

Jinman Kim

List of Publications by Year in descending order

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109
papers

2,996
citations

218381

26
h-index

189595

50
g-index

113
all docs

113
docs citations

113
times ranked

3157
citing authors

#	ARTICLE	IF	CITATIONS
1	An Ensemble of Fine-Tuned Convolutional Neural Networks for Medical Image Classification. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 31-40.	3.9	360
2	Dermoscopic Image Segmentation via Multistage Fully Convolutional Networks. IEEE Transactions on Biomedical Engineering, 2017, 64, 2065-2074.	2.5	237
3	COVIDSenti: A Large-Scale Benchmark Twitter Data Set for COVID-19 Sentiment Analysis. IEEE Transactions on Computational Social Systems, 2021, 8, 1003-1015.	3.2	190
4	Content-Based Medical Image Retrieval: A Survey of Applications to Multidimensional and Multimodality Data. Journal of Digital Imaging, 2013, 26, 1025-1039.	1.6	162
5	Co-Learning Feature Fusion Maps From PET-CT Images of Lung Cancer. IEEE Transactions on Medical Imaging, 2020, 39, 204-217.	5.4	144
6	Saliency-Based Lesion Segmentation Via Background Detection in Dermoscopic Images. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1685-1693.	3.9	123
7	Reversion Correction and Regularized Random Walk Ranking for Saliency Detection. IEEE Transactions on Image Processing, 2018, 27, 1311-1322.	6.0	114
8	Multimodal Spatial Attention Module for Targeting Multimodal PET-CT Lung Tumor Segmentation. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3507-3516.	3.9	74
9	Cloud-Based Automated Clinical Decision Support System for Detection and Diagnosis of Lung Cancer in Chest CT. IEEE Journal of Translational Engineering in Health and Medicine, 2020, 8, 1-13.	2.2	73
10	Telehealth for Noncritical Patients With Chronic Diseases During the COVID-19 Pandemic. Journal of Medical Internet Research, 2020, 22, e19493.	2.1	66
11	Synthesis of Positron Emission Tomography (PET) Images via Multi-channel Generative Adversarial Networks (GANs). Lecture Notes in Computer Science, 2017, , 43-51.	1.0	57
12	Automatic detection and classification of regions of FDG uptake in whole-body PET-CT lymphoma studies. Computerized Medical Imaging and Graphics, 2017, 60, 3-10.	3.5	55
13	SparkMed: A Framework for Dynamic Integration of Multimedia Medical Data Into Distributed m-Health Systems. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 40-52.	3.6	51
14	A Multistage Discriminative Model for Tumor and Lymph Node Detection in Thoracic Images. IEEE Transactions on Medical Imaging, 2012, 31, 1061-1075.	5.4	51
15	Automated Decision Support System for Lung Cancer Detection and Classification via Enhanced RFCN With Multilayer Fusion RPN. IEEE Transactions on Industrial Informatics, 2020, 16, 7791-7801.	7.2	51
16	Dual-Path Adversarial Learning for Fully Convolutional Network (FCN)-Based Medical Image Segmentation. Visual Computer, 2018, 34, 1043-1052.	2.5	50
17	Adapting content-based image retrieval techniques for the semantic annotation of medical images. Computerized Medical Imaging and Graphics, 2016, 49, 37-45.	3.5	43
18	Stacked fully convolutional networks with multi-channel learning: application to medical image segmentation. Visual Computer, 2017, 33, 1061-1071.	2.5	43

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19	Transfer learning of a convolutional neural network for HEp-2 cell image classification. , 2016, , .		40
20	Decision Fusion-Based Fetal Ultrasound Image Plane Classification Using Convolutional Neural Networks. Ultrasound in Medicine and Biology, 2019, 45, 1259-1273.	0.7	38
21	Optic Disk and Cup Segmentation Through Fuzzy Broad Learning System for Glaucoma Screening. IEEE Transactions on Industrial Informatics, 2021, 17, 2476-2487.	7.2	38
22	A propagation-DNN: Deep combination learning of multi-level features for MR prostate segmentation. Computer Methods and Programs in Biomedicine, 2019, 170, 11-21.	2.6	37
23	OFF-eNET: An Optimally Fused Fully End-to-End Network for Automatic Dense Volumetric 3D Intracranial Blood Vessels Segmentation. IEEE Transactions on Image Processing, 2020, 29, 7192-7202.	6.0	37
24	A graph-based approach for the retrieval of multi-modality medical images. Medical Image Analysis, 2014, 18, 330-342.	7.0	35
25	Real-Time Volume Rendering Visualization of Dual-Modality PET/CT Images With Interactive Fuzzy Thresholding Segmentation. IEEE Transactions on Information Technology in Biomedicine, 2007, 11, 161-169.	3.6	31
26	Remote Monitoring Systems for Chronic Patients on Home Hemodialysis: Field Test of a Copresence-Enhanced Design. JMIR Human Factors, 2017, 4, e21.	1.0	29
27	Hybrid Refinement-Correction Heatmaps for Human Pose Estimation. IEEE Transactions on Multimedia, 2021, 23, 1330-1342.	5.2	28
28	High-dimensional data visualization by interactive construction of low-dimensional parallel coordinate plots. Journal of Visual Languages and Computing, 2017, 43, 1-13.	1.8	27
29	Unsupervised Deep Transfer Feature Learning for Medical Image Classification. , 2019, , .		27
30	Unsupervised Domain Adaptation to Classify Medical Images Using Zero-Bias Convolutional Auto-Encoders and Context-Based Feature Augmentation. IEEE Transactions on Medical Imaging, 2020, 39, 2385-2394.	5.4	27
31	Convolutional sparse kernel network for unsupervised medical image analysis. Medical Image Analysis, 2019, 56, 140-151.	7.0	24
32	Recurrent feature fusion learning for multi-modality pet-ct tumor segmentation. Computer Methods and Programs in Biomedicine, 2021, 203, 106043.	2.6	24
33	A Visual Analytics Approach Using the Exploration of Multidimensional Feature Spaces for Content-Based Medical Image Retrieval. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1734-1746.	3.9	22
34	Plane identification in fetal ultrasound images using saliency maps and convolutional neural networks. , 2016, , .		22
35	Efficient Body Motion Quantification and Similarity Evaluation Using 3-D Joints Skeleton Coordinates. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2774-2788.	5.9	22
36	Visibility-driven PET-CT visualisation with region of interest (ROI) segmentation. Visual Computer, 2013, 29, 805-815.	2.5	21

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37	An attention-enhanced cross-task network to analyse lung nodule attributes in CT images. Pattern Recognition, 2022, 126, 108576.	5.1	21
38	Early Identification of Depression Severity Levels on Reddit Using Ordinal Classification. , 2022, , .		21
39	Dense and Sparse Labeling With Multidimensional Features for Saliency Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1130-1143.	5.6	20
40	Supporting patients to be involved in decisions about their health and care: Development of a best practice health literacy App for Australian adults living with Chronic Kidney Disease. Health Promotion Journal of Australia, 2021, 32, 115-127.	0.6	20
41	ECSU-Net: An Embedded Clustering Sliced U-Net Coupled With Fusing Strategy for Efficient Intervertebral Disc Segmentation and Classification. IEEE Transactions on Image Processing, 2022, 31, 880-893.	6.0	20
42	DeepMTS: Deep Multi-Task Learning for Survival Prediction in Patients With Advanced Nasopharyngeal Carcinoma Using Pretreatment PET/CT. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4497-4507.	3.9	18
43	Multi-stage Thresholded Region Classification for Whole-Body PET-CT Lymphoma Studies. Lecture Notes in Computer Science, 2014, 17, 569-576.	1.0	17
44	Benchmarking for biomedical natural language processing tasks with a domain specific ALBERT. BMC Bioinformatics, 2022, 23, 144.	1.2	17
45	Unsupervised Two-Path Neural Network for Cell Event Detection and Classification Using Spatiotemporal Patterns. IEEE Transactions on Medical Imaging, 2019, 38, 1477-1487.	5.4	14
46	Emotion sharing in remote patient monitoring of patients with chronic kidney disease. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 185-193.	2.2	14
47	Simplified non-locally dense network for single-image dehazing. Visual Computer, 2020, 36, 2189-2200.	2.5	14
48	Identification of Disease or Symptom terms in Reddit to Improve Health Mention Classification. , 2022, , .		14
49	Automatic Measurement of Thalamic Diameter in 2-D Fetal Ultrasound Brain Images Using Shape Prior Constrained Regularized Level Sets. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1069-1078.	3.9	13
50	Visualizing Dual-Modality Rendered Volumes Using a Dual-Lookup Table Transfer Function. Computing in Science and Engineering, 2007, 9, 20-25.	1.2	12
51	Machine learning in medical imaging. , 2020, , 167-196.		12
52	Hyper-fusion network for semi-automatic segmentation of skin lesions. Medical Image Analysis, 2022, 76, 102334.	7.0	12
53	A Graph-based approach to the retrieval of volumetric PET-CT lung images. , 2012, 2012, 5408-11.		11
54	Image-Aligned Dynamic Liver Reconstruction Using Intra-Operative Field of Views for Minimal Invasive Surgery. IEEE Transactions on Biomedical Engineering, 2019, 66, 2163-2173.	2.5	11

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55	Semantic Segmentation of Cerebellum in 2D Fetal Ultrasound Brain Images Using Convolutional Neural Networks. IEEE Access, 2021, 9, 85864-85873.	2.6	11
56	A New Aggregation of DNN Sparse and Dense Labeling for Saliency Detection. IEEE Transactions on Cybernetics, 2021, 51, 5907-5920.	6.2	10
57	Cellular automata and anisotropic diffusion filter based interactive tumor segmentation for positron emission tomography. , 2013, 2013, 5453-6.		9
58	An automated segmentation framework for nasal computational fluid dynamics analysis in computed tomography. Computers in Biology and Medicine, 2019, 115, 103505.	3.9	9
59	A Spatial Guided Self-supervised Clustering Network for Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 379-388.	1.0	9
60	Vestibule segmentation from CT images with integration of multiple deep feature fusion strategies. Computerized Medical Imaging and Graphics, 2021, 89, 101872.	3.5	9
61	High-parallelism Inception-like Spiking Neural Networks for Unsupervised Feature Learning. Neurocomputing, 2021, 441, 92-104.	3.5	9
62	Modified GAN-CAED to Minimize Risk of Unintentional Liver Major Vessels Cutting by Controlled Segmentation Using CTA/SPET-CT. IEEE Transactions on Industrial Informatics, 2021, 17, 7991-8002.	7.2	9
63	Real-time spatial normalization for dynamic gesture classification. Visual Computer, 2022, 38, 1345-1357.	2.5	8
64	A Mobile App and Dashboard for Early Detection of Infectious Disease Outbreaks: Development Study. JMIR Public Health and Surveillance, 2021, 7, e14837.	1.2	7
65	Classifying vaccine sentiment tweets by modelling domain-specific representation and commonsense knowledge into context-aware attentive GRU. , 2021, , .		7
66	Immersive Analytics Applications in Life and Health Sciences. Lecture Notes in Computer Science, 2018, , 289-330.	1.0	7
67	A graph-based approach to the retrieval of dual-modality biomedical images using spatial relationships. , 2008, 2008, 390-3.		6
68	Graph-based retrieval of multi-modality medical images: A comparison of representations using simulated images. , 2012, , .		6
69	A patient-centric distribution architecture for medical image sharing. Health Information Science and Systems, 2013, 1, 3.	3.4	6
70	Efficient visibility-driven medical image visualisation via adaptive binned visibility histogram. Computerized Medical Imaging and Graphics, 2016, 51, 40-49.	3.5	6
71	Development of a risk predictive scoring system to identify patients at risk of representation to emergency department: a retrospective population-based analysis in Australia. BMJ Open, 2018, 8, e021323.	0.8	6
72	Automatic left ventricular cavity segmentation via deep spatial sequential network in 4D computed tomography. Computerized Medical Imaging and Graphics, 2021, 91, 101952.	3.5	6

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73	Living Donor-Recipient Pair Matching for Liver Transplant via Ternary Tree Representation With Cascade Incremental Learning. IEEE Transactions on Biomedical Engineering, 2021, 68, 2540-2551.	2.5	6
74	Improving PET-CT Image Segmentation via Deep Multi-modality Data Augmentation. Lecture Notes in Computer Science, 2020, , 145-152.	1.0	6
75	Hybrid Text Representation for Explainable Suicide Risk Identification on Social Media. IEEE Transactions on Computational Social Systems, 2024, , 1-10.	3.2	6
76	Unsupervised Positron Emission Tomography Tumor Segmentation via GAN based Adversarial Auto-Encoder. , 2020, , .		5
77	Graph-Based Intercategory and Intermodality Network for Multilabel Classification and Melanoma Diagnosis of Skin Lesions in Dermoscopy and Clinical Images. IEEE Transactions on Medical Imaging, 2022, 41, 3266-3277.	5.4	5
78	Interactive Fusion and Contrast Enhancement for Whole Body PET-CT Data Using Multi-Image Pixel Compositing. , 0, , .		4
79	Automated segmentation of tumour changes in temporal PET-CT data. , 2012, , .		4
80	Exploration of Virtual and Augmented Reality for Visual Analytics and 3D Volume Rendering of Functional Magnetic Resonance Imaging (fMRI) Data. , 2015, , .		4
81	A web-based multidisciplinary team meeting visualisation system. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 2221-2231.	1.7	4
82	A direct volume rendering visualization approach for serial PET-CT scans that preserves anatomical consistency. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 733-744.	1.7	4
83	Experimental protocol designed to employ Nd:YAG laser surgery for anterior chamber glaucoma detection via UBM. IET Image Processing, 2022, 16, 2171-2179.	1.4	4
84	Enhancing medical image registration via appearance adjustment networks. NeuroImage, 2022, 259, 119444.	2.1	4
85	Automatic Descending Aorta Segmentation in Whole-Body PET-CT Studies for PERCIST-Based Thresholding. , 2012, , .		3
86	Efficient PET-CT image retrieval using graphs embedded into a vector space. , 2014, 2014, 1901-4.		3
87	Content-based large-scale medical image retrieval. , 2020, , 321-368.		3
88	Machine Learning Algorithms, Applied to Intact Islets of Langerhans, Demonstrate Significantly Enhanced Insulin Staining at the Capillary Interface of Human Pancreatic β^2 Cells. Metabolites, 2021, 11, 363.	1.3	3
89	Digital mapping of a manual fabrication method for paediatric ankle-foot orthoses. Scientific Reports, 2021, 11, 19068.	1.6	3
90	Fused feature signatures to probe tumour radiogenomics relationships. Scientific Reports, 2022, 12, 2173.	1.6	3

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91	Medical image data retrieval and manipulation through the WWW. , 0, , .		2
92	Bridging the Feature Gaps for Retrieval of Multi-Dimensional Images. International Journal of Healthcare Information Systems and Informatics, 2009, 4, 34-46.	1.0	2
93	Opacity-driven volume clipping for slice of interest (SOI) visualisation of multi-modality PET-CT volumes. , 2014, 2014, 6714-7.		2
94	Multi-Modal Image Processing and Visualization. , 2016, , .		2
95	Deep Cognitive Gate: Resembling Human Cognition for Saliency Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	2
96	The Checkpoint Program: Collaborative Care to Reduce the Reliance of Frequent Presenters on ED. International Journal of Integrated Care, 2021, 21, 29.	0.1	2
97	Malocclusion Treatment Planning via PointNet Based Spatial Transformation Network. Lecture Notes in Computer Science, 2020, , 105-114.	1.0	2
98	Predicting distant metastases in soft-tissue sarcomas from PET-CT scans using constrained hierarchical multi-modality feature learning. Physics in Medicine and Biology, 2021, 66, 245004.	1.6	2
99	Unsupervised Landmark Detection-Based Spatiotemporal Motion Estimation for 4-D Dynamic Medical Images. IEEE Transactions on Cybernetics, 2023, 53, 3532-3545.	6.2	2
100	Improving Breast Tumor Segmentation in PET via Attentive Transformation Based Normalization. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3261-3271.	3.9	2
101	Multi-task Deep Learning for Joint Tumor Segmentation and Outcome Prediction in Head and Neck Cancer. Lecture Notes in Computer Science, 2022, , 160-167.	1.0	2
102	RHMD: A Real-World Dataset for Health Mention Classification on Reddit. IEEE Transactions on Computational Social Systems, 2023, 10, 2325-2334.	3.2	2
103	A web-based image viewer for multiple PET-CT follow-up studies. , 2011, 2011, 5279-82.		1
104	An Automated Framework for Large Scale Retrospective Analysis of Ultrasound Images. IEEE Journal of Translational Engineering in Health and Medicine, 2019, 7, 1-9.	2.2	1
105	Biomedical image visualization and display technologies. , 2020, , 561-583.		1
106	An intuitive Sketch-based Transfer Function Design via Contextual and Regional Labelling. , 2016, , .		0
107	Robust Identification of Figurative Language in Personal Health Mentions on Twitter. IEEE Transactions on Artificial Intelligence, 2023, 4, 362-372.	3.4	0
108	SparseVoxNet: 3-D Object Recognition With Sparsely Aggregation of 3-D Dense Blocks. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 532-546.	7.2	0

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109	Evaluation of the SUCCESS health literacy app for Australian adults with chronic kidney disease: Study protocol for a pragmatic randomised controlled trial (Preprint). JMIR Research Protocols, 0, , .	0.5	0