Heang-Ping Chan

List of Publications by Citations

356 papers	10,151 citations	58 h-index	88 g-index
430 ext. papers	11,829 ext. citations	5.6 avg, IF	5.88 L-index

#	Paper	IF	Citations
356	Classification of mass and normal breast tissue: a convolution neural network classifier with spatial domain and texture images. *IEEE Transactions on Medical Imaging*, **1996**, 15, 598-610	11.7	283
355	Improvement in radiologistsSdetection of clustered microcalcifications on mammograms. The potential of computer-aided diagnosis. *Investigative Radiology*, **1990**, 25, 1102-10	10.1	255
354	Improvement of radiologistsScharacterization of mammographic masses by using computer-aided diagnosis: an ROC study. *Radiology*, **1999**, 212, 817-27	20.5	220
353	Image feature analysis and computer-aided diagnosis in digital radiography. I. Automated detection of microcalcifications in mammography. *Medical Physics*, **1987**, 14, 538-48	4.4	209
352	Lung nodule detection on thoracic computed tomography images: preliminary evaluation of a computer-aided diagnosis system. *Medical Physics*, **2002**, 29, 2552-8	4.4	207
351	Anniversary paper: History and status of CAD and quantitative image analysis: the role of Medical Physics and AAPM. *Medical Physics*, **2008**, 35, 5799-820	4.4	186
350	A comparative study of limited-angle cone-beam reconstruction methods for breast tomosynthesis. *Medical Physics*, **2006**, 33, 3781-95	4.4	186
349	Artificial convolution neural network for medical image pattern recognition. *Neural Networks*, **1995** , 8, 1201-1214	9.1	185
348	Mass detection in digital breast tomosynthesis: Deep convolutional neural network with transfer learning from mammography. *Medical Physics*, **2016**, 43, 6654	4.4	170
347	Computer-aided classification of mammographic masses and normal tissue: linear discriminant analysis in texture feature space. *Physics in Medicine and Biology*, **1995**, 40, 857-76	3.8	167
346	Computerized characterization of masses on mammograms: the rubber band straightening transform and texture analysis. *Medical Physics*, **1998**, 25, 516-26	4.4	156
345	Computer-aided diagnosis of pulmonary nodules on CT scans: segmentation and classification using 3D active contours. *Medical Physics*, **2006**, 33, 2323-37	4.4	148
344	Urinary bladder segmentation in CT urography using deep-learning convolutional neural network and level sets. *Medical Physics*, **2016**, 43, 1882	4.4	147
343	Computerized analysis of mammographic microcalcifications in morphological and texture feature spaces. *Medical Physics*, **1998**, 25, 2007-19	4.4	141
342	Improvement of mammographic mass characterization using spiculation meausures and morphological features. *Medical Physics*, **2001**, 28, 1455-65	4.4	140
341	Computer-aided detection of mammographic microcalcifications: pattern recognition with an artificial neural network. *Medical Physics*, **1995**, 22, 1555-67	4.4	140
340	An adaptive density-weighted contrast enhancement filter for mammographic breast mass detection. *IEEE Transactions on Medical Imaging*, **1996**, 15, 59-67	11.7	138

339	Computerized image analysis: estimation of breast density on mammograms. *Medical Physics*, **2001**, 28, 1056-69	4.4	123
338	Digital breast tomosynthesis is comparable to mammographic spot views for mass characterization. *Radiology*, **2012**, 262, 61-8	20.5	121
337	Computer-aided characterization of mammographic masses: accuracy of mass segmentation and its effects on characterization. *IEEE Transactions on Medical Imaging*, **2001**, 20, 1275-84	11.7	121
336	Classifier design for computer-aided diagnosis: effects of finite sample size on the mean performance of classical and neural network classifiers. *Medical Physics*, **1999**, 26, 2654-68	4.4	119
335	Computer-aided diagnosis of pulmonary nodules on CT scans: improvement of classification performance with nodule surface features. *Medical Physics*, **2009**, 36, 3086-98	4.4	107
334	Mammographic density measured with quantitative computer-aided method: comparison with radiologistsSestimates and BI-RADS categories. *Radiology*, **2006**, 240, 656-65	20.5	105
333	Malignant and benign breast masses on 3D US volumetric images: effect of computer-aided diagnosis on radiologist accuracy. *Radiology*, **2007**, 242, 716-24	20.5	104
332	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	3.8	101
331	Computerized classification of malignant and benign microcalcifications on mammograms: texture analysis using an artificial neural network. *Physics in Medicine and Biology*, **1997**, 42, 549-67	3.8	101
330	Feature selection and classifier performance in computer-aided diagnosis: the effect of finite sample size. *Medical Physics*, **2000**, 27, 1509-22	4.4	96
329	Correlation between mammographic density and volumetric fibroglandular tissue estimated on breast MR images. *Medical Physics*, **2004**, 31, 933-42	4.4	95
328	Computer-aided detection system for breast masses on digital tomosynthesis mammograms: preliminary experience. *Radiology*, **2005**, 237, 1075-80	20.5	94
327	Bladder Cancer Treatment Response Assessment in CT using Radiomics with Deep-Learning. *Scientific Reports*, **2017**, 7, 8738	4.9	91
326	Sensitivity of noncommercial computer-aided detection system for mammographic breast cancer detection: pilot clinical trial. *Radiology*, **2004**, 231, 208-14	20.5	91
325	Digital Mammography. *Investigative Radiology*, **1987**, 22, 581-589	10.1	91
324	Image feature selection by a genetic algorithm: application to classification of mass and normal breast tissue. *Medical Physics*, **1996**, 23, 1671-84	4.4	86
323	Genome-wide association study identifies multiple loci associated with both mammographic density and breast cancer risk. *Nature Communications*, **2014**, 5, 5303	17.4	84
322	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	11.7	84

321	Automated detection of breast masses on mammograms using adaptive contrast enhancement and texture classification. *Medical Physics*, **1996**, 23, 1685-96	4.4	83
320	Deep Learning in Medical Image Analysis. *Advances in Experimental Medicine and Biology*, **2020**, 1213, 3-21	3.6	80
319	Characterization of mammographic masses based on level set segmentation with new image features and patient information. *Medical Physics*, **2008**, 35, 280-90	4.4	79
318	Classification of mass and normal breast tissue on digital mammograms: multiresolution texture analysis. *Medical Physics*, **1995**, 22, 1501-13	4.4	79
317	Improvement of computerized mass detection on mammograms: fusion of two-view information. *Medical Physics*, **2002**, 29, 238-47	4.4	78
316	Combined adaptive enhancement and region-growing segmentation of breast masses on digitized mammograms. *Medical Physics*, **1999**, 26, 1642-54	4.4	78
315	Evaluation of the transmitted exposure through lead equivalent aprons used in a radiology department, including the contribution from backscatter. *Medical Physics*, **2003**, 30, 1033-8	4.4	77
314	Classifier performance prediction for computer-aided diagnosis using a limited dataset. *Medical Physics*, **2008**, 35, 1559-70	4.4	76
313	The estimation of occupational effective dose in diagnostic radiology with two dosimeters. *Health Physics*, **1994**, 67, 611-5	2.3	75
312	Effect of CAD on radiologistsSdetection of lung nodules on thoracic CT scans: analysis of an observer performance study by nodule size. *Academic Radiology*, **2009**, 16, 1518-30	4.3	74
311	Computer-aided detection of breast masses on full field digital mammograms. *Medical Physics*, **2005**, 32, 2827-38	4.4	74
310	Improvement in radiologistsScharacterization of malignant and benign breast masses on serial mammograms with computer-aided diagnosis: an ROC study. *Radiology*, **2004**, 233, 255-65	20.5	73
309	Physical characteristics of scattered radiation in diagnostic radiology: Monte Carlo simulation studies. *Medical Physics*, **1985**, 12, 152-65	4.4	69
308	Evaluation of computer-aided detection and diagnosis systems. *Medical Physics*, **2013**, 40, 087001	4.4	68
307	Computer-aided detection of masses in digital tomosynthesis mammography: comparison of three approaches. *Medical Physics*, **2008**, 35, 4087-95	4.4	67
306	Breast cancer detection: evaluation of a mass-detection algorithm for computer-aided diagnosis -- experience in 263 patients. *Radiology*, **2002**, 224, 217-24	20.5	65
305	Assessment methodologies and statistical issues for computer-aided diagnosis of lung nodules in computed tomography: contemporary research topics relevant to the lung image database consortium. *Academic Radiology*, **2004**, 11, 462-75	4.3	63
304	Computer-aided detection of lung nodules: false positive reduction using a 3D gradient field method and 3D ellipsoid fitting. *Medical Physics*, **2005**, 32, 2443-54	4.4	62

303	Energy and angular dependence of x-ray absorption and its effect on radiographic response in screen--film systems. *Physics in Medicine and Biology*, **1983**, 28, 565-79	3.8	62
302	Computer aided detection of clusters of microcalcifications on full field digital mammograms. *Medical Physics*, **2006**, 33, 2975-88	4.4	61
301	Association of computerized mammographic parenchymal pattern measure with breast cancer risk: a pilot case-control study. *Radiology*, **2011**, 260, 42-9	20.5	60
300	Computer-aided diagnosis of lung cancer and pulmonary embolism in computed tomography-a review. *Academic Radiology*, **2008**, 15, 535-55	4.3	60
299	Digitization requirements in mammography: effects on computer-aided detection of microcalcifications. *Medical Physics*, **1994**, 21, 1203-11	4.4	59
298	Computerized characterization of breast masses on three-dimensional ultrasound volumes. *Medical Physics*, **2004**, 31, 744-54	4.4	56
297	Classification of malignant and benign masses based on hybrid ART2LDA approach. *IEEE Transactions on Medical Imaging*, **1999**, 18, 1178-87	11.7	56
296	Urinary bladder cancer staging in CT urography using machine learning. *Medical Physics*, **2017**, 44, 5814-5823	4.4	53
295	Optimal neural network architecture selection: improvement in computerized detection of microcalcifications. *Academic Radiology*, **2002**, 9, 420-9	4.3	52
294	Automatic multiscale enhancement and segmentation of pulmonary vessels in CT pulmonary angiography images for CAD applications. *Medical Physics*, **2007**, 34, 4567-77	4.4	51
293	Analysis of temporal changes of mammographic features: computer-aided classification of malignant and benign breast masses. *Medical Physics*, **2001**, 28, 2309-17	4.4	51
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291	Preliminary investigation of computer-aided detection of pulmonary embolism in three-dimensional computed tomography pulmonary angiography images. *Academic Radiology*, **2005**, 12, 782-92	4.3	47
290	Bladder Cancer Segmentation in CT for Treatment Response Assessment: Application of Deep-Learning Convolution Neural Network-A Pilot Study. *Tomography*, **2016**, 2, 421-429	3.1	46
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286	Effect of CT scanning parameters on volumetric measurements of pulmonary nodules by 3D active contour segmentation: a phantom study. *Physics in Medicine and Biology*, **2008**, 53, 1295-312	3.8	44

285	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	3.8	43
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283	Investigation of the performance of antiscatter grids: Monte Carlo simulation studies. *Physics in Medicine and Biology*, **1982**, 27, 785-803	3.8	43
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281	Design of a high-sensitivity classifier based on a genetic algorithm: application to computer-aided diagnosis. *Physics in Medicine and Biology*, **1998**, 43, 2853-71	3.8	41
280	Computer-aided diagnosis in chest radiology. *Journal of Thoracic Imaging*, **1990**, 5, 67-76	5.6	41
279	Digital breast tomosynthesis: observer performance of clustered microcalcification detection on breast phantom images acquired with an experimental system using variable scan angles, angular increments, and number of projection views. *Radiology*, **2014**, 273, 675-85	20.5	38
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277	Computer-aided detection of clustered microcalcifications in digital breast tomosynthesis: a 3D approach. *Medical Physics*, **2012**, 39, 28-39	4.4	38
276	Computer-aided detection of breast masses on mammograms: dual system approach with two-view analysis. *Medical Physics*, **2009**, 36, 4451-60	4.4	38
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274	Computer-aided diagnosis in the era of deep learning. *Medical Physics*, **2020**, 47, e218-e227	4.4	36
273	Monte Carlo simulation studies of detectors used in the measurement of diagnostic x-ray spectra. *Medical Physics*, **1980**, 7, 627-35	4.4	36
272	Breast masses: computer-aided diagnosis with serial mammograms. *Radiology*, **2006**, 240, 343-56	20.5	35
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270	Automated volume analysis of head and neck lesions on CT scans using 3D level set segmentation. *Medical Physics*, **2007**, 34, 4399-408	4.4	34
269	CAD and AI for breast cancer-recent development and challenges. *British Journal of Radiology*, **2020** , 93, 20190580	3.4	34
268	Digital breast tomosynthesis: studies of the effects of acquisition geometry on contrast-to-noise ratio and observer preference of low-contrast objects in breast phantom images. *Physics in Medicine and Biology*, **2014**, 59, 5883-902	3.8	33

267	Accuracy of the CT numbers of simulated lung nodules imaged with multi-detector CT scanners. *Medical Physics*, **2006**, 33, 3006-17	4.4	33
266	Advances in computer-aided diagnosis for breast cancer. *Current Opinion in Obstetrics and Gynecology*, **2006**, 18, 64-70	2.4	33
265	Comparison of similarity measures for the task of template matching of masses on serial mammograms. *Medical Physics*, **2005**, 32, 515-29	4.4	33
264	Analysis of uncertainties in estimates of components of variance in multivariate ROC analysis. *Academic Radiology*, **2001**, 8, 616-22	4.3	33
263	Standardization in Quantitative Imaging: A Multicenter Comparison of Radiomic Features from Different Software Packages on Digital Reference Objects and Patient Data Sets. *Tomography*, **2020**, 6, 118-128	3.1	32
262	A new automated method for the segmentation and characterization of breast masses on ultrasound images. *Medical Physics*, **2009**, 36, 1553-65	4.4	31
261	Computer-aided assessment of breast density: comparison of supervised deep learning and feature-based statistical learning. *Physics in Medicine and Biology*, **2018**, 63, 025005	3.8	31
260	Automated iterative neutrosophic lung segmentation for image analysis in thoracic computed tomography. *Medical Physics*, **2013**, 40, 081912	4.4	30
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257	A regional registration technique for automated interval change analysis of breast lesions on mammograms. *Medical Physics*, **1999**, 26, 2669-79	4.4	30
256	Adverse effects of increased body weight on quantitative measures of mammographic image quality. *American Journal of Roentgenology*, **2000**, 175, 805-10	5.4	29
255	Image quality of microcalcifications in digital breast tomosynthesis: effects of projection-view distributions. *Medical Physics*, **2011**, 38, 5703-12	4.4	28
254	Basic imaging properties of a large image intensifier-TV digital chest radiographic system. *Investigative Radiology*, **1987**, 22, 328-35	10.1	28
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245	Dual system approach to computer-aided detection of breast masses on mammograms. *Medical Physics*, **2006**, 33, 4157-68	4.4	24
244	Similarity evaluation in a content-based image retrieval (CBIR) CADx system for characterization of breast masses on ultrasound images. *Medical Physics*, **2011**, 38, 1820-31	4.4	23
243	U-Net based deep learning bladder segmentation in CT urography. *Medical Physics*, **2019**, 46, 1752-1765	4.4	22
242	Aromatase inhibitor-induced modulation of breast density: clinical and genetic effects. *British Journal of Cancer*, **2013**, 109, 2331-9	8.7	22
241	Characterization of masses in digital breast tomosynthesis: comparison of machine learning in projection views and reconstructed slices. *Medical Physics*, **2010**, 37, 3576-86	4.4	22
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239	Effects of x-ray beam equalization on mammographic imaging. *Medical Physics*, **1990**, 17, 242-9	4.4	22
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232	Computer-aided detection of breast masses: four-view strategy for screening mammography. *Medical Physics*, **2011**, 38, 1867-76	4.4	20

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228	Computer-aided detection of clustered microcalcifications in multiscale bilateral filtering regularized reconstructed digital breast tomosynthesis volume. *Medical Physics*, **2014**, 41, 021901	4.4	19
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226	Investigation of basic imaging properties in digital radiography. 5. Characteristic curves of II-TV digital systems. *Medical Physics*, **1986**, 13, 13-8	4.4	19
225	Automated Tracking Of The Vascular Tree In DSA Images Using A Double-Square-Box Region-Of-Search Algorithm **1986**, 0626, 326		19
224	Deep-learning convolution neural network for computer-aided detection of microcalcifications in digital breast tomosynthesis **2016**,		19
223	Deep Learning Approach for Assessment of Bladder Cancer Treatment Response. *Tomography*, **2019**, 5, 201-208	3.1	18
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221	Computer-aided detection system for clustered microcalcifications: comparison of performance on full-field digital mammograms and digitized screen-film mammograms. *Physics in Medicine and Biology*, **2007**, 52, 981-1000	3.8	18
220	Investigation of basic imaging properties in digital radiography. 8. Detection of simulated low-contrast objects in digital subtraction angiographic images. *Medical Physics*, **1986**, 13, 304-11	4.4	18
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217	Quality assurance and training procedures for computer-aided detection and diagnosis systems in clinical use. *Medical Physics*, **2013**, 40, 077001	4.4	17
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215	An Empirical Investigation Of Variability In Contrast-Detail Diagram Measurements **1983**, 0419, 68		17
214	Finite-sample effects and resampling plans: applications to linear classifiers in computer-aided diagnosis **1997**, 3034, 467		16

213	Quasi-continuous and discrete confidence rating scales for observer performance studies: Effects on ROC analysis. *Academic Radiology*, **2007**, 14, 38-48	4.3	16
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206	Computerized image analysis: texture-field orientation method for pectoral muscle identification on MLO-view mammograms. *Medical Physics*, **2010**, 37, 2289-99	4.4	14
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203	Automated segmentation of regions of interest on hand radiographs. *Medical Physics*, **1994**, 21, 1293-300	4.4	14
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198	Stereomammography: evaluation of depth perception using a virtual 3D cursor. *Medical Physics*, **2000**, 27, 1305-10	4.4	13
197	Some properties of photon scattering in water phantoms in diagnostic radiology. *Medical Physics*, **1986**, 13, 824-30	4.4	13
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190	Detector Blur and Correlated Noise Modeling for Digital Breast Tomosynthesis Reconstruction. *IEEE Transactions on Medical Imaging*, **2018**, 37, 116-127	11.7	11
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188	Quantitative CT of lung nodules: dependence of calibration on patient body size, anatomic region, and calibration nodule size for single- and dual-energy techniques. *Medical Physics*, **2009**, 36, 3107-21	4.4	11
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179	Urinary bladder segmentation in CT urography (CTU) using CLASS. *Medical Physics*, **2013**, 40, 111906	4.4	9
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177	Tomosynthesis reconstruction using the simultaneous algebraic reconstruction technique (SART) on breast phantom data **2006**, 6142, 1391		9
176	Effect of CAD on radiologistsSdetection of lung nodules on thoracic CT scans: observer performance study **2007**,		9
175	A diffusion-based truncated projection artifact reduction method for iterative digital breast tomosynthesis reconstruction. *Physics in Medicine and Biology*, **2013**, 58, 569-87	3.8	8
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