

Technical Report: Deep Learning Methods for Thyroid Imaging Segmentation: A Systematic Review

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) title,abstract	Apply criteria in (I3,E1-E2)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:

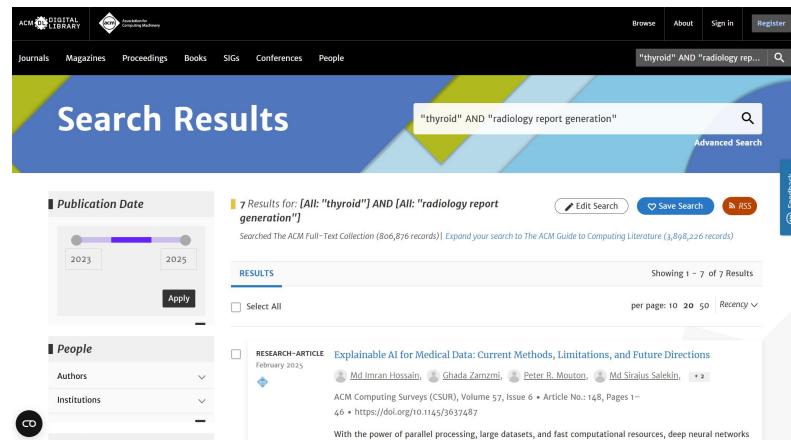
Database	
ACM	https://www.acm.org/publications/digital-library
IEEE	ieees://ieeexplore.ieee.org/Xplore/home.jsp
Engineering Village	https://www.engineeringvillage.com/home.url
Google Scholar	https://scholar.google.com
Science Direct	scien://www.sciencedirect.com
Springer	https://link.springer.com/

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")

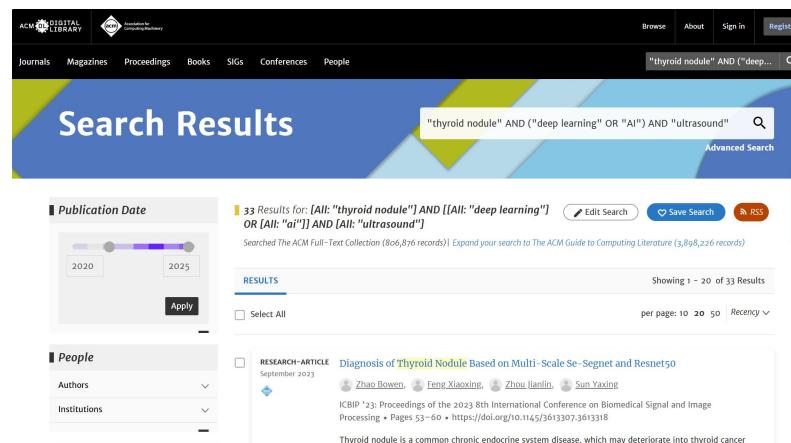
1) ACM

("thyroid" AND "radiology report generation")



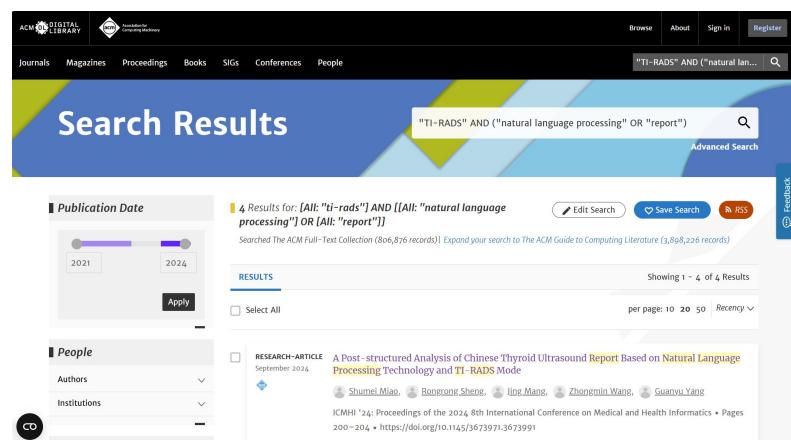
The screenshot shows the ACM Digital Library search results for the query "thyroid" AND "radiology report generation". The search bar at the top contains the query. The results page displays 7 results, with the first one being a research article titled "Explainable AI for Medical Data: Current Methods, Limitations, and Future Directions" from February 2023. The article is published in ACM Computing Surveys (CSUR), Volume 57, Issue 6, Article No. 148, Pages 1–46. The abstract discusses the use of parallel processing, large datasets, and fast computational resources for deep neural networks.

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



The screenshot shows the ACM Digital Library search results for the query "thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound". The search bar at the top contains the query. The results page displays 33 results, with the first one being a research article titled "Diagnosis of Thyroid Nodule Based on Multi-Scale Se- Segnet and Resnet50" from September 2023. The article is published in ICBIP '23: Proceedings of the 2023 8th International Conference on Biomedical Signal and Image Processing. The abstract discusses the use of multi-scale segmentation and residual blocks for thyroid nodule diagnosis.

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



The screenshot shows the ACM Digital Library search results for the query "TI-RADS" AND ("natural language processing" OR "report"). The search bar at the top contains the query. The results page displays 4 results, with the first one being a research article titled "A Post-structured Analysis of Chinese Thyroid Ultrasound Report Based on Natural Language Processing Technology and TI-RADS Model" from September 2024. The article is published in ICMHI '24: Proceedings of the 2024 8th International Conference on Medical and Health Informatics. The abstract discusses the use of natural language processing to analyze 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 page displays a search interface with filters for Publication Date (2023-2025), People (Authors, Institutions), and a CO button. The results list shows a single item: "CSCW Companion '24: Companion Publication of the 2024 Conference on Computer-Supported Cooperative Work and Social Computing" by Rosta Farzan, Claudia López, Daniel Cardoso Lach, et al. The page also includes a sidebar for "Publication Date" and "People".

("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 page displays a search interface with filters for Publication Date (2021-2025), People (Authors, Institutions), and a CO button. The results list shows a single item: "Diversity-Augmented Diffusion Network With LLM Assistance For Radiology Report Generation" by Jieting Long, Zhiyuan Li, Jianan Fan, Zhenuan Liang, Ao Ma, et al. The page also includes a sidebar for "Publication Date" and "People".

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 page displays a search interface with filters for All, My Settings, Help, and Institutional Sign In. The results list shows a message: "No results found for "thyroid" AND "radiology report generation"". The page also includes a sidebar for "All" and "ADVANCED SEARCH".

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

The advertisement is for an IEEE eLearning Course titled "Practical Applications of Virtual and Augmented Reality in Business and Society". It includes a "LEARN MORE" button and the IEEE logo.

The image shows the IEEE logo and a "Publish Open" button.

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

Scheduled Maintenance: On Tuesday, 23 September, IEEE Xplore will undergo scheduled maintenance from 1:00-5:00 PM ET (1800-2200 UTC). During this time, there may be intermittent impact on performance. We apologize for any inconvenience. X

IEEE.org | IEEE Xplore | IEEE SA | IEEE Spectrum | More Sites Subscribe | Donate | Cart | Create Account | Personal Sign In

IEEE Xplore® Browse ▾ My Settings ▾ Help ▾ Institutional Sign In

IEEE

All SEARCH

ADVANCED SEARCH

Search within results Items Per Page ▾ Export Set Search Alerts Search History

Showing 1-25 of 73 results for "thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound" X

Filters Applied: 2020 - 2025 X

Conferences (49) Journals (21) Books (2) Early Access Articles (1)

Select All on Page Sort By Relevance ▾

Via Multi-attention Guided UNet for Thyroid Nodule Segmentation of Ultrasound Images LOCKED
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)



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

Scheduled Maintenance: On Tuesday, 23 September, IEEE Xplore will undergo scheduled maintenance from 1:00-5:00 PM ET (1800-2200 UTC). During this time, there may be intermittent impact on performance. We apologize for any inconvenience. X

IEEE.org | IEEE Xplore | IEEE SA | IEEE Spectrum | More Sites Subscribe | Donate | Cart | Create Account | Personal Sign In

IEEE Xplore® Browse ▾ My Settings ▾ Help ▾ Institutional Sign In

IEEE

All SEARCH

ADVANCED SEARCH

Search within results Items Per Page ▾ Export Set Search Alerts Search History

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

Conferences (2)

Select All on Page Sort By Relevance ▾

An Ensemble Deep Learning Architecture for Multilabel Classification on TI-RADS LOCKED
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
Cited by: Papers (4)



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

Scheduled Maintenance: On Tuesday, 23 September, IEEE Xplore will undergo scheduled maintenance from 1:00-5:00 PM ET (1800-2200 UTC). During this time, there may be intermittent impact on performance. We apologize for any inconvenience. X

IEEE.org | IEEE Xplore | IEEE SA | IEEE Spectrum | More Sites Subscribe | Donate | Cart | Create Account | Personal Sign In

IEEE Xplore® Browse ▾ My Settings ▾ Help ▾ Institutional Sign In

IEEE

All SEARCH

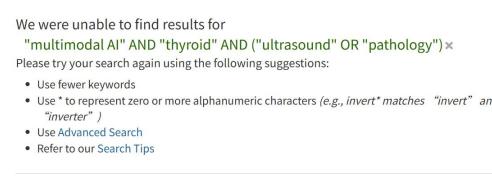
ADVANCED SEARCH

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

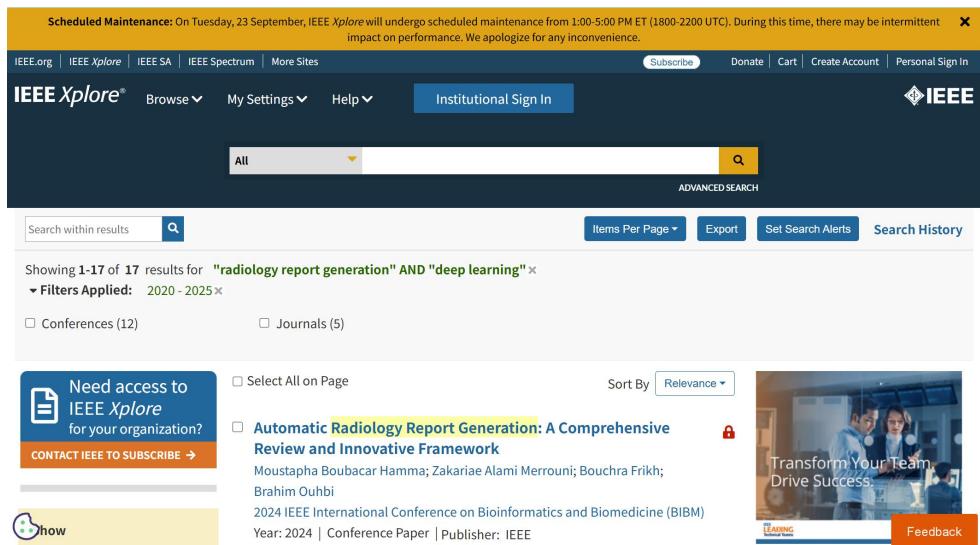
We were unable to find results for "multimodal AI" AND "thyroid" AND ("ultrasound" OR "pathology") X

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



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



Scheduled Maintenance: On Tuesday, 23 September, IEEE Xplore will undergo scheduled maintenance from 1:00-5:00 PM ET (1800-2200 UTC). During this time, there may be intermittent impact on performance. We apologize for any inconvenience. X

IEEE.org | IEEE Xplore | IEEE SA | IEEE Spectrum | More Sites | [Subscribe](#) | [Donate](#) | [Cart](#) | [Create Account](#) | [Personal Sign In](#)

IEEE Xplore® [Browse](#) [My Settings](#) [Help](#) [Institutional Sign In](#) IEEE

Search within results Search [ADVANCED SEARCH](#)

Showing 1-17 of 17 results for **"radiology report generation" AND "deep learning"** X

Filters Applied: 2020 - 2025 X

Conferences (12) Journals (5)

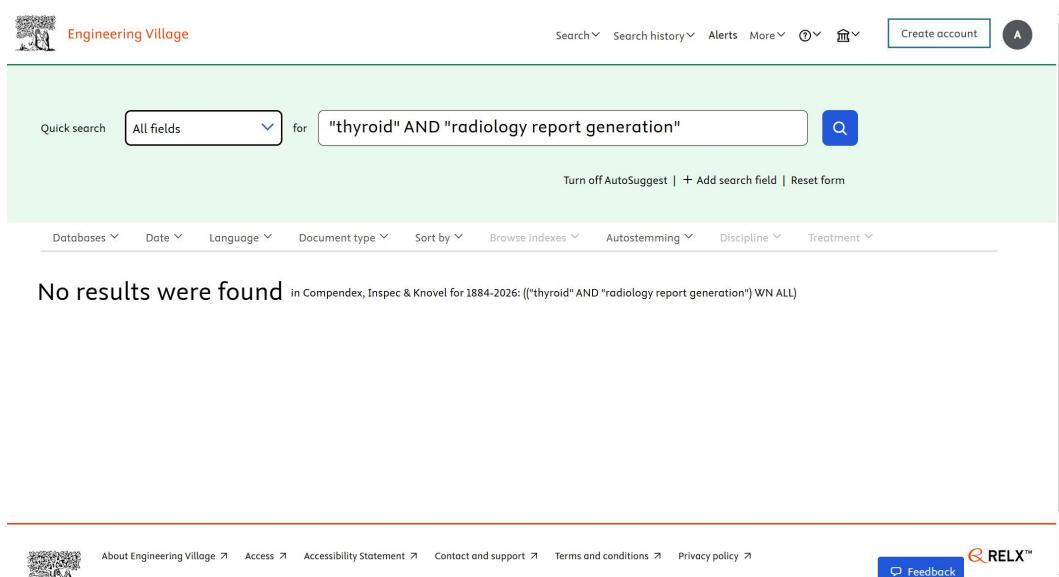
Select All on Page Sort By: Relevance

Automatic Radiology Report Generation: A Comprehensive Review and Innovative Framework A
Moustapha Boubacar Hamma; Zakaria Alami Merrouni; Bouchra Frikh; Brahim Ouhbi
2024 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)
Year: 2024 | Conference Paper | Publisher: IEEE

 Feedback

3) Engineering Village

("thyroid" AND "radiology report generation")



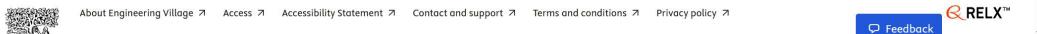
Engineering Village Create account

Search Search history Alerts More Turn off AutoSuggest + Add search field Reset form

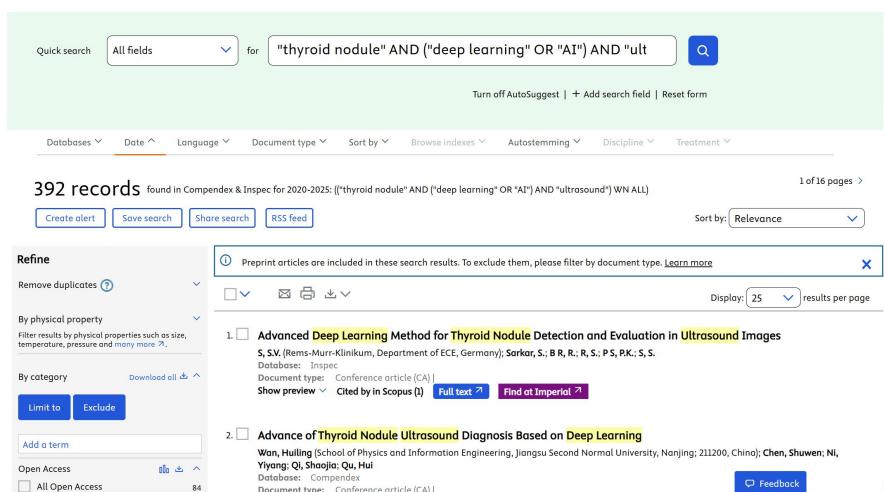
Quick search for Search

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

No results were found in Compendex, Inspec & Knovel for 1884-2026: ("thyroid" AND "radiology report generation") WN ALL)

 RELX™

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



392 records found in Compendex & Inspec for 2020-2025: ("thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound") WN ALL)

[Create alert](#) [Save search](#) [Share search](#) [RSS feed](#) Sort by: Relevance

Refine Print articles are included in these search results. To exclude them, please filter by document type. [Learn more](#)

Remove duplicates Download all

By physical property Filter results by physical properties such as size, temperature, pressure and more [Read more](#)

By category Download all

Limit to Exclude

Add a term

Open Access All Open Access

Display 25 results per page

1. Advanced Deep Learning Method for Thyroid Nodule Detection and Evaluation in Ultrasound Images
S.S. Rents-Marr-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)
Show preview Cited by in Scopus (1) Full text (3) Find at Imperial

2. Advance of Thyroid Nodule Ultrasound Diagnosis Based on Deep Learning
Wan, Hailing (School of Physics and Information Engineering, Jiangxi Second Normal University, Nanchang; 211200, China); Chen, Shuwen; Ni, Yiyang; Qi, Shaoqiang; Qu, Hui
Database: Compendex
Document type: Conference article (CA)

Feedback

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

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

Turn off AutoSuggest | + Add search field | Reset form

Databases Language Sort by Autostemming Treatment

16 records found in Compendex & Inspec for 2020-2025: ("TI-RADS" AND ("natural language processing" OR "report")) WN ALL

Refine

Remove duplicates

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

A post-structured analysis of chinese thyroid ultrasound report based on natural language processing technology and TI-RADS mode

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

Quick search for "multimodal AI" AND "thyroid" AND ("ultrasound" OR "pathology")

Turn off AutoSuggest | + Add search field | Reset form

Databases Language Sort by Autostemming Treatment

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

 About Engineering Village Accessibility Statement Terms and conditions

Copyright © 2025 Elsevier B.V., its licensors, and contributors. All rights are reserved, including those for text and data mining, AI training, and similar technologies. We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the [Cookie Settings](#).

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

Quick search for "radiology report generation" AND "deep learning"

Turn off AutoSuggest | + Add search field | Reset form

Databases Language Sort by Autostemming Treatment

143 records found in Compendex & Inspec for 2020-2025: ("radiology report generation" AND "deep learning") WN ALL

Refine

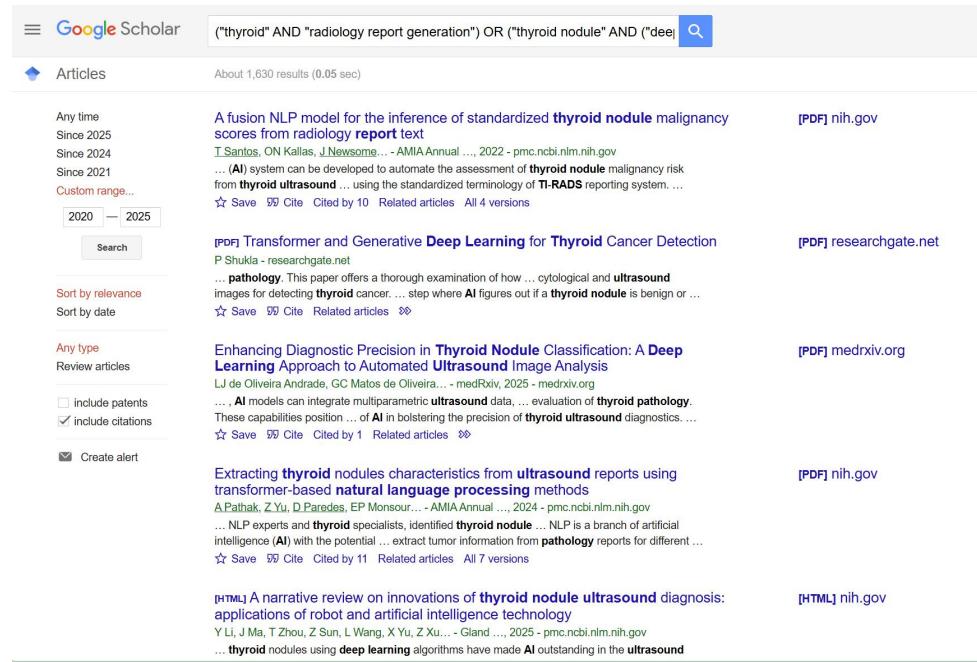
Remove duplicates

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 (J[A])
Show preview

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

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 ("thyroid" AND "radiology report generation")

Results: About 1,630 results (0.05 sec)

Refined search: Any time, 2020 — 2025, Sort by relevance

Articles

1. A fusion NLP model for the inference of standardized thyroid nodule malignancy scores from radiology report text
[PDF] nih.gov

2. Transformer and Generative Deep Learning for Thyroid Cancer Detection
[PDF] researchgate.net

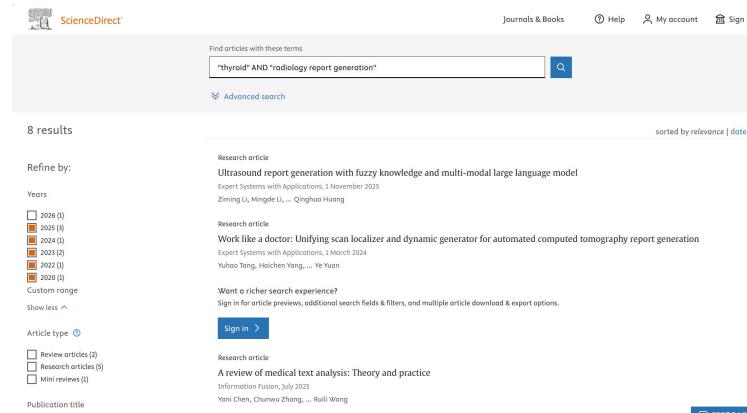
3. Enhancing Diagnostic Precision in Thyroid Nodule Classification: A Deep Learning Approach to Automated Ultrasound Image Analysis
[PDF] medrxiv.org

4. Extracting thyroid nodules characteristics from ultrasound reports using transformer-based natural language processing methods
[PDF] nih.gov

5. A narrative review on innovations of thyroid nodule ultrasound diagnosis: applications of robot and artificial intelligence technology
[HTML] nih.gov

5) Science Direct

("thyroid" AND "radiology report generation")



ScienceDirect search results for ("thyroid" AND "radiology report generation")

Results: 8 results

Refine by: Years (2026 [1], 2025 [10], 2024 [2], 2023 [2], 2022 [1], 2020 [1], Custom range...), Article type (Review articles [2], Research articles [5], Mini-reviews [1]), Publication title

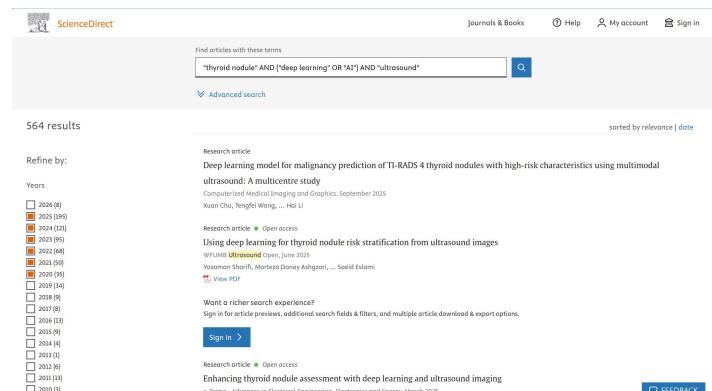
Sort by: relevance | date

1. Ultrasound report generation with fuzzy knowledge and multi-modal large language model
[PDF] (2025)

2. Work like a doctor: Unifying scan localizer and dynamic generator for automated computed tomography report generation
[PDF] (2024)

3. A review of medical text analysis: Theory and practice
[PDF] (2023)

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



ScienceDirect search results for ("thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound")

Results: 564 results

Refine by: Years (2026 [8], 2025 [195], 2024 [12], 2023 [95], 2022 [64], 2021 [59], 2020 [35], 2019 [34], 2018 [9], 2017 [8], 2016 [13], 2015 [9], 2014 [4], 2013 [1], 2012 [1], 2011 [1], 2010 [3]), Article type (Research article, Open access), Publication title

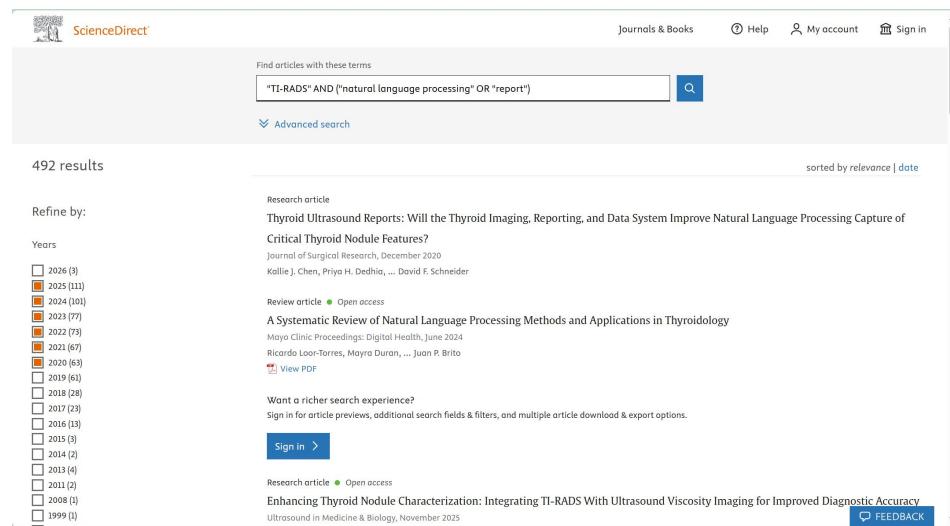
Sort by: relevance | date

1. Deep learning model for malignancy prediction of TI-RADS 4 thyroid nodules with high-risk characteristics using multimodal ultrasound: A multicentre study
[PDF] (2025)

2. Using deep learning for thyroid nodule risk stratification from ultrasound images
[PDF] (2023)

3. Enhancing thyroid nodule assessment with deep learning and ultrasound imaging
[PDF] (2020)

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



ScienceDirect

Find articles with these terms

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

492 results

sorted by relevance | date

Refine by:

Years

- 2026 (3)
- 2025 (111)
- 2024 (101)
- 2023 (77)
- 2022 (73)
- 2021 (67)
- 2020 (63)
- 2019 (61)
- 2018 (28)
- 2017 (23)
- 2016 (13)
- 2015 (9)
- 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

Katlie J. Chen, Priya H. Dodhia, ... David F. Schneider

Review article A Systematic Review of Natural Language Processing Methods and Applications in Thyroidology *Mayo Clinic Proceedings: Digital Health*, June 2024

Ricardo Loo-Torres, Mayra Duran, ... Juan P. Brito

View PDF

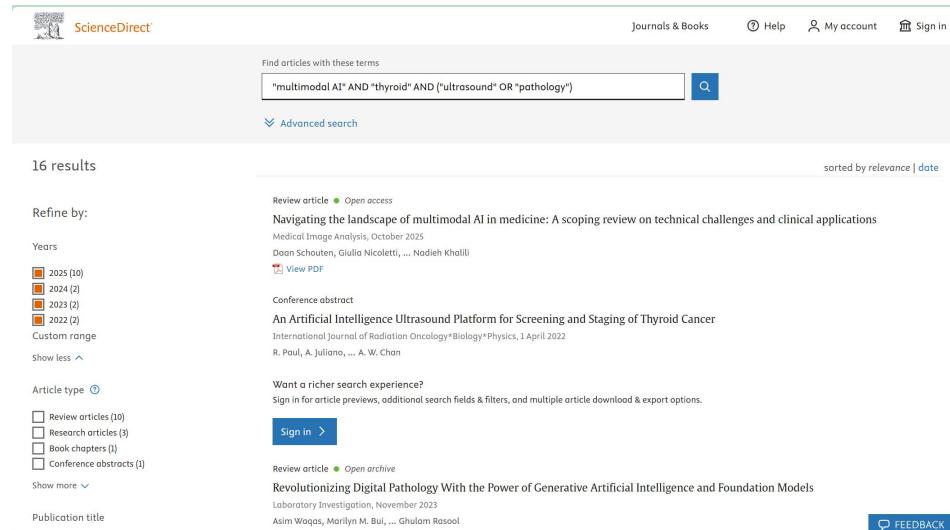
Want a richer search experience? Sign in for article previews, additional search fields & filters, and multiple article download & export options.

Sign in >

Research article Enhancing Thyroid Nodule Characterization: Integrating TI-RADS With Ultrasound Viscosity Imaging for Improved Diagnostic Accuracy *Ultrasound in Medicine & Biology*, November 2025

FEEDBACK

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



ScienceDirect

Find articles with these terms

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

16 results

sorted by relevance | date

Refine by:

Years

- 2025 (10)
- 2024 (2)
- 2023 (2)
- 2022 (2)

Custom range

Show less ^

Article type ⓘ

- Review articles (10)
- Research articles (3)
- Book chapters (1)
- Conference abstracts (1)

Show more ▾

Publication title

Want a richer search experience? Sign in for article previews, additional search fields & filters, and multiple article download & export options.

Sign in >

Review article Navigating the landscape of multimodal AI in medicine: A scoping review on technical challenges and clinical applications *Medical Image Analysis*, October 2025

Doan Schouten, Giulio Nicoletti, ... Nodieh Khoili

View PDF

Conference abstract An Artificial Intelligence Ultrasound Platform for Screening and Staging of Thyroid Cancer *International Journal of Radiation Oncology*Biology*Physics*, 1 April 2022

R. Paul, A. Juliano, ... A. W. Chan

Want a richer search experience? Sign in for article previews, additional search fields & filters, and multiple article download & export options.

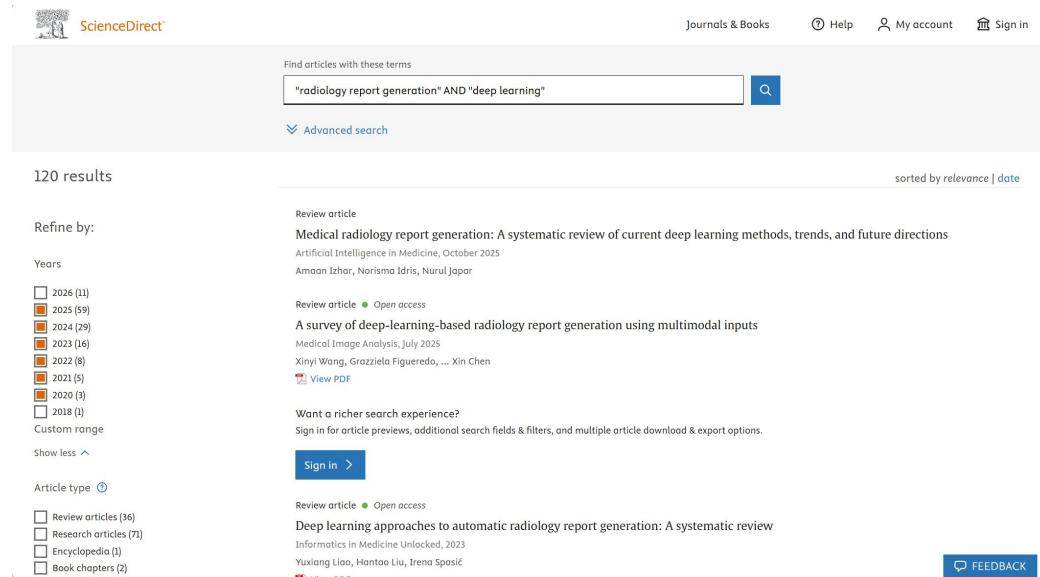
Sign in >

Review article Revolutionizing Digital Pathology With the Power of Generative Artificial Intelligence and Foundation Models *Laboratory Investigation*, November 2023

Asim Waqas, Marilyn M. Bul, ... Ghulam Resool

FEEDBACK

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



ScienceDirect

Find articles with these terms

"radiology report generation" AND "deep learning"

120 results

sorted by relevance | date

Refine by:

Years

- 2026 (11)
- 2025 (59)
- 2024 (29)
- 2023 (16)
- 2022 (8)
- 2021 (5)
- 2020 (3)
- 2018 (1)

Custom range

Show less ^

Article type ⓘ

- Review articles (36)
- Research articles (71)
- Encyclopedia (1)
- Book chapters (2)

Want a richer search experience? Sign in for article previews, additional search fields & filters, and multiple article download & export options.

Sign in >

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 A survey of deep-learning-based radiology report generation using multimodal inputs *Medical Image Analysis*, July 2025

Xinyi Wong, Graciela Figueiredo, ... Xin Chen

View PDF

Want a richer search experience? Sign in for article previews, additional search fields & filters, and multiple article download & export options.

Sign in >

Review article Deep learning approaches to automatic radiology report generation: A systematic review *Informatics in Medicine Unlocked*, 2023

Yuxiong Liao, Hantao Liu, Trena Spasic

FEEDBACK

6) Springer

("thyroid" AND "radiology report generation")

SPRINGER NATURE Link

Log in

Find a journal Publish with us Track your research

Cart

Search for articles, journals, books, authors, videos
"thyroid" AND "radiology report generation"

[Advanced search](#) [Search help](#)

Showing 1-3 of 3 results Sort by (updates page)

Content Type

Publishing model

Date published

Intelligent Head and Neck CTA Report Quality Detection with Large Language Models
Article | 
This study aims to identify common errors in head and neck CTA reports using GPT-4, ERNIE Bot, and SparkDesk, evaluating their potential for...
Liping Tian, Yao Lu, ... Jie Lu in *Journal of Imaging Informatics in Medicine*
27 August 2025

Convergence of evolving artificial intelligence and machine learning
Article | 

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

SPRINGER NATURE Link

Log in

Find a journal Publish with us Track your research

Cart

Search for articles, journals, books, authors, videos
"thyroid nodule" AND ("deep learning" OR "AI") AND "ultrasound"

[Advanced search](#) [Search help](#)

Showing 1-20 of 405 results Sort by (updates page)

Content Type

Deep learning based motion correction in ultrasound microvessel imaging approach improves thyroid nodule classification
Article | 
To address inter-frame motion artifacts in ultrasound quantitative high-definition microvasculature imaging (qHDMI), we introduced a novel deep...
Manali Saini, Nicholas B. Larson, ... Azra Alizad in *Scientific Reports*
30 May 2025 |

Advance of Thyroid Nodule Ultrasound Diagnosis Based on Deep Learning
Conference paper | 

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

SPRINGER NATURE Link

Log in

Find a journal Publish with us Track your research

Cart

Search for articles, journals, books, authors, videos
"TI-RADS" AND ("natural language processing" OR "report")

[Advanced search](#) [Search help](#)

Showing 1-20 of 240 results Sort by (updates page)

Content Type

The added value of including thyroid nodule features into large language models for automatic ACR TI-RADS classification based on ultrasound reports
Article | 
Objective
The ACR Thyroid Imaging, Reporting, and Data System (TI-RADS) uses a score based on ultrasound (US) imaging to stratify the risk of nodule...
Pilar López-Úbeda, Teodoro Martín-Noguerol, ... Antonio Luna in *Japanese Journal of Radiology*
25 November 2024

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

SPRINGER NATURE Link

Log in

Find a journal Publish with us Track your research

Search

Cart

Search for articles, journals, books, authors, videos

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

Search

[Advanced search](#) [Search help](#)

Showing 1–13 of 13 results

[Download results \(.csv\)](#)

[RSS feed](#)

Sort by (updates page)

Relevance

Content Type

- Article (13)
- Review article (4)
- Research article (2)
- News article (1)

2020–2025

Publishing model

- Open access (4)

[Clear selected](#)

[Update results](#)

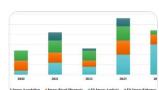
Article Full access

Comprehensive review of reinforcement learning for medical ultrasound imaging

Medical Ultrasound (US) imaging has seen increasing demands over the past years, becoming one of the most preferred imaging modalities in clinical...

Hanae Elmekki, Saidul Islam, ... Azzam Mourad in [Artificial Intelligence Review](#)

23 June 2025 | [Open access](#)



Article Full access

Convergence of evolving artificial intelligence and machine learning



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

SPRINGER NATURE Link

Log in

Find a journal Publish with us Track your research

Search

Cart

Search for articles, journals, books, authors, videos

"radiology report generation" AND "deep learning"

Search

[Advanced search](#) [Search help](#)

Showing 1–20 of 109 results

[Download results \(.csv\)](#)

[RSS feed](#)

Sort by (updates page)

Relevance

Content Type

- Article (55)
- Chapter (54)
- Conference paper (47)
- Research article (35)
- Review article (14)

2020–2025

Publishing model

- Open access (22)

[Clear selected](#)

[Update results](#)

Article Full access

Automatic radiology report generation with deep learning: a comprehensive review of methods and advances

Automatic report generation refers to the process of generating medical reports from medical images without the need for manual intervention,...

Yilin Li, Chao Kong, ... Zijian Zhao in [Artificial Intelligence Review](#)

21 August 2025 | [Open access](#)



Conference paper Full access

