## 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://ldrv.ms/f/s!AgtrBjgDiWxVhkikDqqTeU-d76eJ. Any version of Matlab can be used.

The following files allow reproducing the results:

- 1. mainSyntheticCFRP.m and data file syntheticCFRP.mat
- 2. mainCFRPsample.m and data file CFRPsmaple.mat
- 3. mainGFRPsample.m and data file GFRPsample.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). You need the signal processing toolbox in order to run the m-files without problems (findpeaks() and resample() functions from the toolbox are needed).