Resource Summary Report

Generated by NIF on May 20, 2025

pydicom

RRID:SCR_002573
Type: Tool

Proper Citation

pydicom (RRID:SCR_002573)

Resource Information

URL: https://pydicom.github.io/

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Description: Software Python package for working with DICOM files, made for inspecting and modifying DICOM data in an easy pythonic way. The modifications can be written again to a new file. As a pure python package, it should run anywhere python runs without any other requirements.

Abbreviations: pydicom

Resource Type: software resource, software toolkit

Keywords: reusable library, console (text based), dicom, magnetic resonance, os independent, python

Funding:

Availability: Free, Available for download, Freely available

Resource Name: pydicom

Resource ID: SCR_002573

Alternate IDs: nlx_155976

Alternate URLs: http://www.nitrc.org/projects/pydicom, https://sources.debian.org/src/python3-pydicom/,

Old URLs: http://pydicom.googlecode.com

License: MIT License

Record Creation Time: 20220129T080214+0000

Record Last Update: 20250519T204901+0000

Ratings and Alerts

No rating or validation information has been found for pydicom.

No alerts have been found for pydicom.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 64 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Chen KW, et al. (2025) Usefulness of preprocedural 3-dimensional computed tomography planning in assisting one-stage pulmonary veins isolation with concomitant left atrial appendage occlusion procedure: A pilot study. International journal of cardiology. Heart & vasculature, 56, 101594.

Wei Y, et al. (2024) Focal liver lesion diagnosis with deep learning and multistage CT imaging. Nature communications, 15(1), 7040.

Bayrakdar IS, et al. (2024) Artificial intelligence system for automatic maxillary sinus segmentation on cone beam computed tomography images. Dento maxillo facial radiology, 53(4), 256.

Nishigaki D, et al. (2024) Vision transformer to differentiate between benign and malignant slices in 18F-FDG PET/CT. Scientific reports, 14(1), 8334.

Ryu WS, et al. (2024) Deep Learning-Based Automatic Classification of Ischemic Stroke Subtype Using Diffusion-Weighted Images. Journal of stroke, 26(2), 300.

McNulty AK, et al. (2024) Assessment by finite element analysis modelling of tissue strains associated with the use of two different nasogastric tube securement devices. The Journal of international medical research, 52(8), 3000605241264799.

Camastra C, et al. (2024) Development and Implementation of an Innovative Framework for Automated Radiomics Analysis in Neuroimaging. Journal of imaging, 10(4).

Dumbrique JIS, et al. (2024) Pneumothorax detection and segmentation from chest X-ray radiographs using a patch-based fully convolutional encoder-decoder network. Frontiers in radiology, 4, 1424065.

Zhixin L, et al. (2024) CHD-CXR: a de-identified publicly available dataset of chest x-ray for congenital heart disease. Frontiers in cardiovascular medicine, 11, 1351965.

Dunn L, et al. (2024) Assessing the sensitivity and suitability of a range of detectors for SIMT PSQA. Journal of applied clinical medical physics, 25(5), e14343.

O'Shea R, et al. (2024) Multicentre validation of CT grey-level co-occurrence matrix features for overall survival in primary oesophageal adenocarcinoma. European radiology, 34(10), 6919.

Christensen M, et al. (2024) Vision-language foundation model for echocardiogram interpretation. Nature medicine, 30(5), 1481.

Halchenko YO, et al. (2024) HeuDiConv - flexible DICOM conversion into structured directory layouts. Journal of open source software, 9(99).

Moglia A, et al. (2024) Mixed Reality and Artificial Intelligence: A Holistic Approach to Multimodal Visualization and Extended Interaction in Knee Osteotomy. IEEE journal of translational engineering in health and medicine, 12, 279.

Manzke M, et al. (2024) Development and performance evaluation of fully automated deep learning-based models for myocardial segmentation on T1 mapping MRI data. Scientific reports, 14(1), 18895.

Reinecke D, et al. (2024) Fast intraoperative detection of primary CNS lymphoma and differentiation from common CNS tumors using stimulated Raman histology and deep learning. medRxiv : the preprint server for health sciences.

Wongveerasin P, et al. (2024) Deep learning for tubes and lines detection in critical illness: Generalizability and comparison with residents. European journal of radiology open, 13, 100593.

Lenskjold A, et al. (2024) Artificial intelligence tools trained on human-labeled data reflect human biases: a case study in a large clinical consecutive knee osteoarthritis cohort. Scientific reports, 14(1), 26782.

Kim J, et al. (2024) Automated Characterization of Abdominal MRI Exams Using Deep Learning. Research square.

Nam HS, et al. (2023) Key-Point Detection Algorithm of Deep Learning Can Predict Lower Limb Alignment with Simple Knee Radiographs. Journal of clinical medicine, 12(4).