Charles E Kahn Jr

List of Publications by Year
in descending order

134	3,944	159585 30	138484 58
papers	citations	h-index	g-index

136	136	136	4183
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Checklist for Artificial Intelligence in Medical Imaging (CLAIM): A Guide for Authors and Reviewers. Radiology: Artificial Intelligence, 2020, 2, e200029.	5.8	541
2	Superior temporal gyrus and the course of early schizophrenia: Progressive, static, or reversible?. Journal of Psychiatric Research, 1998, 32, 161-167.	3.1	186
3	Toward Best Practices in Radiology Reporting. Radiology, 2009, 252, 852-856.	7.3	186
4	Construction of a Bayesian network for mammographic diagnosis of breast cancer. Computers in Biology and Medicine, 1997, 27, 19-29.	7.0	141
5	Comparison of Logistic Regression and Artificial Neural Network Models in Breast Cancer Risk Estimation. Radiographics, 2010, 30, 13-22.	3.3	136
6	Automatic segmentation of liver structure in CT images. Medical Physics, 1993, 20, 71-78.	3.0	125
7	Breast cancer risk estimation with artificial neural networks revisited. Cancer, 2010, 116, 3310-3321.	4.1	103
8	To buy or not to buyâ€"evaluating commercial AI solutions in radiology (the ECLAIR guidelines). European Radiology, 2021, 31, 3786-3796.	4.5	92
9	ACCF/ACR/AHA/ASE/ASNC/HRS/NASCI/RSNA/SAIP/SCAI/SCCT/SCMR 2008 Health Policy Statement on Structured Reporting in Cardiovascular Imaging. Journal of the American College of Cardiology, 2009, 53, 76-90.	2.8	90
10	Probabilistic Computer Model Developed from Clinical Data in National Mammography Database Format to Classify Mammographic Findings. Radiology, 2009, 251, 663-672.	7.3	82
11	Reporting Initiative of the Radiological Society of North America: Progress and New Directions. Radiology, 2014, 273, 642-645.	7.3	80
12	Actionable Findings and the Role of IT Support: Report of the ACR Actionable Reporting Work Group. Journal of the American College of Radiology, 2014, 11, 552-558.	1.8	80
13	GoldMiner: A Radiology Image Search Engine. American Journal of Roentgenology, 2007, 188, 1475-1478.	2.2	78
14	Artificial intelligence in radiology: decision support systems.. Radiographics, 1994, 14, 849-861.	3.3	77
15	A quality assessment tool for artificial intelligence-centered diagnostic test accuracy studies: QUADAS-AI. Nature Medicine, 2021, 27, 1663-1665.	30.7	76
16	From Guidelines to Practice: How Reporting Templates Promote the Use of Radiology Practice Guidelines. Journal of the American College of Radiology, 2013, 10, 268-273.	1.8	75
17	A Logistic Regression Model Based on the National Mammography Database Format to Aid Breast Cancer Diagnosis. American Journal of Roentgenology, 2009, 192, 1117-1127.	2.2	74
18	Common Data Elements in Radiology. Radiology, 2017, 283, 837-844.	7.3	74

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19	From Images to Actions: Opportunities for Artificial Intelligence in Radiology. Radiology, 2017, 285, 719-720.	7.3	70
20	Overview of the CLEF 2009 Medical Image Retrieval Track. Lecture Notes in Computer Science, 2010, , 72-84.	1.3	65
21	DICOM and Radiology: Past, Present, and Future. Journal of the American College of Radiology, 2007, 4, 652-657.	1.8	61
22	PORTER: a Prototype System for Patient-Oriented Radiology Reporting. Journal of Digital Imaging, 2016, 29, 450-454.	2.9	54
23	Structured reporting: a fusion reactor hungry for fuel. Insights Into Imaging, 2015, 6, 129-132.	3.4	48
24	How Might AI and Chest Imaging Help Unravel COVID-19â€™s Mysteries?. Radiology: Artificial Intelligence, 2020, 2, e200053.	5.8	47
25	Vena Tech Vena Cava Filter: Experience and Early Follow-up. Journal of Vascular and Interventional Radiology, 1991, 2, 435-440.	0.5	40
26	Data Science: Big Data, Machine Learning, and Artificial Intelligence. Journal of the American College of Radiology, 2018, 15, 497-498.	1.8	40
27	Patients' Use and Evaluation of an Online System to Annotate Radiology Reports with Lay Language Definitions. Academic Radiology, 2017, 24, 1169-1174.	2.5	37
28	Overview of the ImageCLEFmed 2008 Medical Image Retrieval Task. Lecture Notes in Computer Science, 2009, , 512-522.	1.3	36
29	A Bayesian network for diagnosis of primary bone tumors. Journal of Digital Imaging, 2001, 14, 56-57.	2.9	34
30	Analysis of RadLex Coverage and Term Co-occurrence in Radiology Reporting Templates. Journal of Digital Imaging, 2012, 25, 56-62.	2.9	34
31	How users search and what they search for in the medical domain. Information Retrieval, 2016, 19, 189-224.	2.0	34
32	Readability of radiology reports: implications for patient-centered care. Clinical Imaging, 2019, 54, 116-120.	1.5	33
33	Structured entry of radiology reports using World Wide Web technology.. Radiographics, 1996, 16, 683-691.	3.3	30
34	DICOMwebâ„¢: Background and Application of the Web Standard for Medical Imaging. Journal of Digital Imaging, 2018, 31, 321-326.	2.9	29
35	Radiologists' Preferences for Just-in-Time Learning. Journal of Digital Imaging, 2006, 19, 202-206.	2.9	28
36	Content Analysis of Reporting Templates and Free-Text Radiology Reports. Journal of Digital Imaging, 2013, 26, 843-849.	2.9	28

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37	Automated Semantic Indexing of Figure Captions to Improve Radiology Image Retrieval. Journal of the American Medical Informatics Association: JAMIA, 2009, 16, 380-386.	4.4	26
38	A Bayesian network model for radiological diagnosis and procedure selection: Work-up of suspected gallbladder disease. Medical Physics, 1994, 21, 1185-1192.	3.0	25
39	Informatics in Radiology: An Information Model of the DICOM Standard. Radiographics, 2011, 31, 295-304.	3.3	25
40	CHORUS: a computer-based radiology handbook for international collaboration via the World Wide Web.. Radiographics, 1995, 15, 963-970.	3.3	24
41	An Ontology for PACS Integration. Journal of Digital Imaging, 2006, 19, 316-327.	2.9	24
42	Informatics in Radiology: Radiology Gamuts Ontology: Differential Diagnosis for the Semantic Web. Radiographics, 2014, 34, 254-264.	3.3	24
43	Biomedical imaging ontologies: A survey and proposal for future work. Journal of Pathology Informatics, 2015, 6, 37.	1.7	24
44	Bending the Artificial Intelligence Curve for Radiology: Informatics Tools From ACR and RSNA. Journal of the American College of Radiology, 2019, 16, 1464-1470.	1.8	23
45	Case-Based Reasoning and Imaging Procedure Selection. Investigative Radiology, 1994, 29, 643-647.	6.2	22
46	BANTER: a Bayesian network tutoring shell. Artificial Intelligence in Medicine, 1997, 10, 177-200.	6.5	22
47	Building Virtual Communities of Practice. Journal of the American College of Radiology, 2006, 3, 716-720.	1.8	22
48	ACCF/ACR/AHA/ASE/ASNC/HRS/NASCI/RSNA/SAIP/SCAI/SCCT/SCMR 2008 Health Policy Statement on Structured Reporting in Cardiovascular Imaging. Circulation, 2009, 119, 187-200.	1.6	22
49	Code Abdomen: An Assessment Coding Scheme for Abdominal Imaging Findings Possibly Representing Cancer. Journal of the American College of Radiology, 2015, 12, 947-950.	1.8	22
50	Conversion of Radiology Reporting Templates to the MRRT Standard. Journal of Digital Imaging, 2015, 28, 528-536.	2.9	21
51	Promoting the Online Use of Radiology Appropriateness Criteria. Radiographics, 1999, 19, 1673-1681.	3.3	20
52	Applicability of American College of Radiology appropriateness criteria in a general internal medicine clinic.. American Journal of Roentgenology, 1999, 173, 9-11.	2.2	19
53	Ontology-Assisted Analysis of Web Queries to Determine the Knowledge Radiologists Seek. Journal of Digital Imaging, 2011, 24, 160-164.	2.9	19
54	Integration of Imaging Signs into RadLex. Journal of Digital Imaging, 2012, 25, 50-55.	2.9	19

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55	Computer-Aided Detection of Diffuse Liver Disease in Ultrasound Images. Investigative Radiology, 1992, 27, 71-77.	6.2	18
56	Magnetization transfer imaging of the abdomen at 0.1 T: Detection of hepatic neoplasms. Magnetic Resonance Imaging, 1993, 11, 67-71.	1.8	18
57	Coverage and Readability of Information Resources to Help Patients Understand Radiology Reports. Journal of the American College of Radiology, 2018, 15, 1681-1686.	1.8	18
58	Appropriateness of imaging procedure requests: do radiologists agree?. American Journal of Roentgenology, 1997, 169, 11-14.	2.2	16
59	Evidence-Based Radiology: A Primer in Reading Scientific Articles. American Journal of Roentgenology, 2010, 195, W1-W4.	2.2	15
60	Informatics in Radiology: Envisioning the Future of E-Learning in Radiology: An Introduction to SCORM. Radiographics, 2011, 31, 1173-1179.	3.3	15
61	Artificial Intelligence, Real Radiology. Radiology: Artificial Intelligence, 2019, 1, e184001.	5.8	15
62	Technical note: Brachial plexopathy as a complication of intraarterial cisplatin chemotherapy. CardioVascular and Interventional Radiology, 1989, 12, 47-49.	2.0	14
63	Standard Generalized Markup Language for self-defining structured reports. International Journal of Medical Informatics, 1999, 53, 203-211.	3.3	14
64	Integrating an Ontology of Radiology Differential Diagnosis with ICD-10-CM, RadLex, and SNOMED CT. Journal of Digital Imaging, 2019, 32, 206-210.	2.9	13
65	Why Is the Electronic Health Record So Challenging for Research and Clinical Care?. Methods of Information in Medicine, 2021, 60, 032-048.	1.2	13
66	Phoenix. Investigative Radiology, 1987, 22, 978-980.	6.2	12
67	A Presentation System for Just-in-time Learning in Radiology. Journal of Digital Imaging, 2007, 20, 6-16.	2.9	12
68	A New Algorithm for Clustering Lymphocyte Typing Sera. Tissue Antigens, 1980, 15, 447-454.	1.0	12
69	Automated entry of radiology requisition information with artificial-intelligence techniques. American Journal of Roentgenology, 1989, 153, 1085-1088.	2.2	11
70	Magnetization transfer contrast imaging of the human leg at 0.1 T: A preliminary study. Magnetic Resonance Imaging, 1992, 10, 361-364.	1.8	11
71	Decision-theoretic Refinement Planning in Medical Decision Making. Medical Decision Making, 1996, 16, 315-325.	2.4	11
72	Design and implementation of an Internet-based health information resource. Computer Methods and Programs in Biomedicine, 2000, 63, 85-97.	4.7	11

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73	Improving outcomes in radiology. Academic Radiology, 2005, 12, 409-414.	2.5	11
74	Enabling the Next-Generation Radiology Report: Description of Two New System Standards. Radiographics, 2017, 37, 2106-2112.	3.3	11
75	An Open-Standards Grammar for Outline-Style Radiology Report Templates. Journal of Digital Imaging, 2012, 25, 359-364.	2.9	10
76	Annotation of Figures from the Biomedical Imaging Literature. Academic Radiology, 2014, 21, 384-392.	2.5	10
77	Imaging Informatics: 25 Years of Progress. Yearbook of Medical Informatics, 2016, 25, S23-S31.	1.0	10
78	Applications of natural language processing in radiology: A systematic review. International Journal of Medical Informatics, 2022, 163, 104779.	3.3	10
79	A radiology hypertext system for education and clinical decision making. Journal of Digital Imaging, 1991, 4, 207-212.	2.9	9
80	Potential Use of Extensible Markup Language for Radiology Reporting: A Tutorial. Radiographics, 2000, 20, 287-293.	3.3	9
81	Evaluation of Automated Public De-Identification Tools on a Corpus of Radiology Reports. Radiology: Artificial Intelligence, 2020, 2, e190137.	5.8	9
82	An Internet-based ontology editor for medical appropriateness criteria. Computer Methods and Programs in Biomedicine, 1998, 56, 31-36.	4.7	8
83	Integrating ontologies of rare diseases and radiological diagnosis. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1164-1168.	4.4	8
84	Transitive closure of subsumption and causal relations in a large ontology of radiological diagnosis. Journal of Biomedical Informatics, 2016, 61, 27-33.	4.3	8
85	Ensuring Patient Follow-up of Significant Abnormalities Under Pennsylvania Act 112. Journal of the American College of Radiology, 2020, 17, 268-271.	1.8	8
86	Comparing image search behaviour in the ARRS GoldMiner search engine and a clinical PACS/RIS. Journal of Biomedical Informatics, 2015, 56, 57-64.	4.3	7
87	Integrating ontologies of human diseases, phenotypes, and radiological diagnosis. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 149-154.	4.4	7
88	Positive predictive value of clinical suspicion for abdominal aortic aneurysm. Journal of General Internal Medicine, 1996, 11, 756-758.	2.6	6
89	Comparing the quality of accessing medical literature using content-based visual and textual information retrieval. Proceedings of SPIE, 2009, , .	0.8	6
90	Lessons From the Free-Text Epidemic: Opportunities to Optimize Deployment of Imaging Clinical Decision Support. Journal of the American College of Radiology, 2021, 18, 467-474.	1.8	6

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91	Patient Understanding of Abnormal Imaging Findings Under Pennsylvania Act 112: A Call to Revise Mandated Notification Message Language. Journal of the American College of Radiology, 2021, 18, 951-961.	1.8	6
92	A multipurpose model of radiology appropriateness criteria. Academic Radiology, 1998, 5, 188-197.	2.5	5
93	Effective Metadata Discovery for Dynamic Filtering of Queries to a Radiology Image Search Engine. Journal of Digital Imaging, 2008, 21, 269-273.	2.9	5
94	Reviewing Images From Portable Media: An Ongoing Challenge. Journal of the American College of Radiology, 2009, 6, 61-64.	1.8	5
95	Accurate Determination of Imaging Modality using an Ensemble of Text- and Image-Based Classifiers. Journal of Digital Imaging, 2012, 25, 37-42.	2.9	5
96	Biomedical Ontologies to Guide AI Development in Radiology. Journal of Digital Imaging, 2021, 34, 1331-1341.	2.9	5
97	Graphical knowledge presentation in a MUMPS-based decision-support system. Computer Methods and Programs in Biomedicine, 1993, 40, 159-166.	4.7	4
98	Collaborative Filtering to Improve Navigation of Large Radiology Knowledge Resources. Journal of Digital Imaging, 2005, 18, 131-137.	2.9	4
99	Multilingual Retrieval of Radiology Images. Radiographics, 2009, 29, 23-29.	3.3	4
100	Incorporating intelligence into structured radiology reports. , 2014, , .		4
101	Sensor, Signal, and Imaging Informatics in 2017. Yearbook of Medical Informatics, 2018, 27, 110-113.	1.0	4
102	Management of Suspected Lower-Extremity Deep Venous Thrombosis. Archives of Internal Medicine, 1995, 155, 426.	3.8	3
103	Dynamic â€œInlineâ€•Images: Context-Sensitive Retrieval and Integration of Images into Web Documents. Journal of Digital Imaging, 2008, 21, 274-279.	2.9	3
104	Application of standardized biomedical terminologies in radiology reporting templates. Information Services and Use, 2013, 33, 309-323.	0.2	3
105	We All Need a Little Magic. Radiology: Artificial Intelligence, 2019, 1, e194002.	5.8	3
106	Integrating Wikipedia Articles and Images into an Information Resource for Radiology Patients. Journal of Digital Imaging, 2019, 32, 349-353.	2.9	3
107	Log analysis to understand medical professionals' image searching behaviour. Studies in Health Technology and Informatics, 2012, 180, 1020-4.	0.3	3
108	Ontology-based diagnostic decision support in radiology. Studies in Health Technology and Informatics, 2014, 205, 78-82.	0.3	3

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109	An Ontology-Based Approach to Estimate the Frequency of Rare Diseases in Narrative-Text Radiology Reports. Studies in Health Technology and Informatics, 2017, 245, 896-900.	0.3	3
110	The Radiology: Artificial Intelligence Trainee Editorial Board: Initial Experience and Future Directions. Academic Radiology, 2022, 29, 1899-1902.	2.5	3
111	<title>Visualization of liver in 3-D</title>. Proceedings of SPIE, 1991, 1444, 75.	0.8	2
112	Building a corpus and developing a question classifier to support messaging-based question answering. , 2010, , .		2
113	Analyzing Medical Image Search Behavior: Semantics and Prediction of Query Results. Journal of Digital Imaging, 2015, 28, 537-546.	2.9	2
114	Automating Import and Reconciliation of Outside Examinations Submitted to an Academic Radiology Department. Journal of Digital Imaging, 2020, 33, 355-360.	2.9	2
115	Improving Triage of After-Hours Radiology Examinations Through Worklist Unification. Journal of the American College of Radiology, 2020, 17, 970-975.	1.8	2
116	Family structure: a general program for displaying complex pedigree data. Computer Methods and Programs in Biomedicine, 1990, 33, 9-11.	4.7	1
117	P2F-9 A Novel Model for Contrast Enhanced Ultrasound Video and Its Applications. , 2006, , .		1
118	The Editorship of the AJR. American Journal of Roentgenology, 2007, 189, 266-266.	2.2	1
119	Authorsâ€™ Reply. Journal of the American College of Radiology, 2014, 11, 925-926.	1.8	1
120	Evaluating Completeness of a Radiology Glossary Using Iterative Refinement. Journal of Digital Imaging, 2019, 32, 417-419.	2.9	1
121	RSNA-MICCAI Panel Discussion: 2. Leveraging the Full Potential of Alâ€"Radiologists and Data Scientists Working Together. Radiology: Artificial Intelligence, 2021, 3, e210248.	5.8	1
122	Editorâ€™s Recognition Awards. Radiology: Artificial Intelligence, 2022, 4, .	5.8	1
123	Efficient storage and analysis of immunogenetic phenotypes: the phenotype-element technique. Computer Methods and Programs in Biomedicine, 1988, 27, 199-203.	4.7	0
124	Architecture for integration of probabilistic knowledge with digital image libraries. International Congress Series, 2001, 1230, 379-383.	0.2	0
125	Sensor, Signal, and Imaging Informatics. Yearbook of Medical Informatics, 2017, 26, 120-124.	1.0	0
126	2020 Manuscript Reviewers: A Note of Thanks. Radiology: Artificial Intelligence, 2021, 3, e210017.	5.8	0

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127	Editorâ€™s Recognition Awards. Radiology: Artificial Intelligence, 2021, 3, e210019.	5.8	0
128	Abstract 3575: Frequency of imaging findings suspicious for and suggestive of cancer between three different hospitals within a single health system. , 2017, , .		0
129	Design and implementation of outpatient-based rapid MRI protocols to rule out metastatic spinal cord compression and brain metastases.. Journal of Clinical Oncology, 2019, 37, e18307-e18307.	1.6	0
130	2018â€“2019 Manuscript Reviewers: A Note of Thanks. Radiology: Artificial Intelligence, 2020, 2, e204001.	5.8	0
131	A digital library of radiology images. AMIA ... Annual Symposium proceedings, 2006, , 972.	0.2	0
132	A multilingual image search engine. AMIA ... Annual Symposium proceedings, 2008, , 995.	0.2	0
133	2021 Manuscript Reviewers: A Note of Thanks. Radiology: Artificial Intelligence, 2022, 4, .	5.8	0
134	Ensemble Approaches to Recognize Protected Health Information in Radiology Reports. Journal of Digital Imaging, 0, , .	2.9	0