

Sandy Napel

List of Publications by Year in descending order

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128
papers

10,696
citations

50170

46
h-index

32761

100
g-index

129
all docs

129
docs citations

129
times ranked

10599
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning approach to differentiation of peripheral schwannomas and neurofibromas: A multi-center study. <i>Neuro-Oncology</i> , 2022, 24, 601-609.	0.6	8
2	Radiomic features quantifying pixel-level characteristics of breast tumors from magnetic resonance imaging predict risk factors in triple-negative breast cancer.. <i>Journal of Clinical Oncology</i> , 2022, 40, e12612-e12612.	0.8	0
3	The Medical Segmentation Decathlon. <i>Nature Communications</i> , 2022, 13, .	5.8	252
4	MRI-based radiomics for prognosis of pediatric diffuse intrinsic pontine glioma: an international study. <i>Neuro-Oncology Advances</i> , 2021, 3, vdab042.	0.4	14
5	Machine Learning Radiomics Model for Early Identification of Small-Cell Lung Cancer on Computed Tomography Scans. <i>JCO Clinical Cancer Informatics</i> , 2021, 5, 746-757.	1.0	7
6	Machine-Learning Approach to Differentiation of Benign and Malignant Peripheral Nerve Sheath Tumors: A Multicenter Study. <i>Neurosurgery</i> , 2021, 89, 509-517.	0.6	7
7	Quantitative image features from radiomic biopsy differentiate oncocytoma from chromophobe renal cell carcinoma. <i>Journal of Medical Imaging</i> , 2021, 8, 054501.	0.8	3
8	Lung Nodule Malignancy Prediction in Sequential CT Scans: Summary of ISBI 2018 Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3748-3761.	5.4	13
9	Pipelines in Image Analysis. , 2021, , 1-16.		0
10	Radiomics Signatures of Cardiovascular Risk Factors in Cardiac MRI: Results From the UK Biobank. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 591368.	1.1	32
11	Interreader Variability in Semantic Annotation of Microvascular Invasion in Hepatocellular Carcinoma on Contrast-enhanced Triphasic CT Images. <i>Radiology Imaging Cancer</i> , 2020, 2, e190062.	0.7	7
12	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. <i>Radiology</i> , 2020, 295, 328-338.	3.6	1,869
13	A shallow convolutional neural network predicts prognosis of lung cancer patients in multi-institutional computed tomography image datasets. <i>Nature Machine Intelligence</i> , 2020, 2, 274-282.	8.3	54
14	Quantitative imaging feature pipeline: a web-based tool for utilizing, sharing, and building image-processing pipelines. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	0.8	19
15	Stanford DRO Toolkit: Digital Reference Objects for Standardization of Radiomic Features. <i>Tomography</i> , 2020, 6, 111-117.	0.8	13
16	The utility of three-dimensional models in complex microsurgical reconstruction. <i>Archives of Plastic Surgery</i> , 2020, 47, 428-434.	0.4	16
17	A Radiomics Approach to Analyze Cardiac Alterations in Hypertension. , 2019, , .		11
18	Stability and reproducibility of computed tomography radiomic features extracted from peritumoral regions of lung cancer lesions. <i>Medical Physics</i> , 2019, 46, 5075-5085.	1.6	49

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19	Bone Marrow and Tumor Radiomics at ¹⁸ F-FDG PET/CT: Impact on Outcome Prediction in Non-Small Cell Lung Cancer. <i>Radiology</i> , 2019, 293, 451-459.	3.6	48
20	[18F] FDG Positron Emission Tomography (PET) Tumor and Penumbra Imaging Features Predict Recurrence in Non-Small Cell Lung Cancer. <i>Tomography</i> , 2019, 5, 145-153.	0.8	29
21	Semi-automated pulmonary nodule interval segmentation using the NLST data. <i>Medical Physics</i> , 2018, 45, 1093-1107.	1.6	17
22	Intratumoral Spatial Heterogeneity at Perfusion MR Imaging Predicts Recurrence-free Survival in Locally Advanced Breast Cancer Treated with Neoadjuvant Chemotherapy. <i>Radiology</i> , 2018, 288, 26-35.	3.6	102
23	Non-Small Cell Lung Cancer Radiogenomics Map Identifies Relationships between Molecular and Imaging Phenotypes with Prognostic Implications. <i>Radiology</i> , 2018, 286, 307-315.	3.6	140
24	Radiomics in Brain Tumor: Image Assessment, Quantitative Feature Descriptors, and Machine-Learning Approaches. <i>American Journal of Neuroradiology</i> , 2018, 39, 208-216.	1.2	281
25	Quantitative Image Feature Engine (QIFE): an Open-Source, Modular Engine for 3D Quantitative Feature Extraction from Volumetric Medical Images. <i>Journal of Digital Imaging</i> , 2018, 31, 403-414.	1.6	39
26	A radiogenomic dataset of non-small cell lung cancer. <i>Scientific Data</i> , 2018, 5, 180202.	2.4	167
27	Quantitative imaging of cancer in the postgenomic era: Radio(genomics), deep learning, and habitats. <i>Cancer</i> , 2018, 124, 4633-4649.	2.0	125
28	Magnetic resonance imaging and molecular features associated with tumor-infiltrating lymphocytes in breast cancer. <i>Breast Cancer Research</i> , 2018, 20, 101.	2.2	44
29	GFPT2-Expressing Cancer-Associated Fibroblasts Mediate Metabolic Reprogramming in Human Lung Adenocarcinoma. <i>Cancer Research</i> , 2018, 78, 3445-3457.	0.4	75
30	Deep Learning Techniques for Automatic MRI Cardiac Multi-Structures Segmentation and Diagnosis: Is the Problem Solved?. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 2514-2525.	5.4	926
31	Radiogenomics is the future of treatment response assessment in clinical oncology. <i>Medical Physics</i> , 2018, 45, 4325-4328.	1.6	8
32	Adaptive local window for level set segmentation of CT and MRI liver lesions. <i>Medical Image Analysis</i> , 2017, 37, 46-55.	7.0	59
33	Predictive radiogenomics modeling of EGFR mutation status in lung cancer. <i>Scientific Reports</i> , 2017, 7, 41674.	1.6	124
34	Variations in the functional visual field for detection of lung nodules on chest computed tomography: Impact of nodule size, distance, and local lung complexity. <i>Medical Physics</i> , 2017, 44, 3483-3490.	1.6	15
35	Heterogeneous Enhancement Patterns of Tumor-adjacent Parenchyma at MR Imaging Are Associated with Dysregulated Signaling Pathways and Poor Survival in Breast Cancer. <i>Radiology</i> , 2017, 285, 401-413.	3.6	92
36	Noninvasive radiomics signature based on quantitative analysis of computed tomography images as a surrogate for microvascular invasion in hepatocellular carcinoma: a pilot study. <i>Journal of Medical Imaging</i> , 2017, 4, 1.	0.8	57

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37	Prediction of EGFR and KRAS mutation in non-small cell lung cancer using quantitative 18F FDG-PET/CT metrics. <i>Oncotarget</i> , 2017, 8, 52792-52801.	0.8	32
38	Radiomics of Lung Nodules: A Multi-Institutional Study of Robustness and Agreement of Quantitative Imaging Features. <i>Tomography</i> , 2016, 2, 430-437.	0.8	108
39	A Rapid Segmentation-Insensitive "Digital Biopsy" Method for Radiomic Feature Extraction: Method and Pilot Study Using CT Images of Non-Small Cell Lung Cancer. <i>Tomography</i> , 2016, 2, 283-294.	0.8	20
40	Robust Intratumor Partitioning to Identify High-Risk Subregions in Lung Cancer: A Pilot Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 95, 1504-1512.	0.4	71
41	A Comparison of Lung Nodule Segmentation Algorithms: Methods and Results from a Multi-institutional Study. <i>Journal of Digital Imaging</i> , 2016, 29, 476-487.	1.6	68
42	Special Section Guest Editorial:Radiomics and Imaging Genomics: Quantitative Imaging for Precision Medicine. <i>Journal of Medical Imaging</i> , 2015, 2, 041001.	0.8	17
43	Core samples for radiomics features that are insensitive to tumor segmentation: method and pilot study using CT images of hepatocellular carcinoma. <i>Journal of Medical Imaging</i> , 2015, 2, 041011.	0.8	50
44	Characterizing Search, Recognition, and Decision in the Detection of Lung Nodules on CT Scans: Elucidation with Eye Tracking. <i>Radiology</i> , 2015, 274, 276-286.	3.6	77
45	Content-based image retrieval in radiology: analysis of variability in human perception of similarity. <i>Journal of Medical Imaging</i> , 2015, 2, 025501.	0.8	12
46	Magnetic resonance image features identify glioblastoma phenotypic subtypes with distinct molecular pathway activities. <i>Science Translational Medicine</i> , 2015, 7, 303ra138.	5.8	227
47	NCI Workshop Report: Clinical and Computational Requirements for Correlating Imaging Phenotypes with Genomics Signatures. <i>Translational Oncology</i> , 2014, 7, 556-569.	1.7	69
48	A hierarchical knowledge-based approach for retrieving similar medical images described with semantic annotations. <i>Journal of Biomedical Informatics</i> , 2014, 49, 227-244.	2.5	33
49	Glioblastoma Multiforme: Exploratory Radiogenomic Analysis by Using Quantitative Image Features. <i>Radiology</i> , 2014, 273, 168-174.	3.6	265
50	Predicting Visual Semantic Descriptive Terms From Radiological Image Data: Preliminary Results With Liver Lesions in CT. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 1669-1676.	5.4	40
51	On combining image-based and ontological semantic dissimilarities for medical image retrieval applications. <i>Medical Image Analysis</i> , 2014, 18, 1082-1100.	7.0	40
52	CT Angiography after 20 Years: A Transformation in Cardiovascular Disease Characterization Continues to Advance. <i>Radiology</i> , 2014, 271, 633-652.	3.6	98
53	Modeling Perceptual Similarity Measures in CT Images of Focal Liver Lesions. <i>Journal of Digital Imaging</i> , 2013, 26, 714-720.	1.6	7
54	Quantifying the margin sharpness of lesions on radiological images for content-based image retrieval. <i>Medical Physics</i> , 2012, 39, 5405-5418.	1.6	28

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55	Accuracy of a Remote Eye Tracker for Radiologic Observer Studies. <i>Academic Radiology</i> , 2012, 19, 196-202.	1.3	8
56	Prognostic PET 18F-FDG Uptake Imaging Features Are Associated with Major Oncogenomic Alterations in Patients with Resected Non-Small Cell Lung Cancer. <i>Cancer Research</i> , 2012, 72, 3725-3734.	0.4	111
57	Non-Small Cell Lung Cancer: Identifying Prognostic Imaging Biomarkers by Leveraging Public Gene Expression Microarray Data—Methods and Preliminary Results. <i>Radiology</i> , 2012, 264, 387-396.	3.6	384
58	A Comprehensive Descriptor of Shape: Method and Application to Content-Based Retrieval of Similar Appearing Lesions in Medical Images. <i>Journal of Digital Imaging</i> , 2012, 25, 121-128.	1.6	27
59	On the Feasibility of Predicting Radiological Observations from Computational Imaging Features of Liver Lesions in CT Scans. , 2011, . .		9
60	Content-Based Image Retrieval in Radiology: Current Status and Future Directions. <i>Journal of Digital Imaging</i> , 2011, 24, 208-222.	1.6	321
61	Managing Biomedical Image Metadata for Search and Retrieval of Similar Images. <i>Journal of Digital Imaging</i> , 2011, 24, 739-748.	1.6	29
62	Automated Tracing of the Adventitial Contour of Aortoiliac and Peripheral Arterial Walls in CT Angiography (CTA) to Allow Calculation of Non-calcified Plaque Burden. <i>Journal of Digital Imaging</i> , 2011, 24, 1078-1086.	1.6	6
63	Automated temporal tracking and segmentation of lymphoma on serial CT examinations. <i>Medical Physics</i> , 2011, 38, 5879-5886.	1.6	15
64	Computer-aided detection (CAD) of lung nodules in CT scans: radiologist performance and reading time with incremental CAD assistance. <i>European Radiology</i> , 2010, 20, 549-557.	2.3	62
65	Assessing operating characteristics of CAD algorithms in the absence of a gold standard. <i>Medical Physics</i> , 2010, 37, 1788-1795.	1.6	5
66	Automated Quantification of Aortoortic and Aortoiliac Angulation for Computed Tomographic Angiography of Abdominal Aortic Aneurysms before Endovascular Repair: Preliminary Study. <i>Journal of Vascular and Interventional Radiology</i> , 2010, 21, 1746-1750.	0.2	7
67	Uncluttered single-image visualization of the abdominal aortic vessel tree: Method and evaluation. <i>Medical Physics</i> , 2009, 36, 5245-5260.	1.6	7
68	Dual-energy CT Discrimination of Iodine and Calcium. <i>Academic Radiology</i> , 2009, 16, 160-171.	1.3	82
69	Lower Extremity CT Angiography (CTA). <i>Academic Radiology</i> , 2009, 16, 646-653.	1.3	8
70	Learning-enhanced simulated annealing: method, evaluation, and application to lung nodule registration. <i>Applied Intelligence</i> , 2008, 28, 83-99.	3.3	12
71	Adaptive border marching algorithm: Automatic lung segmentation on chest CT images. <i>Computerized Medical Imaging and Graphics</i> , 2008, 32, 452-462.	3.5	164
72	Semiautomated Quantification of the Mass and Distribution of Vascular Calcification with Multidetector CT: Method and Evaluation. <i>Radiology</i> , 2008, 247, 241-250.	3.6	8

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73	An improved algorithm for femoropopliteal artery centerline restoration using prior knowledge of shapes and image space data. <i>Medical Physics</i> , 2008, 35, 3372-3382.	1.6	1
74	Improved Speed of Bone Removal in Computed Tomographic Angiography Using Automated Targeted Morphological Separation. <i>Journal of Computer Assisted Tomography</i> , 2008, 32, 485-491.	0.5	6
75	Femoropopliteal artery centerline interpolation using contralateral shape. <i>Medical Physics</i> , 2007, 34, 3428-3435.	1.6	3
76	A directional distance aided method for medical image segmentation. <i>Medical Physics</i> , 2007, 34, 4962-4976.	1.6	1
77	Transparent Rendering of Intraluminal Contrast for 3D Polyp Visualization at CT Colonography. <i>Journal of Computer Assisted Tomography</i> , 2007, 31, 773-779.	0.5	0
78	Registration of lung nodules using a semi-rigid model: Method and preliminary results. <i>Medical Physics</i> , 2007, 34, 613-626.	1.6	10
79	Polyp Enhancing Level Set Evolution of Colon Wall: Method and Pilot Study. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 1649-1656.	5.4	23
80	Knowledge-based interpolation of curves: Application to femoropopliteal arterial centerline restoration. <i>Medical Image Analysis</i> , 2007, 11, 157-168.	7.0	7
81	CT Colonography: Influence of 3D Viewing and Polyp Candidate Features on Interpretation with Computer-aided Detection. <i>Radiology</i> , 2006, 239, 768-776.	3.6	26
82	An abdominal aortic aneurysm segmentation method: Level set with region and statistical information. <i>Medical Physics</i> , 2006, 33, 1440-1453.	1.6	60
83	Targeted 2D/3D registration using ray normalization and a hybrid optimizer. <i>Medical Physics</i> , 2006, 33, 4730-4738.	1.6	16
84	"Flying through" and "flying around" a PET/CT scan: Pilot study and development of 3D integrated 18F-FDG PET/CT for virtual bronchoscopy and colonoscopy. <i>Journal of Nuclear Medicine</i> , 2006, 47, 1081-7.	2.8	19
85	Pulmonary Nodules on Multi-detector Row CT Scans: Performance Comparison of Radiologists and Computer-aided Detection. <i>Radiology</i> , 2005, 234, 274-283.	3.6	244
86	Alternative Input Devices for Efficient Navigation of Large CT Angiography Data Sets. <i>Radiology</i> , 2005, 234, 391-398.	3.6	24
87	Registration of central paths and colonic polyps between supine and prone scans in computed tomography colonography: Pilot study. <i>Medical Physics</i> , 2004, 31, 2912-2923.	1.6	42
88	Automatic detection and classification of hypodense hepatic lesions on contrast-enhanced venous-phase CT. <i>Medical Physics</i> , 2004, 31, 2584-2593.	1.6	56
89	Surface Normal Overlap: A Computer-Aided Detection Algorithm With Application to Colonic Polyps and Lung Nodules in Helical CT. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 661-675.	5.4	221
90	Computed Tomography Colonography. <i>Journal of Computer Assisted Tomography</i> , 2004, 28, 318-326.	0.5	64

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91	Semiautomated segmentation of blood vessels using ellipse-overlap criteria: Method and comparison to manual editing. <i>Medical Physics</i> , 2003, 30, 2572-2583.	1.6	0
92	CT colonography: Does improved resolution help computer-aided polyp detection?. <i>Medical Physics</i> , 2003, 30, 2663-2674.	1.6	9
93	Curved-Slab Maximum Intensity Projection: Method and Evaluation. <i>Radiology</i> , 2003, 229, 255-260.	3.6	28
94	Quantification of Distention in CT Colonography: Development and Validation of Three Computer Algorithms. <i>Radiology</i> , 2002, 222, 543-554.	3.6	11
95	Automated Generation of Curved Planar Reformations from Volume Data: Method and Evaluation. <i>Radiology</i> , 2002, 223, 275-280.	3.6	51
96	Carotid Disease: Automated Analysis with Cardiac-gated Three-dimensional USâ€”Technique and Preliminary Results. <i>Radiology</i> , 2002, 222, 560-563.	3.6	6
97	Edge displacement field-based classification for improved detection of polyps in CT colonography. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 1461-1467.	5.4	86
98	Prediction of Aortoiliac Stent-Graft Length: Comparison of Measurement Methods. <i>Radiology</i> , 2001, 220, 475-483.	3.6	37
99	Cost Identification of Abdominal Aortic Aneurysm Imaging by Using Time and Motion Analyses. <i>Radiology</i> , 2000, 215, 63-70.	3.6	45
100	Stair-Step Artifacts with Single versus Multiple Detector-Row Helical CT. <i>Radiology</i> , 2000, 216, 185-196.	3.6	95
101	Automated Polyp Detector for CT Colonography: Feasibility Study. <i>Radiology</i> , 2000, 216, 284-290.	3.6	214
102	Computed tomography and magnetic resonance colonography (Virtual colonoscopy). <i>Techniques in Gastrointestinal Endoscopy</i> , 2000, 2, 30-36.	0.3	2
103	Visualization Modes for CT Colonography Using Cylindrical and Planar Map Projections. <i>Journal of Computer Assisted Tomography</i> , 2000, 24, 179-188.	0.5	81
104	Display Modes for CT Colonography. <i>Radiology</i> , 1999, 212, 195-201.	3.6	35
105	Display Modes for CT Colonography. <i>Radiology</i> , 1999, 212, 203-212.	3.6	117
106	Spatially varying longitudinal aliasing and resolution in spiral computed tomography. <i>Medical Physics</i> , 1999, 26, 2617-2625.	1.6	22
107	Modeling of polychromatic attenuation using computed tomography reconstructed images. <i>Medical Physics</i> , 1999, 26, 631-642.	1.6	20
108	Fast 3D Cardiac Cine MR Imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 9, 751-755.	1.9	39

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109	Automated flight path planning for virtual endoscopy. <i>Medical Physics</i> , 1998, 25, 629-637.	1.6	145
110	A new frame-based registration algorithm. <i>Medical Physics</i> , 1998, 25, 121-128.	1.6	6
111	Detection of Colonic Polyps in a Phantom Model: Implications for Virtual Colonoscopy Data Acquisition. <i>Journal of Computer Assisted Tomography</i> , 1998, 22, 656-663.	0.5	45
112	Virtual Endoscopy of the Paranasal Sinuses Using Perspective Volume Rendered Helical Sinus Computed Tomography. <i>Laryngoscope</i> , 1997, 107, 25-29.	1.1	59
113	Comparison and Evaluation of Retrospective Intermodality Brain Image Registration Techniques. <i>Journal of Computer Assisted Tomography</i> , 1997, 21, 554-568.	0.5	743
114	Mr geometric distortion correction for improved frame-based stereotaxic target localization accuracy. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 106-113.	1.9	52
115	Registration error quantification of a surface-based multimodality image fusion system. <i>Medical Physics</i> , 1995, 22, 1049-1056.	1.6	34
116	A Versatile System for Multimodality Image Fusion. <i>Computer Aided Surgery</i> , 1995, 1, 35-45.	1.8	2
117	Method for Correcting Magnetic Resonance Image Distortion for Frame-Based Stereotactic Surgery, with Preliminary Results. <i>Computer Aided Surgery</i> , 1995, 1, 151-157.	1.8	1
118	A versatile system for multimodality image fusion. <i>Journal of Image Guided Surgery</i> , 1995, 1, 35-45.	0.4	9
119	Method for correcting magnetic resonance image distortion for frame-based stereotactic surgery, with preliminary results. <i>Journal of Image Guided Surgery</i> , 1995, 1, 151-157.	0.4	19
120	Quantifying MRI geometric distortion in tissue. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 40-47.	1.9	125
121	Characterization of Spatial Distortion in Magnetic Resonance Imaging and Its Implications for Stereotactic Surgery. <i>Neurosurgery</i> , 1994, 35, 696-704.	0.6	257
122	Single Breath-Hold Pulmonary Magnetic Resonance Angiography. <i>Investigative Radiology</i> , 1994, 29, 766-772.	3.5	21
123	Noise reduction in three-dimensional phase-contrast MR velocity measurements. <i>Journal of Magnetic Resonance Imaging</i> , 1993, 3, 587-596.	1.9	45
124	Artifacts and illusions in surface and volume rendering. , 1992, , .		1
125	Visualizing three-dimensional flow with simulated streamlines and three-dimensional phase-contrast MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1992, 2, 143-153.	1.9	103
126	Fast Fourier projection for MR angiography. <i>Magnetic Resonance in Medicine</i> , 1991, 19, 393-405.	1.9	19

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127	Measurement of Cardiac Output by Computed Transmission Tomography. Investigative Radiology, 1982, 17, 550-553.	3.5	16
128	Deep Learning Techniques for Automatic MRI Cardiac Multi-Structures Segmentation and Diagnosis: Is the Problem Solved?. , 0, .		1