

# Ravi K Samala

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Deep Learning in Medical Image Analysis. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1213, 3-21.	1.6	300
2	Mass detection in digital breast tomosynthesis: Deep convolutional neural network with transfer learning from mammography. <i>Medical Physics</i> , 2016, 43, 6654-6666.	3.0	232
3	Urinary bladder segmentation in CT urography using deep learning convolutional neural network and level sets. <i>Medical Physics</i> , 2016, 43, 1882-1896.	3.0	192
4	Computer-aided diagnosis in the era of deep learning. <i>Medical Physics</i> , 2020, 47, e218-e227.	3.0	154
5	Multi-task transfer learning deep convolutional neural network: application to computer-aided diagnosis of breast cancer on mammograms. <i>Physics in Medicine and Biology</i> , 2017, 62, 8894-8908.	3.0	151
6	Breast Cancer Diagnosis in Digital Breast Tomosynthesis: Effects of Training Sample Size on Multi-Stage Transfer Learning Using Deep Neural Nets. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 686-696.	8.9	147
7	Bladder Cancer Treatment Response Assessment in CT using Radiomics with Deep-Learning. <i>Scientific Reports</i> , 2017, 7, 8738.	3.3	144
8	CAD and AI for breast cancer—recent development and challenges. <i>British Journal of Radiology</i> , 2020, 93, 20190580.	2.2	100
9	Evolutionary pruning of transfer learned deep convolutional neural network for breast cancer diagnosis in digital breast tomosynthesis. <i>Physics in Medicine and Biology</i> , 2018, 63, 095005.	3.0	74
10	Bladder Cancer Segmentation in CT for Treatment Response Assessment: Application of Deep-Learning Convolution Neural Network—A Pilot Study. <i>Tomography</i> , 2016, 2, 421-429.	1.8	64
11	U-Net based deep learning bladder segmentation in CT urography. <i>Medical Physics</i> , 2019, 46, 1752-1765.	3.0	50
12	Diagnostic Accuracy of CT for Prediction of Bladder Cancer Treatment Response with and without Computerized Decision Support. <i>Academic Radiology</i> , 2019, 26, 1137-1145.	2.5	46
13	Computer-aided assessment of breast density: comparison of supervised deep learning and feature-based statistical learning. <i>Physics in Medicine and Biology</i> , 2018, 63, 025005.	3.0	44
14	Deep Learning Approach for Assessment of Bladder Cancer Treatment Response. <i>Tomography</i> , 2019, 5, 201-208.	1.8	38
15	A Novel Approach to Nodule Feature Optimization on Thin Section Thoracic CT. <i>Academic Radiology</i> , 2009, 16, 418-427.	2.5	37
16	Digital breast tomosynthesis: computer-aided detection of clustered microcalcifications on planar projection images. <i>Physics in Medicine and Biology</i> , 2014, 59, 7457-7477.	3.0	32
17	Computer-aided detection system for clustered microcalcifications in digital breast tomosynthesis using joint information from volumetric and planar projection images. <i>Physics in Medicine and Biology</i> , 2015, 60, 8457-8479.	3.0	28
18	Deep-learning convolution neural network for computer-aided detection of microcalcifications in digital breast tomosynthesis. <i>Proceedings of SPIE</i> , 2016, , .	0.8	28

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19	Computer-aided detection of clustered microcalcifications in multiscale bilateral filtering regularized reconstructed digital breast tomosynthesis volume. <i>Medical Physics</i> , 2014, 41, 021901.	3.0	25
20	Generalization error analysis for deep convolutional neural network with transfer learning in breast cancer diagnosis. <i>Physics in Medicine and Biology</i> , 2020, 65, 105002.	3.0	23
21	Multiscale bilateral filtering for improving image quality in digital breast tomosynthesis. <i>Medical Physics</i> , 2015, 42, 182-195.	3.0	20
22	Analysis of computer-aided detection techniques and signal characteristics for clustered microcalcifications on digital mammography and digital breast tomosynthesis. <i>Physics in Medicine and Biology</i> , 2016, 61, 7092-7112.	3.0	19
23	Multichannel response analysis on 2D projection views for detection of clustered microcalcifications in digital breast tomosynthesis. <i>Medical Physics</i> , 2014, 41, 041913.	3.0	17
24	Risks of feature leakage and sample size dependencies in deep feature extraction for breast mass classification. <i>Medical Physics</i> , 2021, 48, 2827-2837.	3.0	16
25	Deep-learning convolutional neural network: Inner and outer bladder wall segmentation in CT urography. <i>Medical Physics</i> , 2019, 46, 634-648.	3.0	15
26	Intraobserver Variability in Bladder Cancer Treatment Response Assessment With and Without Computerized Decision Support. <i>Tomography</i> , 2020, 6, 194-202.	1.8	13
27	Segmentation of inner and outer bladder wall using deep-learning convolutional neural network in CT urography. <i>Proceedings of SPIE</i> , 2017, , .	0.8	10
28	Cross-domain and multi-task transfer learning of deep convolutional neural network for breast cancer diagnosis in digital breast tomosynthesis. , 2018, , .		9
29	Improving image quality for digital breast tomosynthesis: an automated detection and diffusion-based method for metal artifact reduction. <i>Physics in Medicine and Biology</i> , 2017, 62, 7765-7783.	3.0	7
30	Computerized Decision Support for Bladder Cancer Treatment Response Assessment in CT Urography: Effect on Diagnostic Accuracy in Multi-Institution Multi-Specialty Study. <i>Tomography</i> , 2022, 8, 644-656.	1.8	5
31	Detection of microcalcifications in breast tomosynthesis reconstructed with multiscale bilateral filtering regularization. , 2013, , .		4
32	Computer-aided detection of bladder masses in CT urography (CTU). <i>Proceedings of SPIE</i> , 2017, , .	0.8	4
33	2D and 3D bladder segmentation using U-Net-based deep-learning. , 2019, , .		4
34	False positive reduction of microcalcification cluster detection in digital breast tomosynthesis. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3
35	Digital breast tomosynthesis: effects of projection-view distribution on computer-aided detection of microcalcification clusters. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3
36	Comparison of bladder segmentation using deep-learning convolutional neural network with and without level sets. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3

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37	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
38	Deblurring of tomosynthesis images using 3D anisotropic diffusion filtering. , 2007, , .		2
39	Study of image quality in digital breast tomosynthesis by subpixel reconstruction. , 2013, , .		2
40	Generalization error analysis: deep convolutional neural network in mammography. , 2018, , .		2
41	Knowledge based optimum feature selection for lung nodule diagnosis on thin section thoracic CT. Proceedings of SPIE, 2009, , .	0.8	1
42	Similarity based false-positive reduction for breast cancer using radiographic and pathologic imaging features. , 2010, , .		1
43	Gallbladder quantification in ultrasound using GVF snakes. , 2011, , .		1
44	Comparison of computer-aided detection of clustered microcalcifications in digital mammography and digital breast tomosynthesis. Proceedings of SPIE, 2015, , .	0.8	1
45	First and second-order features for detection of masses in digital breast tomosynthesis. Proceedings of SPIE, 2016, , .	0.8	1
46	Bladder cancer treatment response assessment using deep learning in CT with transfer learning. , 2017, , .		1
47	Identifying key radiogenomic associations between DCE-MRI and micro-RNA expressions for breast cancer. , 2017, , .		1
48	Compression of deep convolutional neural network for computer-aided diagnosis of masses in digital breast tomosynthesis. , 2018, , .		1
49	Comparative Study of Feature Measures for Histopathological Images of the Lung. , 2010, , .		1
50	Bladder cancer treatment response assessment in CT urography using two-channel deep-learning network. , 2018, , .		1
51	Reliability study of reconstruction methods in tomosynthesis imaging of various geometrical objects. Proceedings of SPIE, 2010, , .	0.8	0
52	Combinational feature optimization for classification of lung tissue images. Proceedings of SPIE, 2010, , .	0.8	0
53	Digital breast tomosynthesis: application of 2D digital mammography CAD to detection of microcalcification clusters on planar projection image. , 2015, , .		0
54	Reference state estimation of breast computed tomography for registration with digital mammography. Proceedings of SPIE, 2016, , .	0.8	0

#	ARTICLE	IF	CITATIONS
55	Image Processing Analytics: Enhancements and Segmentation. , 2021, , 1727-1745.		0
56	Computer-aided detection of bladder wall thickening in CT urography (CTU). , 2018, , .		0
57	Deep learning based bladder cancer treatment response assessment. , 2019, , .		0
58	Quantitative Imaging and Bladder Cancer. , 2021, , 1-32.		0