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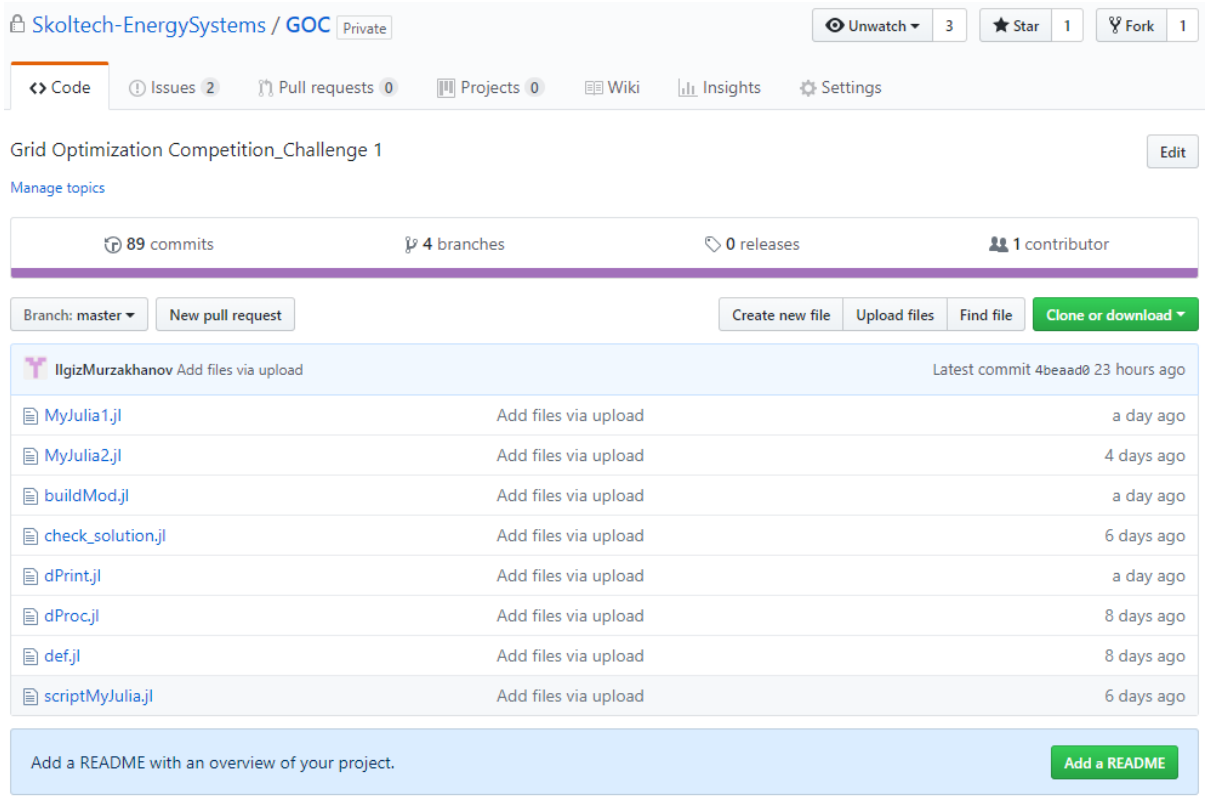
# Grid Optimization Competition

## Code structure

2018

# Github

- Install and use JuliaPro v0.6.3.
- The latest version of the code is in the master branch of GOC repository.
- To run the code on your local machine, first download the archive.
- You also need to download all input files.



# The functions of the files

- scriptMyJulia.jl => the script for running in JuliaPro;
- MyJulia1.jl => The called function on GO competition;
- MyJulia2.jl => For now is just a duplicate of MyJulia1.jl and not used;
- def.jl => Defines the formats of data structures;
- dProc.jl => Processes input .raw and .csv files into prescribed formats;
- buildMod.jl => Contains our model of AC OPF;
- dPrint.jl => Writing results in .txt files;
- Check_solution.jl => Checks if the obtained solution violates any constraints.

# The files you will work with

scriptMyJulia.jl => run the code by “Ctrl-Shift-Enter” combination;
buildMod.jl =>  implement your ideas on relaxation methods: SOCP, SDP, etc;

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# Submit your model to the GO platform

- Create your Teammate_X branch on GitHub;
- Upload your buildMod.jl there;
- Create submission on the GO platform =>
- Check for score and objective.