Heung-Kook Choi

List of Publications by Year
in descending order

66 papers	719 citations	623734 14 h-index	580821 25 g-index
67 all docs	67 docs citations	67 times ranked	959 citing authors

#	Article	IF	Citations
1	Stroke outcomes are worse with larger leukoaraiosis volumes. Brain, 2017, 140, 158-170.	7.6	96
2	Brightness preserving weight clustering histogram equalization. IEEE Transactions on Consumer Electronics, 2008, 54, 1329-1337.	3.6	76
3	Image contrast enhancement using bi-histogram equalization with neighborhood metrics. IEEE Transactions on Consumer Electronics, 2010, 56, 2727-2734.	3.6	71
4	Grading and Interpretation of White Matter Hyperintensities Using Statistical Maps. Stroke, 2014, 45, 3567-3575.	2.0	54
5	Mapping the Supratentorial Cerebral Arterial Territories Using 1160 Large Artery Infarcts. JAMA Neurology, 2019, 76, 72.	9.0	46
6	Convolutional Neural Network-based MR Image Analysis for Alzheimer's Disease Classification. Current Medical Imaging, 2020, 16, 27-35.	0.8	38
7	Grading of renal cell carcinoma by 3D morphological analysis of cell nuclei. Computers in Biology and Medicine, 2007, 37, 1334-1341.	7.0	26
8	3D Texture Analysis in Renal Cell Carcinoma Tissue Image Grading. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-12.	1.3	25
9	Quantitative Analysis of Benign and Malignant Tumors in Histopathology: Predicting Prostate Cancer Grading Using SVM. Applied Sciences (Switzerland), 2019, 9, 2969.	2.5	25
10	Alzheimer's Disease Classification Based on Multi-feature Fusion. Current Medical Imaging, 2019, 15, 161-169.	0.8	21
11	Multi-Features Classification of Prostate Carcinoma Observed in Histological Sections: Analysis of Wavelet-Based Texture and Colour Features. Cancers, 2019, 11, 1937.	3.7	18
12	Deep Learning for Alzheimer's Disease Classification using Texture Features. Current Medical Imaging, 2019, 15, 689-698.	0.8	18
13	A New Image-Based Stroke Registry Containing Quantitative Magnetic Resonance Imaging Data. Cerebrovascular Diseases, 2011, 32, 567-576.	1.7	17
14	Three-dimensional Texture Analysis of Renal Cell Carcinoma Cell Nuclei for Computerized Automatic Grading. Journal of Medical Systems, 2010, 34, 709-716.	3.6	16
15	An Efficient Lightweight CNN and Ensemble Machine Learning Classification of Prostate Tissue Using Multilevel Feature Analysis. Applied Sciences (Switzerland), 2020, 10, 8013.	2.5	13
16	Diagnosing Alzheimer's Disease Based on Multiclass MRI Scans using Transfer Learning Techniques. Current Medical Imaging, 2021, 17, 1460-1472.	0.8	13
17	Whole Slide Image Analysis and Detection of Prostate Cancer using Vision Transformers. , 2022, , .		12
18	Comparison of thresholding methods for breast tumor cell segmentation. , 0, , .		11

#	Article	IF	Citations
19	One-year Follow-up Study of Hippocampal Subfield Atrophy in Alzheimer's Disease and Normal Aging. Current Medical Imaging, 2019, 15, 699-709.	0.8	11
20	A Comparative Study of Alzheimerâ€™s Disease Classification using Multiple Transfer Learning Models. Journal of Multimedia Information System, 2019, 6, 209-216.	0.6	11
21	Artificial Intelligence Techniques for Prostate Cancer Detection through Dual-Channel Tissue Feature Engineering. Cancers, 2021, 13, 1524.	3.7	10
22	A Paradigm Shift in Nuclear Chromatin Interpretation: From Qualitative Intuitive Recognition to Quantitative Texture Analysis of Breast Cancer Cell Nuclei. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 99, 698-706.	1.5	9
23	Multi-Resolution Wavelet-Transformed Image Analysis of Histological Sections of Breast Carcinomas. Analytical Cellular Pathology, 2005, 27, 237-244.	1.4	7
24	Tele-medical imaging conference system based on the Web. Computer Methods and Programs in Biomedicine, 2002, 68, 223-231.	4.7	6
25	Exploring the user requirements for wearable healthcare systems. , 2011, , .		6
26	A Novel Filter ed Bi-Histogram Equalization Method. Journal of Korea Multimedia Society, 2015, 18, 691-700.	0.2	6
27	Comparison of Active Contour and Active Shape Approaches for Corpus Callosum Segmentation. Journal of Korea Multimedia Society, 2013, 16, 1018-1030.	0.2	6
28	Contrast Enhancement for Segmentation of Hippocampus on Brain MR Images. Journal of Korea Multimedia Society, 2012, 15, 1409-1416.	0.2	5
29	Color Image Enhancement Using a Retinex Algorithm with Bilateral Filtering for Images with Poor Illumination. Journal of Korea Multimedia Society, 2016, 19, 233-239.	0.2	4
30	Texture, Morphology, and Statistical Analysis to Differentiate Primary Brain Tumors on Two-Dimensional Magnetic Resonance Imaging Scans Using Artificial Intelligence Techniques. Healthcare Informatics Research, 2022, 28, 46-57.	1.9	4
31	An Explainable Computer Vision in Histopathology: Techniques for Interpreting Black Box Model. , 2022, , .		4
32	Experimental evaluation of a-Se flat-panel X-ray detector for digital radiography. , 0, , .		3
33	Hippocampus Segmentation and Classification in Alzheimer's Disease and Mild Cognitive Impairment Applied on MR Images. Journal of Korea Multimedia Society, 2017, 20, 205-215.	0.2	3
34	Cluster Analysis of Cell Nuclei in H&E-Stained Histological Sections of Prostate Cancer and Classification Based on Traditional and Modern Artificial Intelligence Techniques. Diagnostics, 2022, 12, 15.	2.6	3
35	Regional contractility measurement of the left ventricle using gated myocardial SPECT. , 0, , .		2
36	Study on texture analysis of renal cell carcinoma nuclei based on the Fuhrman grading system. , 0, , .		2

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37	Development of image processing software for quantitative analysis of bioluminescence image. , 2006, , .		2
38	Semi-automated Approach to Hippocampus Segmentation Using Snake from Brain MRI. Journal of Korea Multimedia Society, 2014, 17, 566-572.	0.2	2
39	A Hippocampus Segmentation in Brain MR Images using Level-Set Method. Journal of Korea Multimedia Society, 2012, 15, 1075-1085.	0.2	2
40	Hippocampus Volume Measurement for the determination of MCI. Journal of Korea Multimedia Society, 2012, 15, 1449-1455.	0.2	2
41	A Study on Oriental Medicine Hybrid Multi-cup Electric Cupping Contents using Vacuum Pressure. Journal of Korea Multimedia Society, 2014, 17, 1363-1373.	0.2	2
42	Contrast-enhanced Bias-corrected Distance-regularized Level Set Method Applied to Hippocampus Segmentation. Journal of Korea Multimedia Society, 2016, 19, 1236-1247.	0.2	2
43	Design of the breast carcinoma cell bank system. , 0, , .		1
44	Region-position 3D labeling algorithm for three dimensional analysis of cells. , 0, , .		1
45	Classification of breast tissue images based on wavelet transform using discriminant analysis, neural network and SVM. , 0, , .		1
46	Development of quantification software using model-based segmentation of left ventricular myocardium in gated myocardial SPECT. Computer Methods and Programs in Biomedicine, 2006, 83, 43-49.	4.7	1
47	Comparison of active contour and fast marching methods of hippocampus segmentation. , 2015, , .		1
48	Time Complexity Measurement on CUDA-based GPU Parallel Architecture of Morphology Operation. Journal of Korea Multimedia Society, 2013, 16, 444-452.	0.2	1
49	Implementation of 2D Active Shape Model-based Segmentation on Hippocampus. Journal of Korea Multimedia Society, 2014, 17, 1-7.	0.2	1
50	Implementation of 2D Snake Model-based Segmentation on Corpus Callosum. Journal of Korea Multimedia Society, 2014, 17, 1412-1417.	0.2	1
51	Compar ison of Level Set-based Active Contour Models on Subcor tical Image Segmentation. Journal of Korea Multimedia Society, 2015, 18, 827-833.	0.2	1
52	Motility analysis of gated myocardium SPECT images. , 0, , .		0
53	A computerized program for three-dimensional visualization and quantitative analysis of cell nuclei. , 0, , .		0
54	Molecular imaging and its tissue analysis. , 0, , .		0

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55	High resolution flat-panel X-ray detector for digital radiography. , 0, , .		0
56	Cell nuclei image classification using three-dimensional texture features. , 2006, , .		0
57	Development of image processing software for quantitative analysis of bioluminescence image. , 0, , .		0
58	Cell nuclei image classification using three-dimensional texture features. , 0, , .		0
59	Modeling of myocardial contractility using parameterized super-quadric SPECT images. Computerized Medical Imaging and Graphics, 2006, 30, 43-51.	5.8	0
60	Building u-Hospice from UCI Perspectives. , 2007, , .		0
61	Comparison of Two Internet Based Telepathology Systems: CORBA and ActiveX System. Journal of Korean Society of Medical Informatics, 2003, 9, 285.	0.3	0
62	Development of Histopathological Breast Tumor Image Retrieval System Based on Internet Using a Content-based Retrieval Method. Journal of Korean Society of Medical Informatics, 2005, 11, 87.	0.3	0
63	Cancer Cell Image Analysis and Visualization. International Journal of E-Health and Medical Communications, 2010, 1, 53-63.	1.6	0
64	Design and Development of Middleware for Clinical Trial System based on Brain MR Image. Journal of Korea Multimedia Society, 2012, 15, 805-813.	0.2	0
65	Design of 3D Visualization Software Tool Based on VTK for Manual Brain Segmentation of MRI. Journal of Korea Multimedia Society, 2015, 18, 120-127.	0.2	0
66	Cancer Cell Image Analysis and Visualization. , 0, , 233-243.		0