Jin Tae Kwak

List of Publications by Year
in descending order

60	2,547	279798	206112
papers	citations	23 h-index	48 g-index

61	61	61	2876
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hover-Net: Simultaneous segmentation and classification of nuclei in multi-tissue histology images. Medical Image Analysis, 2019, 58, 101563.	11.6	562
2	BACH: Grand challenge on breast cancer histology images. Medical Image Analysis, 2019, 56, 122-139.	11.6	356
3	A Multi-Organ Nucleus Segmentation Challenge. IEEE Transactions on Medical Imaging, 2020, 39, 1380-1391.	8.9	259
4	Methods for Segmentation and Classification of Digital Microscopy Tissue Images. Frontiers in Bioengineering and Biotechnology, 2019, 7, 53.	4.1	169
5	Automated prostate cancer detection using T2â€weighted and highâ€bâ€value diffusionâ€weighted magnetic resonance imaging. Medical Physics, 2015, 42, 2368-2378.	3.0	81
6	Leukocytes Classification and Segmentation in Microscopic Blood Smear: A Resource-Aware Healthcare Service in Smart Cities. IEEE Access, 2017, 5, 3475-3489.	4.2	81
7	Deep convolutional neural network for classifying Fusarium wilt of radish from unmanned aerial vehicles. Journal of Applied Remote Sensing, 2017, 11, 1.	1.3	78
8	Multimodal microscopy for automated histologic analysis of prostate cancer. BMC Cancer, 2011, 11, 62.	2.6	76
9	Deep Recurrent Neural Networks for Prostate Cancer Detection: Analysis of Temporal Enhanced Ultrasound. IEEE Transactions on Medical Imaging, 2018, 37, 2695-2703.	8.9	57
10	PAIP 2019: Liver cancer segmentation challenge. Medical Image Analysis, 2021, 67, 101854.	11.6	52
11	Improving Prediction of Prostate Cancer Recurrence using Chemical Imaging. Scientific Reports, 2015, 5, 8758.	3.3	51
12	Deep dense multi-path neural network for prostate segmentation in magnetic resonance imaging. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1687-1696.	2.8	47
13	Multiview boosting digital pathology analysis of prostate cancer. Computer Methods and Programs in Biomedicine, 2017, 142, 91-99.	4.7	37
14	Detection and grading of prostate cancer using temporal enhanced ultrasound: combining deep neural networks and tissue mimicking simulations. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1293-1305.	2.8	36
15	Nuclear Architecture Analysis of Prostate Cancer via Convolutional Neural Networks. IEEE Access, 2017, 5, 18526-18533.	4.2	35
16	Analysis of Variance in Spectroscopic Imaging Data from Human Tissues. Analytical Chemistry, 2012, 84, 1063-1069.	6.5	34
17	Detection of prostate cancer using temporal sequences of ultrasound data: a large clinical feasibility study. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 947-956.	2.8	34
18	Detection of prostate cancer in multiparametric MRI using random forest with instance weighting. Journal of Medical Imaging, 2017, 4, 024506.	1.5	33

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19	Prostate Cancer: A Correlative Study of Multiparametric MR Imaging and Digital Histopathology. Radiology, 2017, 285, 147-156.	7.3	33
20	Convolutional neural network based deep-learning architecture for prostate cancer detection on multiparametric magnetic resonance images. Proceedings of SPIE, 2017, , .	0.8	30
21	Biopsy-guided learning with deep convolutional neural networks for Prostate Cancer detection on multiparametric MRI. , 2017, , .		28
22	Transfer learning from RF to B-mode temporal enhanced ultrasound features for prostate cancer detection. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1111-1121.	2.8	25
23	Fusarium Wilt of Radish Detection Using RGB and Near Infrared Images from Unmanned Aerial Vehicles. Remote Sensing, 2020, 12, 2863.	4.0	25
24	Automated prostate tissue referencing for cancer detection and diagnosis. BMC Bioinformatics, 2016, 17, 227.	2.6	23
25	SONNET: A Self-Guided Ordinal Regression Neural Network for Segmentation and Classification of Nuclei in Large-Scale Multi-Tissue Histology Images. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3218-3228.	6.3	23
26	Is Visual Registration Equivalent to Semiautomated Registration in Prostate Biopsy?. BioMed Research International, 2015, 2015, 1-7.	1.9	22
27	Correlation of magnetic resonance imaging with digital histopathology in prostate. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 657-666.	2.8	22
28	Ultrasound-Based Detection of Prostate Cancer Using Automatic Feature Selection with Deep Belief Networks. Lecture Notes in Computer Science, 2015, , 70-77.	1.3	21
29	Improving detection of prostate cancer foci via information fusion of MRI and temporal enhanced ultrasound. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1215-1223.	2.8	20
30	Efficient data mining for local binary pattern in texture image analysis. Expert Systems With Applications, 2015, 42, 4529-4539.	7.6	19
31	Deep neural maps for unsupervised visualization of high-grade cancer in prostate biopsies. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1009-1016.	2.8	17
32	Joint categorical and ordinal learning for cancer grading in pathology images. Medical Image Analysis, 2021, 73, 102206.	11.6	14
33	A dense multi-path decoder for tissue segmentation in histopathology images. Computer Methods and Programs in Biomedicine, 2019, 173, 119-129.	4.7	13
34	Multi-Scale Binary Pattern Encoding Network for Cancer Classification in Pathology Images. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1152-1163.	6.3	13
35	Multi-task Deep Learning for Colon Cancer Grading. , 2020, , .		12
36	Semi-supervised learning for an improved diagnosis of COVID-19 in CT images. PLoS ONE, 2021, 16, e0249450.	2.5	12

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37	Augmenting MRIâ€“transrectal ultrasound-guided prostate biopsy with temporal ultrasound data: a clinical feasibility study. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 727-735.	2.8	11
38	Stromal-epithelial responses to fractionated radiotherapy in a breast cancer microenvironment. Cancer Cell International, 2015, 15, 67.	4.1	10
39	Toward a real-time system for temporal enhanced ultrasound-guided prostate biopsy. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1201-1209.	2.8	8
40	Learning from Noisy Label Statistics: Detecting High Grade Prostate Cancer in Ultrasound Guided Biopsy. Lecture Notes in Computer Science, 2018, , 21-29.	1.3	7
41	Micro and Macro Breast Histology Image Analysis by Partial Network Re-use. Lecture Notes in Computer Science, 2018, , 895-902.	1.3	7
42	Unsupervised Tumor Characterization via Conditional Generative Adversarial Networks. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 348-357.	6.3	7
43	Classifying Cancer Grades Using Temporal Ultrasound for Transrectal Prostate Biopsy. Lecture Notes in Computer Science, 2016, , 653-661.	1.3	7
44	Lumen-based detection of prostate cancer via convolutional neural networks. Proceedings of SPIE, 2017, , .	0.8	6
45	Deep regression neural networks for collateral imaging from dynamic susceptibility contrast-enhanced magnetic resonance perfusion in acute ischemic stroke. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 151-162.	2.8	5
46	Region-aggregated attention CNN for disease detection in fruit images. PLoS ONE, 2021, 16, e0258880.	2.5	5
47	High-definition Fourier transform infrared spectroscopic imaging of prostate tissue. Proceedings of SPIE, 2016, , .	0.8	4
48	A multiview boosting approach to tissue segmentation. , 2014, , .		3
49	Ranking Loss: A Ranking-Based Deep Neural Network for Colorectal Cancer Grading in Pathology Images. Lecture Notes in Computer Science, 2021, , 540-549.	1.3	3
50	Ultrasound-Based Predication of Prostate Cancer in MRI-guided Biopsy. Lecture Notes in Computer Science, 2014, , 142-150.	1.3	3
51	Scale embedding shared neural networks for multiscale histological analysis of prostate cancer. , 2019, , .		3
52	Nucleus detection using gradient orientation information and linear least squares regression. Proceedings of SPIE, 2015, , .	0.8	2
53	Deep Learning Framework for Epithelium Density Estimation in Prostate Multi-Parametric Magnetic Resonance Imaging. , 2020, , .		2
54	Improving Dense Pixelwise Prediction of Epithelial Density Using Unsupervised Data Augmentation for Consistency Regularization. Lecture Notes in Computer Science, 2020, , 572-581.	1.3	2

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55	Distance ordinal regression loss for an improved nuclei segmentation. , 2021, , .		1
56	A new segmentation framework for infrared spectroscopic imaging using frequent pattern mining. , 2011, , .		0
57	Deep convolution and up-convolution network for plant segmentation. , 2018, , .		0
58	Deep Neural Networks for Korean Fonts Generation. , 2020, , .		0
59	3-D multitask deep neural networks for collateral imaging from dynamic susceptibility contrast-enhanced magnetic resonance perfusion. , 2021, , .		0
60	Dual-Encoding Style Transfer for Korean Font Generation. , 2021, , .		0