

# Readme

Information here provided can be used to reproduce the results in the paper *Characterization of defects of pulsed thermography inspections by orthogonal polynomial decomposition*. Because of the large amount of space required by the thermal sequences, and because *github* does not support big data files, the IR sequences are available at: <https://www.dropbox.com/sh/2elpd6g19b87r59/AAC7pH9SGcQRhaiqqA4mtghKa?dl=0>.

The following files allow reproducing the results:

1. `mainSyntheticCFRP.m` and data file `syntheticCFRP.mat`
2. `mainCFRPsample.m` and data file `CFRPsmample.mat`
3. `mainGFRPsamle.m` and data file `GFRPsamle.mat`

The first m-file reproduces Figures 9-12 and Table 1; the second m-file Figures 15-18 and Table 2; the last m-file Figures 19-22 and Table 3.

Consider that the mat-files and the m-files must be in the same directory as well the *functions* folder. That directory can be anywhere in your machine, you only need to add the path when Matlab requests it (by clicking the *Add to Path* button after clicking the *Run* button).