

Resource Summary Report

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[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

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: 20260725T191224+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 90 mentions in open access literature.

Listed below are recent publications. The full list is available at [nidm-terms](#) .

Krag CH, et al. (2026) Motion artifacts and image quality in stroke MRI: associated factors and impact on AI and human diagnostic accuracy. *European radiology*, 36(1), 265.

Kim K, et al. (2025) Deep learning-based organ-wise dosimetry of ⁶⁴Cu-DOTA-rituximab through only one scanning. *Scientific reports*, 15(1), 5627.

Sowa H, et al. (2025) Perivascular inflammation in the progression of aortic aneurysms in Marfan syndrome. *JCI insight*, 10(19).

Dendo Y, et al. (2025) A practical slice averaged image method for precise CT size specific dose estimates. *Scientific reports*, 15(1), 42870.

Lee SJ, et al. (2025) Deep Learning-Based Landmark Detection Model for Multiple Foot Deformity Classification: A Dual-Center Study. *Yonsei medical journal*, 66(8), 491.

Erenstein H, et al. (2025) The Effect of Simulated Dose Reduction on the Performance of Artificial Intelligence in Chest Radiography. *Journal of imaging*, 11(3).

Macsuka MJ, et al. (2025) A novel fast strategy to calculate equieffective doses under different dose rate conditions. *Medical physics*, 52(5), 3416.

Zhao M, et al. (2025) A multiomics dataset of paired CT image and plasma cell-free DNA end motif for patients with pulmonary nodules. *Scientific data*, 12(1), 545.

Deng J, et al. (2025) AI-enhanced cancer radiotherapy quality assessment: utilizing daily linac performance, radiomics, dosimetrics, and planning complexity. *Frontiers in oncology*, 15, 1503188.

Lozoya RSL, et al. (2025) Mexican dataset of digital mammograms (MEXBreast) with suspicious clusters of microcalcifications. *Data in brief*, 60, 111587.

Yasaka K, et al. (2025) Large multimodality model fine-tuned for detecting breast and esophageal carcinomas on CT: a preliminary study. *Japanese journal of radiology*, 43(5), 779.

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.

Sivamani Chidambaram R, et al. (2025) Automated Workflow for Processing and Classifying Dental Radiographs: A Hands-On Approach. *Cureus*, 17(5), e84816.

Huang W, et al. (2025) Automatic radiotherapy planning for deliverable plans using deep learning dose prediction and dose rings optimization in cervical cancer. *Journal of applied clinical medical physics*, 26(11), e70353.

Nishizawa T, et al. (2025) Attention-based multimodal deep learning for interpretable and generalizable prediction of pathological complete response in breast cancer. *Journal of translational medicine*, 23(1), 774.

Barrios J, et al. (2025) Multi-institutional atlas of brain metastases informs spatial modeling for precision imaging and personalized therapy. *Nature communications*, 16(1), 4536.

Flores JD, et al. (2025) Optimization of Low-Contrast Detectability in Abdominal Imaging: A Comparative Analysis of PCCT, DECT, and SECT Systems. *Medical physics*, 52(5), 2832.

Kurt-Bayrakdar S, et al. (2025) Advancing periodontal diagnosis: harnessing advanced artificial intelligence for patterns of periodontal bone loss in cone-beam computed tomography. *Dento maxillo facial radiology*, 54(4), 268.

Kim KH, et al. (2025) Translation of computed tomography images to T2-Weighted magnetic resonance images of lumbar spine using generative adversarial networks on sagittal images. *Scientific reports*, 15(1), 18385.

Black JA, et al. (2025) 3D printing of an optic pathway model from 7T MRI for education. *3D printing in medicine*, 11(1), 47.