. <i>Scientific Reports</i> , 2021, 11, 2252.	3.3	10
20	Usefulness of 3-Dimensional-Printed Breast Surgical Guides for Undetectable Ductal Carcinoma In Situ on Ultrasonography: A Report of 2 Cases. <i>Journal of Breast Cancer</i> , 2021, 24, 349-355.	1.9	3
21	Content-Based Image Retrieval of Chest CT with Convolutional Neural Network for Diffuse Interstitial Lung Disease: Performance Assessment in Three Major Idiopathic Interstitial Pneumonias. <i>Korean Journal of Radiology</i> , 2021, 22, 281.	3.4	18
22	New Method for Combined Quantitative Assessment of Air-Trapping and Emphysema on Chest Computed Tomography in Chronic Obstructive Pulmonary Disease: Comparison with Parametric Response Mapping. <i>Korean Journal of Radiology</i> , 2021, 22, 1719.	3.4	8
23	Usefulness of 3D-surgical guides in breast conserving surgery after neoadjuvant treatment. <i>Scientific Reports</i> , 2021, 11, 3376.	3.3	7
24	Machine learning approach for differentiating cytomegalovirus esophagitis from herpes simplex virus esophagitis. <i>Scientific Reports</i> , 2021, 11, 3672.	3.3	8
25	Development of patient specific, realistic, and reusable video assisted thoracoscopic surgery simulator using 3D printing and pediatric computed tomography images. <i>Scientific Reports</i> , 2021, 11, 6191.	3.3	9
26	Deep learning-based algorithm to detect primary hepatic malignancy in multiphase CT of patients at high risk for HCC. <i>European Radiology</i> , 2021, 31, 7047-7057.	4.5	19
27	Case Report: A 3D-Printed Surgical Guide for Breast-Conserving Surgery After Neoadjuvant Chemotherapy. <i>Frontiers in Oncology</i> , 2021, 11, 633302.	2.8	3
28	Prediction of Neurologically Intact Survival in Cardiac Arrest Patients without Pre-Hospital Return of Spontaneous Circulation: Machine Learning Approach. <i>Journal of Clinical Medicine</i> , 2021, 10, 1089.	2.4	5
29	Realistic High-Resolution Body Computed Tomography Image Synthesis by Using Progressive Growing Generative Adversarial Network: Visual Turing Test. <i>JMIR Medical Informatics</i> , 2021, 9, e23328.	2.6	16
30	Comparing intra-observer variation and external variations of a fully automated cephalometric analysis with a cascade convolutional neural net. <i>Scientific Reports</i> , 2021, 11, 7925.	3.3	11
31	Evaluation of skin cancer resection guide using hyper-realistic in-vitro phantom fabricated by 3D printing. <i>Scientific Reports</i> , 2021, 11, 8935.	3.3	7
32	Radiomics approach for survival prediction in chronic obstructive pulmonary disease. <i>European Radiology</i> , 2021, 31, 7316-7324.	4.5	11
33	Fully automated estimation of arch forms in cone-beam CT with cubic B-spline approximation: Evaluation of digital dental models with missing teeth. <i>Computers in Biology and Medicine</i> , 2021, 131, 104256.	7.0	3
34	A feasibility study of a portable intraoperative specimen imaging X-ray system based on carbon nanotube field emitters. <i>International Journal of Imaging Systems and Technology</i> , 2021, 31, 1128-1135.	4.1	3
35	Developmental features and predicting airway failure risk in critically ill children with mandibular hypoplasia using 3D computational tomographic analysis. <i>Scientific Reports</i> , 2021, 11, 9881.	3.3	2
36	Generative adversarial network for glioblastoma ensures morphologic variations and improves diagnostic model for isocitrate dehydrogenase mutant type. <i>Scientific Reports</i> , 2021, 11, 9912.	3.3	7

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37	Pre-sewn Multi-branched Aortic Graft and 3D-Printing Guidance for Crawford Extent II or III Thoracoabdominal Aortic Aneurysm Repair. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2021, , .	0.6	7
38	Accuracy of automated identification of lateral cephalometric landmarks using cascade convolutional neural networks on lateral cephalograms from nationwide multi-centres. <i>Orthodontics and Craniofacial Research</i> , 2021, 24, 59-67.	2.8	22
39	Incremental Value of 3D Printing in the Preoperative Planning of Complex Congenital Heart Disease Surgery. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 1265-1270.	5.3	11
40	Automatic tip detection of surgical instruments in biportal endoscopic spine surgery. <i>Computers in Biology and Medicine</i> , 2021, 133, 104384.	7.0	17
41	Use of artificial intelligence to predict outcomes of nonextraction treatment of Class II malocclusions. <i>Seminars in Orthodontics</i> , 2021, 27, 87-95.	1.4	8
42	Realistic high-resolution lateral cephalometric radiography generated by progressive growing generative adversarial network and quality evaluations. <i>Scientific Reports</i> , 2021, 11, 12563.	3.3	6
43	Deep radiomics-based survival prediction in patients with chronic obstructive pulmonary disease. <i>Scientific Reports</i> , 2021, 11, 15144.	3.3	14
44	Utilizing patient-specific 3D printed guides for graft reconstruction in thoracoabdominal aortic repair. <i>Scientific Reports</i> , 2021, 11, 18027.	3.3	3
45	Video recognition of simple mastoidectomy using convolutional neural networks: Detection and segmentation of surgical tools and anatomical regions. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106251.	4.7	6
46	Optimal number of strong labels for curriculum learning with convolutional neural network to classify pulmonary abnormalities in chest radiographs. <i>Computers in Biology and Medicine</i> , 2021, 136, 104750.	7.0	8
47	Accuracy evaluation of a 3D printing surgical guide for breast-conserving surgery using a realistic breast phantom. <i>Computers in Biology and Medicine</i> , 2021, 137, 104784.	7.0	8
48	Prediction of osteoporosis from simple hip radiography using deep learning algorithm. <i>Scientific Reports</i> , 2021, 11, 19997.	3.3	23
49	An Open Medical Platform to Share Source Code and Various Pre-Trained Weights for Models to Use in Deep Learning Research. <i>Korean Journal of Radiology</i> , 2021, 22, 2073.	3.4	5
50	Early Identification of Resuscitated Patients with a Significant Coronary Disease in Out-of-Hospital Cardiac Arrest Survivors without ST-Segment Elevation. <i>Journal of Clinical Medicine</i> , 2021, 10, 5688.	2.4	1
51	Fully Automated Lung Lobe Segmentation in Volumetric Chest CT with 3D U-Net: Validation with Intra- and Extra-Datasets. <i>Journal of Digital Imaging</i> , 2020, 33, 221-230.	2.9	61
52	Fully automated 3D segmentation and separation of multiple cervical vertebrae in CT images using a 2D convolutional neural network. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 184, 105119.	4.7	27
53	Fully Automated and Real-Time Volumetric Measurement of Infarct Core and Penumbra in Diffusion- and Perfusion-Weighted MRI of Patients with Hyper-Acute Stroke. <i>Journal of Digital Imaging</i> , 2020, 33, 262-272.	2.9	15
54	Usefulness of a 3D-Printed Thyroid Cancer Phantom for Clinician to Patient Communication. <i>World Journal of Surgery</i> , 2020, 44, 788-794.	1.6	16

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55	Development of a CT imaging phantom of anthropomorphic lung using fused deposition modeling 3D printing. <i>Medicine (United States)</i> , 2020, 99, e18617.	1.0	24
56	Endoscopic diagnosis and treatment planning for colorectal polyps using a deep-learning model. <i>Scientific Reports</i> , 2020, 10, 30.	3.3	68
57	Accuracy of a simplified 3D-printed implant surgical guide. <i>Journal of Prosthetic Dentistry</i> , 2020, 124, 195-201.e2.	2.8	61
58	Oropharyngeal squamous cell carcinoma: radiomic machine-learning classifiers from multiparametric MR images for determination of HPV infection status. <i>Scientific Reports</i> , 2020, 10, 17525.	3.3	36
59	Fully automated segmentation on brain ischemic and white matter hyperintensities lesions using semantic segmentation networks with squeeze-and-excitation blocks in MRI. <i>Informatics in Medicine Unlocked</i> , 2020, 21, 100440.	3.4	2
60	Accuracies of 3D printers with hard and soft materials. <i>Rapid Prototyping Journal</i> , 2020, 26, 1227-1235.	3.2	7
61	Accuracy of 3D printed guide for orbital implant. <i>Rapid Prototyping Journal</i> , 2020, 26, 1363-1370.	3.2	2
62	Patient-specific and hyper-realistic phantom for an intubation simulator with a replaceable difficult airway of a toddler using 3D printing. <i>Scientific Reports</i> , 2020, 10, 10631.	3.3	16
63	Mimicking the Mechanical Properties of Aortic Tissue with Pattern-Embedded 3D Printing for a Realistic Phantom. <i>Materials</i> , 2020, 13, 5042.	2.9	12
64	Magnetic resonance imaging based 3-dimensional printed breast surgical guide for breast-conserving surgery in ductal carcinoma in situ: a clinical trial. <i>Scientific Reports</i> , 2020, 10, 18534.	3.3	8
65	Reproducibility of abnormality detection on chest radiographs using convolutional neural network in paired radiographs obtained within a short-term interval. <i>Scientific Reports</i> , 2020, 10, 17417.	3.3	9
66	Association between long-term exposure to air pollutants and cardiopulmonary mortality rates in South Korea. <i>BMC Public Health</i> , 2020, 20, 1402.	2.9	17
67	Development of machine learning-based clinical decision support system for hepatocellular carcinoma. <i>Scientific Reports</i> , 2020, 10, 14855.	3.3	24
68	Deep-learning-based image quality enhancement of compressed sensing magnetic resonance imaging of vessel wall: comparison of self-supervised and unsupervised approaches. <i>Scientific Reports</i> , 2020, 10, 13950.	3.3	30
69	Prediction of Adverse Events in Stable Non-Variceal Gastrointestinal Bleeding Using Machine Learning. <i>Journal of Clinical Medicine</i> , 2020, 9, 2603.	2.4	12
70	Modelling and manufacturing of 3D-printed, patient-specific, and anthropomorphic gastric phantoms: a pilot study. <i>Scientific Reports</i> , 2020, 10, 18976.	3.3	10
71	CT kernel conversions using convolutional neural net for super-resolution with simplified squeeze-and-excitation blocks and progressive learning among smooth and sharp kernels. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 196, 105615.	4.7	7
72	Myocardial territory segmentation on coronary computed tomography angiography images: Comparison between projection and non-projection methods in a pig model. <i>Informatics in Medicine Unlocked</i> , 2020, 19, 100320.	3.4	1

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73	Maximum emergency department overcrowding is correlated with occurrence of unexpected cardiac arrest. <i>Critical Care</i> , 2020, 24, 305.	5.8	16
74	Breast tumor movements analysis using MRI scans in prone and supine positions. <i>Scientific Reports</i> , 2020, 10, 4858.	3.3	11
75	Impact of air pollution on breast cancer incidence and mortality: a nationwide analysis in South Korea. <i>Scientific Reports</i> , 2020, 10, 5392.	3.3	38
76	Enhancement of surgical hand gesture recognition using a capsule network for a contactless interface in the operating room. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 190, 105385.	4.7	26
77	Active learning for accuracy enhancement of semantic segmentation with CNN-corrected label curations: Evaluation on kidney segmentation in abdominal CT. <i>Scientific Reports</i> , 2020, 10, 366.	3.3	27
78	Machine Learning Approach to Identify Stroke Within 4.5 Hours. <i>Stroke</i> , 2020, 51, 860-866.	2.0	116
79	Stereotaxic endoscopy for the ocular imaging of awake, freely moving animal models. <i>Journal of Biophotonics</i> , 2020, 13, e201960188.	2.3	2
80	Optimal matrix size of chest radiographs for computer-aided detection on lung nodule or mass with deep learning. <i>European Radiology</i> , 2020, 30, 4943-4951.	4.5	17
81	Automated detection algorithm for C4d immunostaining showed comparable diagnostic performance to pathologists in renal allograft biopsy. <i>Modern Pathology</i> , 2020, 33, 1626-1634.	5.5	5
82	Real-time detection of colon polyps during colonoscopy using deep learning: systematic validation with four independent datasets. <i>Scientific Reports</i> , 2020, 10, 8379.	3.3	57
83	Effectiveness of transfer learning for enhancing tumor classification with a convolutional neural network on frozen sections. <i>Scientific Reports</i> , 2020, 10, 21899.	3.3	42
84	Assessment of the Robustness of Convolutional Neural Networks in Labeling Noise by Using Chest X-Ray Images From Multiple Centers. <i>JMIR Medical Informatics</i> , 2020, 8, e18089.	2.6	11
85	Artificial Intelligence in Health Care: Current Applications and Issues. <i>Journal of Korean Medical Science</i> , 2020, 35, e379.	2.5	46
86	Quantitative Vertebral Bone Density Seen on Chest CT in Chronic Obstructive Pulmonary Disease Patients: Association with Mortality in the Korean Obstructive Lung Disease Cohort. <i>Korean Journal of Radiology</i> , 2020, 21, 880.	3.4	6
87	Big Data-Driven Approach for Health Inequalities in Foreign Patients with Injuries Visiting Emergency Rooms. <i>Healthcare Informatics Research</i> , 2020, 26, 34.	1.9	1
88	Challenge for Diagnostic Assessment of Deep Learning Algorithm for Metastases Classification in Sentinel Lymph Nodes on Frozen Tissue Section Digital Slides in Women with Breast Cancer. <i>Cancer Research and Treatment</i> , 2020, 52, 1103-1111.	3.0	4
89	Visual and Quantitative Assessments of Regional Xenon-Ventilation Using Dual-Energy CT in Asthma-Chronic Obstructive Pulmonary Disease Overlap Syndrome: A Comparison with Chronic Obstructive Pulmonary Disease. <i>Korean Journal of Radiology</i> , 2020, 21, 1104.	3.4	10
90	To What Degree Has Artificial Intelligence Developed for Diagnosis of Upper Gastrointestinal Cancer?. <i>The Korean Journal of Helicobacter and Upper Gastrointestinal Research</i> , 2020, 20, 253-255.	0.4	0

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91	Opportunistic Osteoporosis Screening Using Chest Radiographs With Deep Learning: Development and External Validation With a Cohort Dataset. <i>Journal of Bone and Mineral Research</i> , 2020, 37, 369-377.	2.8	24
92	Low morphometric complexity of emphysematous lesions predicts survival in chronic obstructive pulmonary disease patients. <i>European Radiology</i> , 2019, 29, 176-185.	4.5	4
93	Effects of emphysema on physiological and prognostic characteristics of lung function in idiopathic pulmonary fibrosis. <i>Respirology</i> , 2019, 24, 55-62.	2.3	24
94	Lung Segmentation on HRCT and Volumetric CT for Diffuse Interstitial Lung Disease Using Deep Convolutional Neural Networks. <i>Journal of Digital Imaging</i> , 2019, 32, 1019-1026.	2.9	79
95	MRI-based 3D-printed surgical guides for breast cancer patients who received neoadjuvant chemotherapy. <i>Scientific Reports</i> , 2019, 9, 11991.	3.3	17
96	Application of 3-D Printed Kidney Model in Partial Nephrectomy for Predicting Surgical Outcomes: A Feasibility Study. <i>Clinical Genitourinary Cancer</i> , 2019, 17, e878-e884.	1.9	25
97	A Curriculum Learning Strategy to Enhance the Accuracy of Classification of Various Lesions in Chest-PA X-ray Screening for Pulmonary Abnormalities. <i>Scientific Reports</i> , 2019, 9, 15352.	3.3	12
98	Development of a personalized and realistic educational thyroid cancer phantom based on CT images: An evaluation of accuracy between three different 3D printers. <i>Computers in Biology and Medicine</i> , 2019, 113, 103393.	7.0	21
99	&lt;p&gt;Assessment Of Changes In Regional Xenon-Ventilation, Perfusion, And Ventilation-Perfusion Mismatch Using Dual-Energy Computed Tomography After Pharmacological Treatment In Patients With Chronic Obstructive Pulmonary Disease: Visual And Quantitative Analysis&lt;/p&gt;. <i>International Journal of COPD</i> , 2019, Volume 14, 2195-2203.	2.3	8
100	Prediction of Treatment Response in Patients with Chronic Obstructive Pulmonary Disease by Determination of Airway Dimensions with Baseline Computed Tomography. <i>Korean Journal of Radiology</i> , 2019, 20, 304.	3.4	8
101	CT Image Conversion among Different Reconstruction Kernels without a Sinogram by Using a Convolutional Neural Network. <i>Korean Journal of Radiology</i> , 2019, 20, 295.	3.4	30
102	A Review of Three-Dimensional Printing Technology for Medical Applications. <i>Journal of the Korean Society of Radiology</i> , 2019, 80, 213.	0.2	3
103	Quantification of Hemodynamic Parameters Using Four-Dimensional Flow MRI. <i>Journal of the Korean Society of Radiology</i> , 2019, 80, 239.	0.2	3
104	Prediction of Pulmonary Function in Patients with Chronic Obstructive Pulmonary Disease: Correlation with Quantitative CT Parameters. <i>Korean Journal of Radiology</i> , 2019, 20, 683.	3.4	29
105	Validation of three-dimensional echocardiographic principal strain analysis for assessing left ventricular contractility: An animal study. <i>Medical Physics</i> , 2019, 46, 2137-2144.	3.0	6
106	A Fully Automated System Using A Convolutional Neural Network to Predict Renal Allograft Rejection: Extra-validation with Giga-pixel Immunostained Slides. <i>Scientific Reports</i> , 2019, 9, 5123.	3.3	15
107	Application of deep learning-based computer-aided detection system: detecting pneumothorax on chest radiograph after biopsy. <i>European Radiology</i> , 2019, 29, 5341-5348.	4.5	58
108	Radiomic features and multilayer perceptron network classifier: a robust MRI classification strategy for distinguishing glioblastoma from primary central nervous system lymphoma. <i>Scientific Reports</i> , 2019, 9, 5746.	3.3	73



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109	Semi-automatic and robust determination of dental arch form in dental cone-beam CT with B-spline approximation. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 172, 95-101.	4.7	12
110	Fully Automatic Segmentation of Acute Ischemic Lesions on Diffusion-Weighted Imaging Using Convolutional Neural Networks: Comparison with Conventional Algorithms. <i>Korean Journal of Radiology</i> , 2019, 20, 1275.	3.4	40
111	Age and sex subgroups vulnerable to copycat suicide: evaluation of nationwide data in South Korea. <i>Scientific Reports</i> , 2019, 9, 17253.	3.3	8
112	Deep Learning Applications in Chest Radiography and Computed Tomography. <i>Journal of Thoracic Imaging</i> , 2019, 34, 75-85.	1.5	90
113	Short-term Reproducibility of Pulmonary Nodule and Mass Detection in Chest Radiographs: Comparison among Radiologists and Four Different Computer-Aided Detections with Convolutional Neural Net. <i>Scientific Reports</i> , 2019, 9, 18738.	3.3	18
114	Hybrid Airway Segmentation Using Multi-Scale Tubular Structure Filters and Texture Analysis on 3D Chest CT Scans. <i>Journal of Digital Imaging</i> , 2019, 32, 779-792.	2.9	7
115	Accuracy evaluation of blood flow distribution in the Fontan circulation: effects of resolution and velocity noise. <i>Journal of Visualization</i> , 2019, 22, 245-257.	1.8	3
116	Improvement of fully automated airway segmentation on volumetric computed tomographic images using a 2.5 dimensional convolutional neural net. <i>Medical Image Analysis</i> , 2019, 51, 13-20.	11.6	75
117	Impact of Subtended Myocardial Mass Assessed by Coronary Computed Tomographic Angiography-Based Myocardial Segmentation. <i>American Journal of Cardiology</i> , 2019, 123, 757-763.	1.6	12
118	3D-Printing-Based Open Repair of Extensive Thoracoabdominal Aorta in Severe Scoliosis. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2019, 31, 61-63.	0.6	12
119	Incremental Value of Subtended Myocardial Mass for Identifying FFR-Verified Ischemia Using Quantitative ACT Angiography. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 707-717.	5.3	26
120	Deep Learning in Medical Imaging. <i>Neurospine</i> , 2019, 16, 657-668.	2.9	186
121	Clinical Utility of Quantitative CT Analysis for Fissure Completeness in Bronchoscopic Lung Volume Reduction: Comparison between CT and Chartis. <i>Korean Journal of Radiology</i> , 2019, 20, 1216.	3.4	6
122	Association Between Altitude and Regional Variation of ADHD in Youth. <i>Journal of Attention Disorders</i> , 2018, 22, 1299-1306.	2.6	17
123	A fast and robust level set motion-assisted deformable registration method for volumetric CT guided lung intervention. <i>Biocybernetics and Biomedical Engineering</i> , 2018, 38, 439-447.	5.9	0
124	Development of a robust and cost-effective 3D respiratory motion monitoring system using the kinect device: Accuracy comparison with the conventional stereovision navigation system. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 160, 25-32.	4.7	11
125	Enhancement of gesture recognition for contactless interface using a personalized classifier in the operating room. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 161, 39-44.	4.7	20
126	Comparison of Shallow and Deep Learning Methods on Classifying the Regional Pattern of Diffuse Lung Disease. <i>Journal of Digital Imaging</i> , 2018, 31, 415-424.	2.9	78



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127	Prediction of survival by texture-based automated quantitative assessment of regional disease patterns on CT in idiopathic pulmonary fibrosis. <i>European Radiology</i> , 2018, 28, 1293-1300.	4.5	35
128	Development of a Computer-Aided Differential Diagnosis System to Distinguish Between Usual Interstitial Pneumonia and Non-specific Interstitial Pneumonia Using Texture- and Shape-Based Hierarchical Classifiers on HRCT Images. <i>Journal of Digital Imaging</i> , 2018, 31, 235-244.	2.9	17
129	A Perlin Noise-Based Augmentation Strategy for Deep Learning with Small Data Samples of HRCT Images. <i>Scientific Reports</i> , 2018, 8, 17687.	3.3	43
130	Quantitative assessment of pulmonary vascular alterations in chronic obstructive lung disease: Associations with pulmonary function test and survival in the KOLD cohort. <i>European Journal of Radiology</i> , 2018, 108, 276-282.	2.6	20
131	Effect of pannus formation on the prosthetic heart valve: In vitro demonstration using particle image velocimetry. <i>PLoS ONE</i> , 2018, 13, e0199792.	2.5	13
132	Quantitative CT Imaging in Chronic Obstructive Pulmonary Disease: Review of Current Status and Future Challenges. <i>Journal of the Korean Society of Radiology</i> , 2018, 78, 1.	0.2	8
133	Generation of customized orbital implant templates using 3-dimensional printing for orbital wall reconstruction. <i>Eye</i> , 2018, 32, 1864-1870.	2.1	47
134	Positive association between moderate altitude and chronic lower respiratory disease mortality in United States counties. <i>PLoS ONE</i> , 2018, 13, e0200557.	2.5	10
135	Applications of Three-Dimensional Printing in Cardiovascular Surgery: A Case-Based Review. <i>Cardiovascular Imaging Asia</i> , 2018, 2, 166.	0.1	8
136	An Ensemble Method for Classifying Regional Disease Patterns of Diffuse Interstitial Lung Disease Using HRCT Images from Different Vendors. <i>Journal of Digital Imaging</i> , 2017, 30, 761-771.	2.9	7
137	Influence of Contrast Agent Dilution on Ballon Deflation Time and Visibility During Tracheal Balloon Dilation: A 3D Printed Phantom Study. <i>CardioVascular and Interventional Radiology</i> , 2017, 40, 285-290.	2.0	4
138	3D Printing Technology in Craniofacial Surgery and Salivary Gland Regeneration. , 2017, , 173-191.		0
139	Evaluation of postoperative lung volume and perfusion changes by dual-energy computed tomography in patients with lung cancer. <i>European Journal of Radiology</i> , 2017, 90, 166-173.	2.6	13
140	Improvement in Ventilation-Perfusion Mismatch after Bronchoscopic Lung Volume Reduction: Quantitative Image Analysis. <i>Radiology</i> , 2017, 285, 250-260.	7.3	19
141	Increasing burden of liver cancer despite extensive use of antiviral agents in a hepatitis B virus endemic population. <i>Hepatology</i> , 2017, 66, 1454-1463.	7.3	92
142	Doubling time of thymic epithelial tumours on CT: correlation with histological subtype. <i>European Radiology</i> , 2017, 27, 4030-4036.	4.5	25
143	Myocardial segmentation based on coronary anatomy using coronary computed tomography angiography: Development and validation in a pig model. <i>European Radiology</i> , 2017, 27, 4044-4053.	4.5	10
144	Intravoxel incoherent motion MRI for monitoring the therapeutic response of hepatocellular carcinoma to sorafenib treatment in mouse xenograft tumor models. <i>Acta Radiologica</i> , 2017, 58, 1045-1053.	1.1	14

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145	Association between flow skewness and aortic dilatation in patients with aortic stenosis. <i>International Journal of Cardiovascular Imaging</i> , 2017, 33, 1969-1978.	1.5	6
146	Detection of Local Tumor Recurrence After Definitive Treatment of Head and Neck Squamous Cell Carcinoma: Histogram Analysis of Dynamic Contrast-Enhanced T1-Weighted Perfusion MRI. <i>American Journal of Roentgenology</i> , 2017, 208, 42-47.	2.2	14
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