



LIFEx: a freeware for radiomic feature calculation in multimodality imaging to accelerate advances in the characterization of tumor heterogeneity

● C Nioche, F Orlhac, S Boughdad, S Reuzé, J Goya-Outi, C Robert, C Pellot-Barakat, M Soussan, F Frouin, and I Buvat. [Cancer Research 2018; 78\(16\):4786-4789](#)

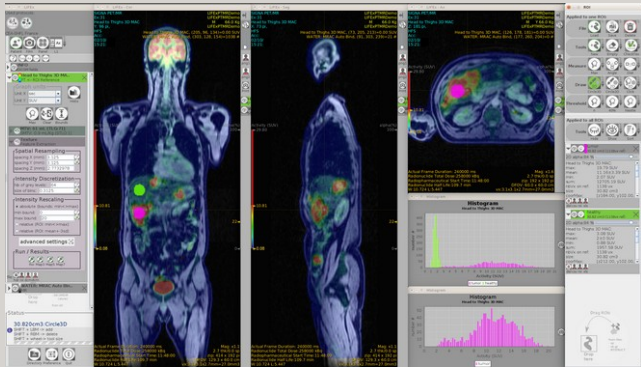


Image viewer of mono or multi-modalities (PET, SPECT, CT, MRI, US)



Textural features: radiomic features demonstrating tissue heterogeneity



MTV: metabolic tumor volume over the whole body



Licence (CEA)

NON-PROFESSIONAL USERS ARE NOTIFIED THAT THE SOFTWARE AND THE RISKS INHERENT TO ITS USE, MODIFICATION AND/OR DEVELOPMENT AND REPRODUCTION ARE NOT COVERED BY ANY WARRANTY ON THE PART OF THE CEA



Download & support : www.lifexsoft.org
contact@lifexsoft.org



LIFEx complies with the Image biomarker standardisation initiative (IBSI) <https://arxiv.org/abs/1612.07003>



A post-reconstruction harmonization method for multicenter radiomic studies in PET

● F Orlhac, S Boughdad, C Philippe, H Stalla-Bourdillon, C Nioche, L Champion, M Soussan, F Frouin, V Frouin, I Buvat. [J Nucl Med. 2018 Aug;59\(8\):1321-1328](#)



Validation of a method to compensate multicenter effects affecting CT radiomics

● F Orlhac, F Frouin, C Nioche, N Ayache, I Buvat. [Radiology 2019 Published Online:Jan 29 2019](#)

Several reports have shown that radiomic features are affected by acquisition and reconstruction parameters, thus hampering multicenter studies. We propose a method that, by removing the center effect while preserving patient-specific effects, standardizes features measured from PET (including SUVmax, SUVmean,...) and CT obtained using different imaging protocols.

