

'We are very satisfied with using TexRAD for our scientific research. TexRAD has helped us to produce a huge amount of data some of which has been published or is under consideration by eminent journals!'

Professor Roberto Maroldi
Head of the Department of Radiology, University of Brescia, Italy

TexRAD user since: 2014

Texture analysis: Lung, colorectal, renal carcinomas, head and neck cancer and cardiomyopathies

Modalities: MRI and CT

Output data: Prediction of response to new biological cancer therapies including metastatic lung, colorectal, renal carcinomas to biological agents such as TKIs and immunotherapy. Currently, testing TexRAD in classifying head and neck cancer and cardiomyopathies on MRI.

Additional insights:

We were persuaded to choose TexRAD instead of other open source texture analysis software's because of some of the following reasons:

- The filtration-histogram method is easier compared to other methods, the number of extracted features is relatively low and they may be connected to image characteristics that can be intuitively correlated with histological and biological tissue features. The low number of features leads to lower complex predictive models with an intrinsic lower risk of overfitting and variance.
- The filtration step has been demonstrated to render texture features less sensitive to acquisition parameters.
- Connection with PACS and user friendly interface meant working with TexRAD was fast and easy.
- The integrated data miner feature sped up data analysis and includes some tools such as best log-rank Kaplan Meier which is of great help in preliminary analysis.
- The number of published studies at the moment of our decision to buy TexRAD seemed to guarantee a good impulse to our future research.