

Resource Summary Report

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LIFEx

RRID:SCR_025284

Type: Tool

Proper Citation

LIFEx (RRID:SCR_025284)

Resource Information

URL: <https://www.lifexsoft.org/>

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Description: Software for calculation of radiomic features for medical images. Enables calculation of conventional, histogram based, textural, and shape features from PET, SPECT, MR, CT, and US images, or from any combination of imaging modalities. Dedicated to researchers, radiologists, nuclear medicine physicians and oncologists to give access to 306 histogram, textural and shape indices in addition to conventional indices and where users can change calculation options.

Resource Type: data processing software, software application, software resource, image analysis software

Defining Citation: [PMID:29959149](#)

Keywords: radiomic features calculation, medical images, histogram, textural, shape features, PET, SPECT, MR, CT, US, images,

Funding: IDEX Paris-Saclay University ;
European Commission

Availability: Restricted

Resource Name: LIFEx

Resource ID: SCR_025284

Record Creation Time: 20240426T053251+0000

Record Last Update: 20260815T042934+0000

Ratings and Alerts

No rating or validation information has been found for LIFEx.

No alerts have been found for LIFEx.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 116 mentions in open access literature.

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

Tan SI, et al. (2026) Assessing Respiratory Motion Stability of Novel 18F-Fluorodeoxyglucose Positron Emission Tomography-Derived Morphological Features. *Diagnostics* (Basel, Switzerland), 16(7).

Samson DO, et al. (2026) SHAP-based interpretable machine learning with longitudinal delta-radiomics across seven weeks of treatment for xerostomia prediction in head-and-neck cancer. *Radiation oncology* (London, England), 21(1).

Yagci S, et al. (2026) Unlocking Tumor Aggressiveness in Endometrial Cancer: AI-Driven PET/CT Radiomics and Machine Learning for Prediction of High-Risk Tumor Histology. *Cancers*, 18(6).

Fasmer KE, et al. (2026) Toward reproducible metabolic tumor volume quantification in endometrial cancer: optimizing [^{18}F]FDG PET/CT tumor segmentation methods. *EJNMMI research*, 16(1).

Bozer A, et al. (2026) CT-based texture analysis for preoperative prediction of key histopathological features in laryngeal cancer. *Polish journal of radiology*, 91, e115.

He Y, et al. (2026) Baseline 18F-FDG PET/CT habitat radiomics versus dual-channel deep learning for predicting interim PET early metabolic response in diffuse large B-cell lymphoma: a comparative study. *Frontiers in oncology*, 16, 1801204.

Jiang C, et al. (2026) Interpretable multimodal PET/CT-EHR fusion via mixture-of-experts for prognostic stratification in mantle cell lymphoma: a multicenter study. *BMC medicine*, 24(1).

Liao YF, et al. (2026) Clinical study of 18F-FDG PET/CT radiomics in differentiating pulmonary solitary solid adenocarcinoma nodules and inflammatory nodules. *PeerJ*, 14, e21188.

Xie R, et al. (2026) MRI- and report-based multimodal model with SHAP-based explanation for preoperative prediction of deep stromal invasion in early-stage cervical cancer. *Insights into imaging*, 17(1).

Nüssel M, et al. (2026) Standardized contrast-enhanced CT-based radiomics for non-invasive prediction of TTF-1 status in lung adenocarcinoma: A cross-validated single-center study. *European journal of radiology open*, 16, 100770.

Spiegel T, et al. (2026) Uptake Patterns of [18F]Fluoroestradiol PET/MRI in Benign Breast Lesions and Molecular Breast Cancer Subtypes. *Cancers*, 18(4).

Li P, et al. (2026) A study on 18F-FDG PET/CT imaging assessment of the anti-aging efficacy of BMMSCs in the macaque brain. *Stem cells translational medicine*, 15(6).

Zhao H, et al. (2026) 18F-FDG PET-based ensemble deep learning model for the prediction of lymphovascular invasion in colorectal cancer patients. *Abdominal radiology (New York)*, 51(5), 2304.

Serçe Unat D, et al. (2026) Preoperative Prediction of Spread Through Air Spaces in Lung Cancer Using 18F-FDG PET-Based Radiomics and Peritumoral Microenvironment Features. *Diagnostics (Basel, Switzerland)*, 16(5).

Schmidt R, et al. (2026) Feasibility of automated AI-based contouring and stable radiomic feature assessment by HyperSight-CBCT Imaging for adaptive high-precision radiotherapy of prostate cancer. *Scientific reports*, 16(1).

Cui S, et al. (2026) Metabolic Bulk Volume is an independent prognostic factor and facilitates identifying high risk cases for DLBCL patients treated with the R-CHOP. *Frontiers in oncology*, 16, 1747186.

Lee C, et al. (2026) Quantitative assessment of condylar bone changes in osteoarthritis patients using single-photon emission computed tomography/computed tomography and magnetic resonance imaging. *Dento maxillo facial radiology*, 55(2), 158.

Stocker D, et al. (2025) Prediction of hepatocellular carcinoma response to radiation segmentectomy using an MRI-based machine learning approach. *Abdominal radiology (New York)*, 50(5), 2000.

Liu Y, et al. (2025) Effect of reconstruction settings on radiomics feature robustness in positron emission tomography images: a clinical study. *Quantitative imaging in medicine and surgery*, 15(10), 9515.

Cui C, et al. (2025) A proof of concept study of 18F-FDG PET/CT patient-level radiomics identify refractory/relapsed diffuse large B-cell lymphoma. *Scientific reports*, 15(1), 33914.