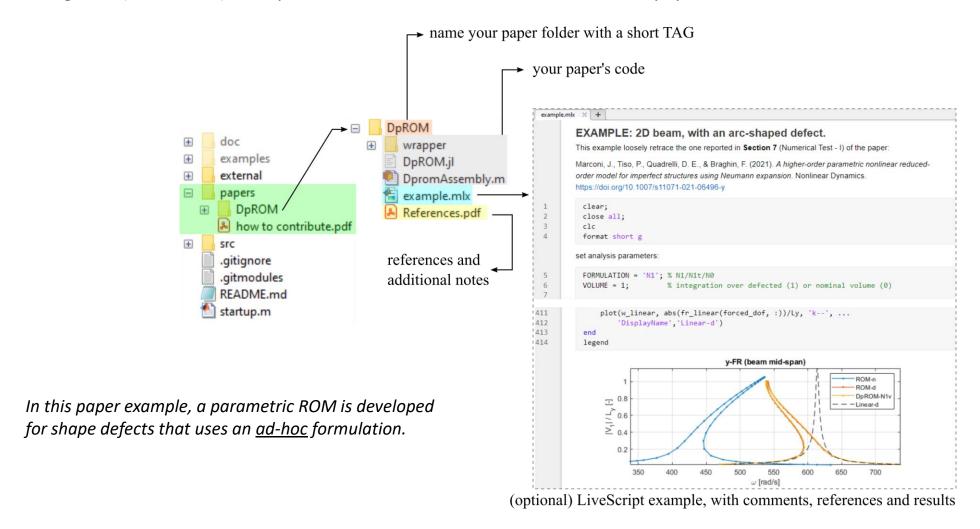# GUIDE: how to include paper contributions

One of the final aims of *YetAnotherFEcode* is to offer a platform for reproducible scientific research. This guide synthetically shows how to add codes used in your journal papers, *following the guiding principle to keep the code as modular and general as possible*. In the following, let us distinguish between:

- **General purpose code**: all the code that can reasonably be used in different projects, even though (possibly) developed along with a paper contribution (example: a new element type). This kind of code should be included in yaFEc with regular commits and pull requests.

- **Paper-specific code**: all the functions that are used <u>in a specific publication</u>. It may include newly developed formulations to tackle specific problems (see the DpROM example, next). This kind of code should be kept separate from the rest of the code, and it's the object of this guide.

The "papers" folder

In this folder, you can create your subfolder, to be named <u>with a short TAG</u>. Here all your *paper-specific code* must be included, along with (if available) examples, references and notes. Do NOT include papers and/or data files.

name your paper folder with a short TAG

your paper's code

references and additional notes

In this paper example, a parametric ROM is developed for shape defects that uses an <u>ad-hoc</u> formulation.

(optional) LiveScript example, with comments, references and results

Code in *"src"*

In some cases, some paper-specific functions and methods must be included in the **src** folder to work with previously existing classes. To do so, add these methods as separate functions in the class folders ("@classname") with the naming convention: "[paper tag]_[method name].m". For clarity, also add *references* in each function.

include, in each such function, the paper and *code* references for clarity and easy navigation

these *paper-specific* methods are named "[paper tag]_[method name].m"