Ravi K Samala

List of Publications by Year
in descending order

58 papers	2,080 citations	361413 20 h-index	330143 37 g-index
58 all docs	58 docs citations	58 times ranked	2292 citing authors

#	Article	IF	Citations
1	Effect of Dose Level on Radiologistsâ€™ Detection of Microcalcifications in Digital Breast Tomosynthesis: An Observer Study with Breast Phantoms. Academic Radiology, 2022, 29, S42-S49.	2.5	3
2	Computerized Decision Support for Bladder Cancer Treatment Response Assessment in CT Urography: Effect on Diagnostic Accuracy in Multi-Institution Multi-Specialty Study. Tomography, 2022, 8, 644-656.	1.8	5
3	Image Processing Analytics: Enhancements and Segmentation. , 2021, , 1727-1745.		0
4	Risks of feature leakage and sample size dependencies in deep feature extraction for breast mass classification. Medical Physics, 2021, 48, 2827-2837.	3.0	16
5	Quantitative Imaging and Bladder Cancer. , 2021, , 1-32.		0
6	CAD and AI for breast cancerâ€"recent development and challenges. British Journal of Radiology, 2020, 93, 20190580.	2.2	100
7	Computerâ€aided diagnosis in the era of deep learning. Medical Physics, 2020, 47, e218-e227.	3.0	154
8	Generalization error analysis for deep convolutional neural network with transfer learning in breast cancer diagnosis. Physics in Medicine and Biology, 2020, 65, 105002.	3.0	23
9	Deep Learning in Medical Image Analysis. Advances in Experimental Medicine and Biology, 2020, 1213, 3-21.	1.6	300
10	Intraobserver Variability in Bladder Cancer Treatment Response Assessment With and Without Computerized Decision Support. Tomography, 2020, 6, 194-202.	1.8	13
11	Deep Learning Approach for Assessment of Bladder Cancer Treatment Response. Tomography, 2019, 5, 201-208.	1.8	38
12	Uâ€Net based deep learning bladder segmentation in <scp>CT</scp> urography. Medical Physics, 2019, 46, 1752-1765.	3.0	50
13	Breast Cancer Diagnosis in Digital Breast Tomosynthesis: Effects of Training Sample Size on Multi-Stage Transfer Learning Using Deep Neural Nets. IEEE Transactions on Medical Imaging, 2019, 38, 686-696.	8.9	147
14	Diagnostic Accuracy of CT for Prediction of Bladder Cancer Treatment Response with and without Computerized Decision Support. Academic Radiology, 2019, 26, 1137-1145.	2.5	46
15	Deepâ€learning convolutional neural network: Inner and outer bladder wall segmentation in CT urography. Medical Physics, 2019, 46, 634-648.	3.0	15
16	2D and 3D bladder segmentation using U-Net-based deep-learning. , 2019, , .		4
17	Deep learning based bladder cancer treatment response assessment. , 2019, , .		0
18	Evolutionary pruning of transfer learned deep convolutional neural network for breast cancer diagnosis in digital breast tomosynthesis. Physics in Medicine and Biology, 2018, 63, 095005.	3.0	74

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19	Computer-aided assessment of breast density: comparison of supervised deep learning and feature-based statistical learning. Physics in Medicine and Biology, 2018, 63, 025005.	3.0	44
20	Generalization error analysis: deep convolutional neural network in mammography. , 2018, , .		2
21	Compression of deep convolutional neural network for computer-aided diagnosis of masses in digital breast tomosynthesis. , 2018, , .		1
22	Cross-domain and multi-task transfer learning of deep convolutional neural network for breast cancer diagnosis in digital breast tomosynthesis. , 2018, , .		9
23	Computer-aided detection of bladder wall thickening in CT urography (CTU). , 2018, , .		0
24	Bladder cancer treatment response assessment in CT urography using two-channel deep-learning network. , 2018, , .		1
25	Bladder cancer treatment response assessment using deep learning in CT with transfer learning. , 2017, , .		1
26	Segmentation of inner and outer bladder wall using deep-learning convolutional neural network in CT urography. Proceedings of SPIE, 2017, , .	0.8	10
27	Multi-task transfer learning deep convolutional neural network: application to computer-aided diagnosis of breast cancer on mammograms. Physics in Medicine and Biology, 2017, 62, 8894-8908.	3.0	151
28	Improving image quality for digital breast tomosynthesis: an automated detection and diffusion-based method for metal artifact reduction. Physics in Medicine and Biology, 2017, 62, 7765-7783.	3.0	7
29	Bladder Cancer Treatment Response Assessment in CT using Radiomics with Deep-Learning. Scientific Reports, 2017, 7, 8738.	3.3	144
30	Identifying key radiogenomic associations between DCE-MRI and micro-RNA expressions for breast cancer. , 2017, , .		1
31	Computer-aided detection of bladder masses in CT urography (CTU). Proceedings of SPIE, 2017, , .	0.8	4
32	Bladder Cancer Segmentation in CT for Treatment Response Assessment: Application of Deep-Learning Convolution Neural Networkâ€"A Pilot Study. Tomography, 2016, 2, 421-429.	1.8	64
33	Analysis of computer-aided detection techniques and signal characteristics for clustered microcalcifications on digital mammography and digital breast tomosynthesis. Physics in Medicine and Biology, 2016, 61, 7092-7112.	3.0	19
34	Mass detection in digital breast tomosynthesis: Deep convolutional neural network with transfer learning from mammography. Medical Physics, 2016, 43, 6654-6666.	3.0	232
35	Urinary bladder segmentation in CT urography using deepâ€learning convolutional neural network and level sets. Medical Physics, 2016, 43, 1882-1896.	3.0	192
36	Reference state estimation of breast computed tomography for registration with digital mammography. Proceedings of SPIE, 2016, , .	0.8	0

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37	Deep-learning convolution neural network for computer-aided detection of microcalcifications in digital breast tomosynthesis. Proceedings of SPIE, 2016, , .	0.8	28
38	First and second-order features for detection of masses in digital breast tomosynthesis. Proceedings of SPIE, 2016, , .	0.8	1
39	Comparison of bladder segmentation using deep-learning convolutional neural network with and without level sets. Proceedings of SPIE, 2016, , .	0.8	3
40	Multiscale bilateral filtering for improving image quality in digital breast tomosynthesis. Medical Physics, 2015, 42, 182-195.	3.0	20
41	Computer-aided detection system for clustered microcalcifications in digital breast tomosynthesis using joint information from volumetric and planar projection images. Physics in Medicine and Biology, 2015, 60, 8457-8479.	3.0	28
42	Comparison of computer-aided detection of clustered microcalcifications in digital mammography and digital breast tomosynthesis. Proceedings of SPIE, 2015, , .	0.8	1
43	Digital breast tomosynthesis: application of 2D digital mammography CAD to detection of microcalcification clusters on planar projection image. , 2015, , .		0
44	Digital breast tomosynthesis: computer-aided detection of clustered microcalcifications on planar projection images. Physics in Medicine and Biology, 2014, 59, 7457-7477.	3.0	32
45	False positive reduction of microcalcification cluster detection in digital breast tomosynthesis. Proceedings of SPIE, 2014, , .	0.8	3
46	Digital breast tomosynthesis: effects of projection-view distribution on computer-aided detection of microcalcification clusters. Proceedings of SPIE, 2014, , .	0.8	3
47	Computerâ€aided detection of clustered microcalcifications in multiscale bilateral filtering regularized reconstructed digital breast tomosynthesis volume. Medical Physics, 2014, 41, 021901.	3.0	25
48	Multichannel response analysis on 2D projection views for detection of clustered microcalcifications in digital breast tomosynthesis. Medical Physics, 2014, 41, 041913.	3.0	17
49	Detection of microcalcifications in breast tomosynthesis reconstructed with multiscale bilateral filtering regularization. , 2013, , .		4
50	Study of image quality in digital breast tomosynthesis by subpixel reconstruction. , 2013, , .		2
51	Gallbladder quantification in ultrasound using GVF snakes. , 2011, , .		1
52	Reliability study of reconstruction methods in tomosynthesis imaging of various geometrical objects. Proceedings of SPIE, 2010, , .	0.8	0
53	Combinational feature optimization for classification of lung tissue images. Proceedings of SPIE, 2010, , .	0.8	0
54	Similarity based false-positive reduction for breast cancer using radiographic and pathologic imaging features. , 2010, , .		1

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55	Comparative Study of Feature Measures for Histopathological Images of the Lung. , 2010, , .		1
56	Knowledge based optimum feature selection for lung nodule diagnosis on thin section thoracic CT. Proceedings of SPIE, 2009, , .	0.8	1
57	A Novel Approach to Nodule Feature Optimization on Thin Section Thoracic CT. Academic Radiology, 2009, 16, 418-427.	2.5	37
58	Deblurring of tomosynthesis images using 3D anisotropic diffusion filtering. , 2007, , .		2