

1. Search process record

Database	Number of searches	Number of repetitions in each database	Number of repetitions in all databases	Total number(after deleting repetitions)
ACM	81	1	2044	80
IEEE	92	3		89
Engineering Village	551	237		314
Google Scholar	1630	783		847
Science Direct	1200	562		638
Springer	770	458		312
Total	4324	2044		2280

Excute inclusion/exclusion criteria

Database	Apply criteria (I1-I2,E3)	Apply criteria in (I3,E1-E2, E4-E5) title,abstract	Apply criteria in (I3,E1-E2, E4-E5)in full article	Apply criteria in (I4)in full article	Snowballing	Final
ACM	656	185	170	47	1	48
IEEE						
Engineering Village						
Google Scholar						
Science Direct						
Springer						
Total						

2. Search records:

Digital Libraries:

Database	
ACM	https://www.acm.org/publications/digital-library
IEEE	ieees://ieeexplore.ieee.org/Xplore/home.jsp
Engineering Village	https://www.engineeringvillage.com/home.url
Google Scholar	https://scholar.google.com
Science Direct	scien://www.sciencedirect.com
Springer	https://link.springer.com/

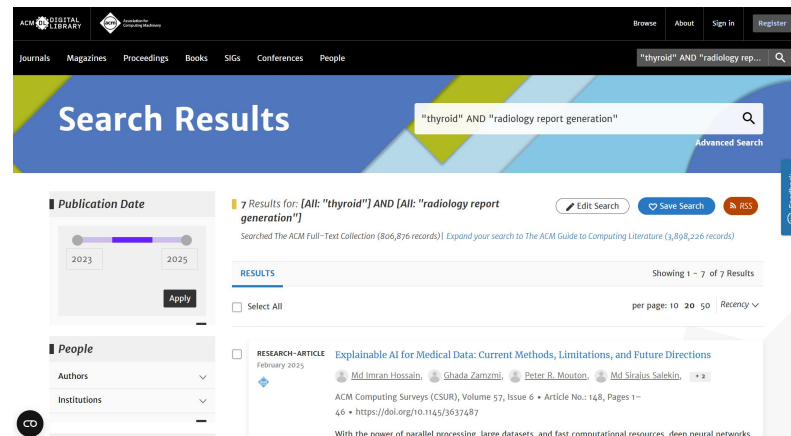
Search terms:

("thyroid" AND "radiology report generation") OR ("thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound") OR ("TI-RADS" AND ("natural language processing" OR "report")) OR ("multimodal AI" AND "thyroid" AND ("ultrasound" OR

"pathology")) OR ("radiology report generation" AND "deep learning")

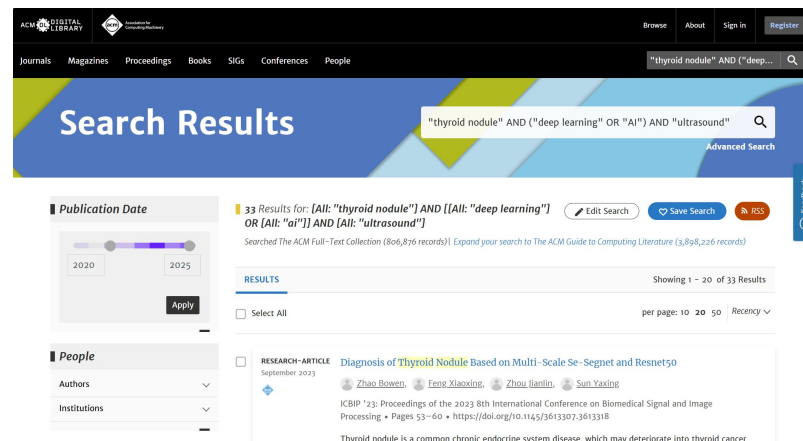
1) ACM

("thyroid" AND "radiology report generation")



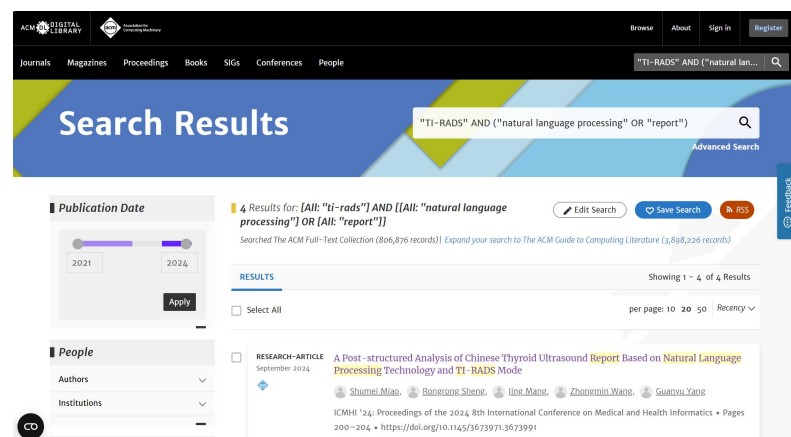
ACM Digital Library search results for the query "thyroid" AND "radiology report generation". The interface shows 7 results. The first result is a research article titled "Explainable AI for Medical Data: Current Methods, Limitations, and Future Directions" by Md Imran Hossain, Ghada Zamzami, Peter B. Mouton, and Md Sirajus Salekin, published in February 2025. The article is from ACM Computing Surveys (CSUR), Volume 57, Issue 6, Article No.: 148, Pages 1-46. The abstract mentions the power of parallel processing, large datasets, and fast computational resources, deep neural networks.

("thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound")



ACM Digital Library search results for the query "thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound". The interface shows 33 results. The first result is a research article titled "Diagnosis of Thyroid Nodule Based on Multi-Scale Se-Net and ResNet50" by Zhao Bowen, Feng Xiaoxing, Zhou Lianlin, and Sun Yaxing, published in September 2023. The article is from ICBI '23: Proceedings of the 2023 8th International Conference on Biomedical Signal and Image Processing, Pages 53-60. The abstract states that thyroid nodule is a common chronic endocrine system disease, which may deteriorate into thyroid cancer.

("TI-RADS" AND ("natural language processing" OR "report"))



ACM Digital Library search results for the query "TI-RADS" AND ("natural language processing" OR "report"). The interface shows 4 results. The first result is a research article titled "A Post-structured Analysis of Chinese Thyroid Ultrasound Report Based on Natural Language Processing Technology and TI-RADS Mode" by Shumei Miao, Bonome Shene, Jiao Mans, Zhongmin Wang, and Guorou Yang, published in September 2024. The article is from ICMIH '24: Proceedings of the 2024 8th International Conference on Medical and Health Informatics, Pages 200-204. The abstract mentions the use of natural language processing technology and TI-RADS mode for analyzing Chinese thyroid ultrasound reports.

("multimodal AI" AND "thyroid" AND ("ultrasound" OR "pathology"))

The screenshot shows the ACM Digital Library search results page. The search query is "multimodal AI" AND "thyroid" AND ("ultrasound" OR "pathology"). The results show 6 items. The first result is a proceeding from November 2024, titled "CSCW Companion '24: Companion Publication of the 2024 Conference on Computer-Supported Cooperative Work and Social Computing". The authors listed are Rosta Farzan, Claudia López, and Daniel Cardoso Uch. The page also features filters for Publication Date (2023 to 2025) and People (Authors, Institutions).

("radiology report generation" AND "deep learning")

The screenshot shows the ACM Digital Library search results page. The search query is "radiology report generation" AND "deep learning". The results show 31 items. The first result is a research article titled "Diversity-Augmented Diffusion Network With LLM Assistance For Radiology Report Generation" by Jieting Long, Zhivuan Li, Jiaman Fan, Zhuonan Liang, and Ao Ma. The article is from May 2025 and is an open access piece. The page also features filters for Publication Date (2021 to 2025) and People (Authors, Institutions).

2) IEEE

("thyroid" AND "radiology report generation")

The screenshot shows the IEEE Xplore search results page. The search query is "thyroid" AND "radiology report generation". The results show no results found. The page also features a search bar and a "No results found" message.

We were unable to find results for "thyroid" AND "radiology report generation". Please try your search again using the following suggestions:

- Use fewer keywords
- Use * to represent zero or more alphanumeric characters (e.g., *invert** matches "invert" and "inverter")
- Use Advanced Search
- Refer to our Search Tips

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("thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound")

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Showing 1-25 of 73 results for "thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound" ×
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☐ **Via Multi-attention Guided UNet for Thyroid Nodule Segmentation of Ultrasound Images**

Xupeng Wang; Zhuo Xiang; Xiaoyu Tian; Cheng Zhao; Chuan-Ming Liu; Tianfu Wang; Chong-Ke Zhao; BaiYing Lei

2024 46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)

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how

("TI-RADS" AND ("natural language processing" OR "report"))

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Showing 1-2 of 2 results for "TI-RADS" AND ("natural language processing" OR "report") ×
☐ Conferences (2)

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☐ **An Ensemble Deep Learning Architecture for Multilabel Classification on TI-RADS**

Xueli Duan; Shaobo Duan; Pei Jiang; Runzhi Li; Ye Zhang; Jingzhe Ma; Hongling Zhao; Honghua Dai

2020 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)

Year: 2020 | Conference Paper | Publisher: IEEE

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All Results

("multimodal AI" AND "thyroid" AND ("ultrasound" OR "pathology"))

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ADVANCED SEARCH

No results found for "multimodal AI" AND "thyroid" AND ("ultrasound" OR "pathology") ×

We were unable to find results for "multimodal AI" AND "thyroid" AND ("ultrasound" OR "pathology") ×

Please try your search again using the following suggestions:

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☐ Conferences (12)

☐ Journals (5)

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Automatic Radiology Report Generation: A Comprehensive Review and Innovative Framework

Moustapha Boubacar Hamma; Zakariae Alami Merrouni; Bouchra Frikh; Brahim Ouhbi

2024 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)


Year: 2024 | Conference Paper | Publisher: IEEE

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3) Engineering Village

("thyroid" AND "radiology report generation")

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
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
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("thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound")

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S, S.V. (Riems-Murp-Klinikum, Department of ECE, Germany); Sarkar, S.; B, R, R.; R, S.; P, S, P.K.; S, S.

Database: Inspec

Document type: Conference article (CA)

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Cited by in Scopus (1)

Full text

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2. Advance of Thyroid Nodule Ultrasound Diagnosis Based on Deep Learning

Wan, Huijing (School of Physics and Information Engineering, Jiangsu Second Normal University, Nanjing; 211200, China); Chen, Shuwen; Ni, Yiyang; Qi, Shaojia; Qu, Hui

Database: Compendex

Document type: Conference article (CA)

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("TI-RADS" AND ("natural language processing" OR "report"))

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- ☐ A Post-structured Analysis of Chinese Thyroid Ultrasound Report Based on Natural Language Processing Technology and TI-RADS Model
Miao, Shumei (School of Computer Science and Engineering, Southeast University, Jiangsu, Nanjing, China); Sheng, Rongrong; Jing, Mang; Wang, Zhongmin; Yang, Guanyu
Database: Compendex
Document type: Conference article (CA)
Show preview Full text Find at Imperial
- ☐ A post-structured analysis of chinese thyroid ultrasound report based on natural language processing technology and TI-RADS mode

Feedback

("multimodal AI" AND "thyroid" AND ("ultrasound" OR "pathology"))

Quick search All fields for "multimodal AI" AND "thyroid" AND ("ultrasound" OR "p")

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Databases Date Language Document type Sort by Browse indexes Autostemming Discipline Treatment

No results were found in Compendex, Inspec & Knovel for 2020-2025: ("multimodal AI" AND "thyroid" AND ("ultrasound" OR "pathology")) WN ALL

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("radiology report generation" AND "deep learning")

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- ☐ Medical radiology report generation: A systematic review of current deep learning methods, trends, and future directions
Izhar, A. (University of Malaya, Faculty of Computer Science and Information Technology, Malaysia); Idris, N.; Japar, N.
Database: Inspec
Document type: Journal article (JA)
Show preview Cited by in Scopus Full text Find at Imperial
- ☐ Medical radiology report generation: A systematic review of current deep learning methods, trends, and future directions
Arif, A. (Faculty of Computer Science and Information Technology, Universiti Malaya, Kuala Lumpur; 50603, A. Arif, a.arif@um.edu.my)

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4) Google Scholar

("thyroid" AND "radiology report generation") OR ("thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound") OR ("TI-RADS" AND ("natural language processing" OR "report")) OR ("multimodal AI" AND "thyroid" AND ("ultrasound" OR "pathology")) OR ("radiology report generation" AND "deep learning")

Google Scholar search results for the query: ("thyroid" AND "radiology report generation") OR ("thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound") OR ("TI-RADS" AND ("natural language processing" OR "report")) OR ("multimodal AI" AND "thyroid" AND ("ultrasound" OR "pathology")) OR ("radiology report generation" AND "deep learning")

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A fusion NLP model for the inference of standardized **thyroid nodule** malignancy scores from radiology **report text** [PDF] nih.gov
I Santos, ON Kallias, J Newsome... - AMIA Annual ..., 2022 - pmc.ncbi.nlm.nih.gov
... (AI) system can be developed to automate the assessment of **thyroid nodule** malignancy risk from **thyroid ultrasound** ... using the standardized terminology of **TI-RADS** reporting system. ...
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Transformer and Generative **Deep Learning** for **Thyroid Cancer** Detection [PDF] researchgate.net
P Shukla - researchgate.net
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Enhancing Diagnostic Precision in **Thyroid Nodule** Classification: A **Deep Learning** Approach to Automated **Ultrasound** Image Analysis [PDF] medrxiv.org
LJ de Oliveira Andrade, GC Matos de Oliveira... - medRxiv, 2025 - medrxiv.org
... , **AI** models can integrate multiparametric **ultrasound** data, ... evaluation of **thyroid pathology**. These capabilities position ... of **AI** in bolstering the precision of **thyroid ultrasound** diagnostics. ...
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Extracting **thyroid** nodules characteristics from **ultrasound** reports using transformer-based **natural language processing** methods [PDF] nih.gov
A Pathak, Z Yu, D Paredes, EP Monsour... - AMIA Annual ..., 2024 - pmc.ncbi.nlm.nih.gov
... NLP experts and **thyroid** specialists, identified **thyroid nodule** ... NLP is a branch of artificial intelligence (AI) with the potential ... extract tumor information from **pathology** reports for different ...
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A narrative review on innovations of **thyroid nodule ultrasound** diagnosis: applications of robot and artificial intelligence technology [HTML] nih.gov
Y Li, J Ma, T Zhou, Z Sun, L Wang, X Yu, Z Xu... - Gland ..., 2025 - pmc.ncbi.nlm.nih.gov
... **thyroid** nodules using **deep learning** algorithms have made **AI** outstanding in the **ultrasound**

5) Science Direct

("thyroid" AND "radiology report generation")

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Advanced search

8 results sorted by relevance | date

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☐ 2024 (1)
☐ 2023 (2)
☐ 2022 (1)
☐ 2020 (3)
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Article type ⓘ
☐ Review articles (2)
☐ Research articles (3)
☐ Mini reviews (1)
Publication title

Research article
Ultrasound report generation with fuzzy knowledge and multi-modal large language model
Expert Systems with Applications, 1 November 2025
Ziming Li, Mingde Li, ... Qinghua Huang

Research article
Work like a doctor: Unifying scan localizer and dynamic generator for automated computed tomography report generation
Expert Systems with Applications, 1 March 2024
Yuhao Tang, Holchen Yang, ... Ye Yuan

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Research article
A review of medical text analysis: Theory and practice
Information Fusion, July 2022
Yanli Chen, Chunwei Zhang, ... Ruli Wang

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☒ 2025 (19)
☐ 2024 (22)
☐ 2023 (95)
☐ 2022 (84)
☐ 2021 (20)
☐ 2020 (35)
☐ 2019 (14)
☐ 2018 (9)
☐ 2017 (0)
☐ 2016 (13)
☐ 2015 (9)
☐ 2014 (46)
☐ 2013 (2)
☐ 2012 (8)
☐ 2011 (13)
☐ 2010 (3)

Research article
Deep learning model for malignancy prediction of TI-RADS 4 thyroid nodules with high-risk characteristics using multimodal ultrasound: A multicentre study
Computerized Medical Imaging and Graphics, September 2025
Xuan Chu, Tengfei Wang, ... Hui Li

Research article Open access
Using deep learning for thyroid nodule risk stratification from ultrasound images
WFLMIS **Ultrasound** Open, June 2025
Yasaman Shariif, Marissa Dorsey Ashgriff, ... Saidi Ezzami
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Research article Open access
Enhancing thyroid nodule assessment with deep learning and ultrasound imaging
ePrime - Advances in Electrical Engineering, Electronics and Energy, March 2025

FEEDBACK

("TI-RADS" AND ("natural language processing" OR "report"))

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"TI-RADS" AND ("natural language processing" OR "report")

Advanced search

492 results sorted by relevance | date

Refine by:

Years

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☒ 2025 (111)
☒ 2024 (101)
☒ 2023 (77)
☒ 2022 (73)
☒ 2021 (67)
☒ 2020 (63)
☐ 2019 (61)
☐ 2018 (28)
☐ 2017 (23)
☐ 2016 (13)
☐ 2015 (3)
☐ 2014 (2)
☐ 2013 (4)
☐ 2011 (2)
☐ 2008 (1)
☐ 1999 (1)

Research article

Thyroid Ultrasound Reports: Will the Thyroid Imaging, Reporting, and Data System Improve Natural Language Processing Capture of Critical Thyroid Nodule Features?

Journal of Surgical Research, December 2020
Kallie J. Chen, Priya H. Dedhia, ... David F. Schneider

Review article • Open access

A Systematic Review of Natural Language Processing Methods and Applications in Thyroidology

Mayo Clinic Proceedings: Digital Health, June 2024
Ricardo Loos-Torres, Mayra Duran, ... Juan P. Brito

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Research article • Open access

Enhancing Thyroid Nodule Characterization: Integrating TI-RADS With Ultrasound Viscosity Imaging for Improved Diagnostic Accuracy

Ultrasound in Medicine & Biology, November 2025

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Advanced search

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☒ 2023 (2)
☒ 2022 (2)

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Article type

☐ Review articles (16)
☐ Research articles (3)
☐ Book chapters (1)
☐ Conference abstracts (1)

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Publication title

Review article • Open access

Navigating the landscape of multimodal AI in medicine: A scoping review on technical challenges and clinical applications

Medical Image Analysis, October 2025
Daan Schouten, Giulia Nicoletti, ... Nadieh Khalil

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Conference abstract

An Artificial Intelligence Ultrasound Platform for Screening and Staging of Thyroid Cancer

International Journal of Radiation Oncology*Biophysics, 1 April 2022
R. Paul, A. Juliano, ... A. W. Chan

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Review article • Open archive

Revolutionizing Digital Pathology With the Power of Generative Artificial Intelligence and Foundation Models

Laboratory Investigation, November 2023
Asim Waqas, Marilyn M. Bul, ... Ghulam Rasool

FEEDBACK

("radiology report generation" AND "deep learning")

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"radiology report generation" AND "deep learning"

Advanced search

120 results sorted by relevance | date

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☒ 2025 (59)
☒ 2024 (29)
☒ 2023 (16)
☒ 2022 (8)
☒ 2021 (5)
☒ 2020 (3)
☐ 2018 (1)

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Article type

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☐ Research articles (71)
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☐ Book chapters (2)

Review article

Medical radiology report generation: A systematic review of current deep learning methods, trends, and future directions

Artificial Intelligence in Medicine, October 2025
Amaan Izhar, Norisma Idris, Nurul Japar

Review article • Open access

A survey of deep-learning-based radiology report generation using multimodal inputs

Medical Image Analysis, July 2025
Xinyi Wang, Graziela Figueredo, ... Xin Chen

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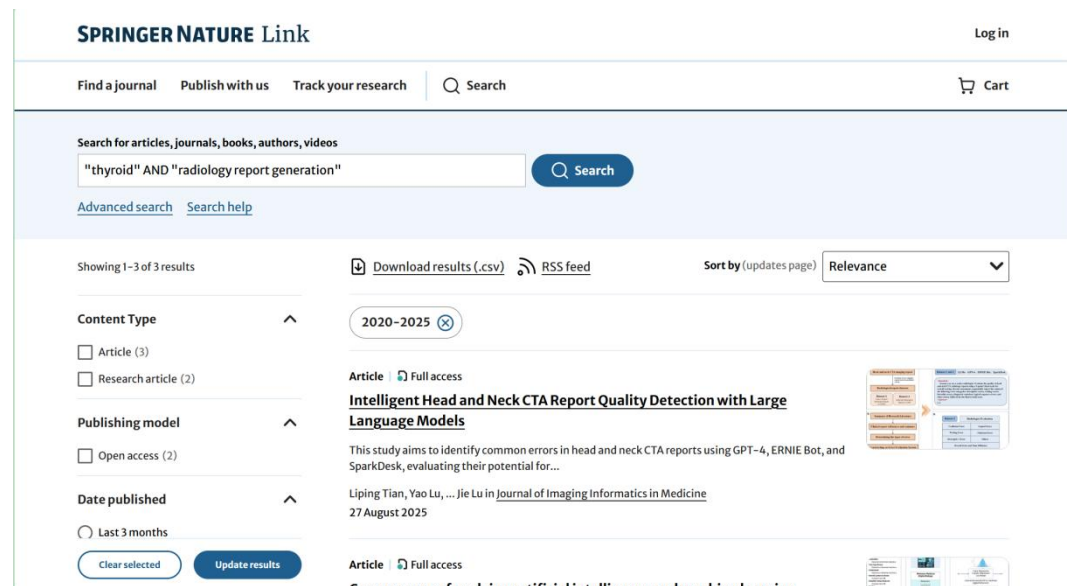
Deep learning approaches to automatic radiology report generation: A systematic review

Informatics in Medicine Unlocked, 2023
Yuxiang Liao, Hantao Liu, Irena Spasic

FEEDBACK

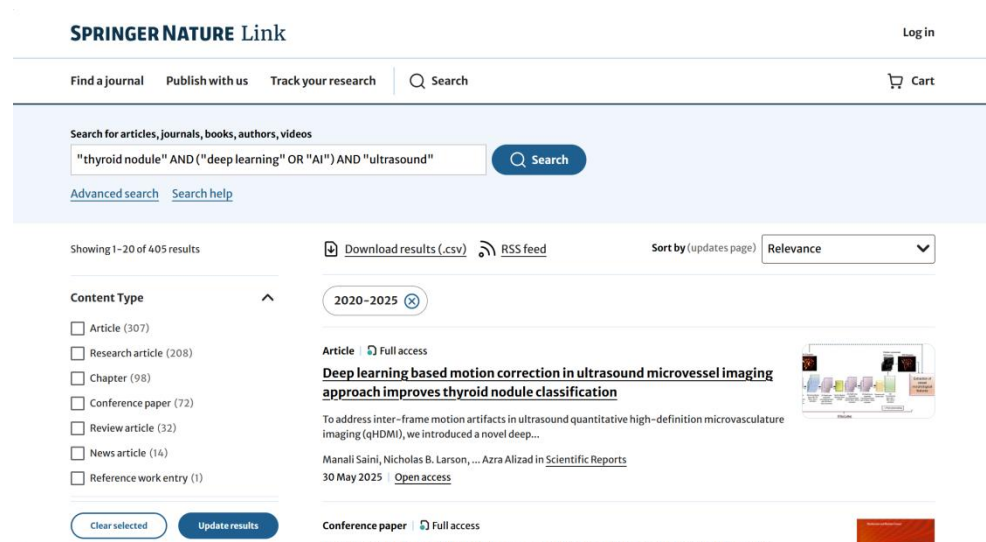
6) Springer

("thyroid" AND "radiology report generation")



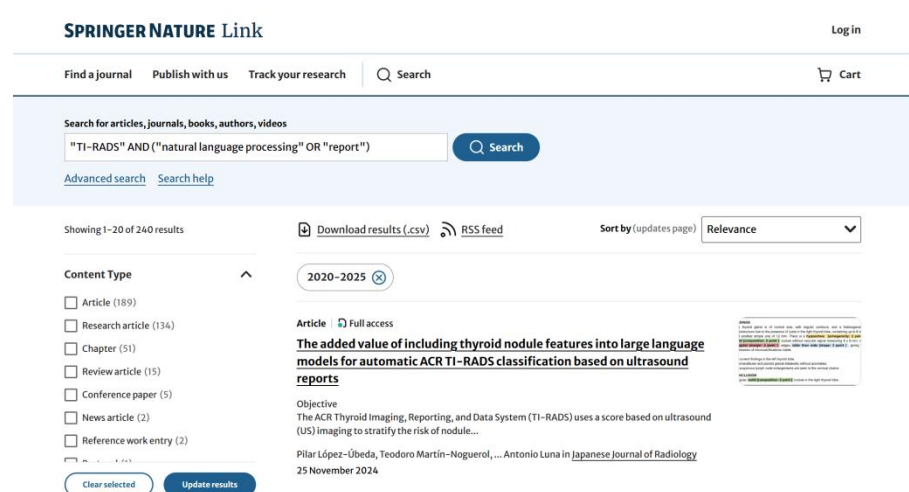
The screenshot shows the Springer Nature search interface. The search bar contains the query "thyroid" AND "radiology report generation". The results are sorted by Relevance. The first result is an article titled "Intelligent Head and Neck CTA Report Quality Detection with Large Language Models" by Liping Tian, Yao Lu, and Jie Lu, published in the Journal of Imaging Informatics in Medicine on 27 August 2025. The article is available in full access. The second result is a conference paper titled "Advances of Embedding Artificial Intelligence and Machine Learning" by Manali Saini, Nicholas B. Larson, and Azra Alizad, published in Scientific Reports on 30 May 2025. The article is also available in full access.

("thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound")



The screenshot shows the Springer Nature search interface. The search bar contains the query "thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound". The results are sorted by Relevance. The first result is an article titled "Deep learning based motion correction in ultrasound microvessel imaging approach improves thyroid nodule classification" by Manali Saini, Nicholas B. Larson, and Azra Alizad, published in Scientific Reports on 30 May 2025. The article is available in full access. The second result is a conference paper titled "Advance of Thyroid Nodule Ultrasound Diagnostic Based on Deep Learning" by Manali Saini, Nicholas B. Larson, and Azra Alizad, published in Scientific Reports on 30 May 2025. The article is also available in full access.

("TI-RADS" AND ("natural language processing" OR "report"))



The screenshot shows the Springer Nature search interface. The search bar contains the query "TI-RADS" AND ("natural language processing" OR "report"). The results are sorted by Relevance. The first result is an article titled "The added value of including thyroid nodule features into large language models for automatic ACR TI-RADS classification based on ultrasound reports" by Pilar López-Úbeda, Teodoro Martín-Noguerol, and Antonio Luna, published in the Japanese Journal of Radiology on 25 November 2024. The article is available in full access. The second result is a conference paper titled "Advances of Embedding Artificial Intelligence and Machine Learning" by Manali Saini, Nicholas B. Larson, and Azra Alizad, published in Scientific Reports on 30 May 2025. The article is also available in full access.

("multimodal AI" AND "thyroid" AND ("ultrasound" OR "pathology"))

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