

# 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.

Skoltech-EnergySystems / GOC Private

Unwatch 3 Star 1 Fork 1

<> Code Issues 2 Pull requests 0 Projects 0 Wiki Insights Settings

Grid Optimization Competition\_Challenge 1 Edit

Manage topics

89 commits 4 branches 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

IlgizMurzakanov Add files via upload Latest commit 4beaad0 23 hours ago

MyJulia1.jl	Add files via upload	a day ago
MyJulia2.jl	Add files via upload	4 days ago
buildMod.jl	Add files via upload	a day ago
check_solution.jl	Add files via upload	6 days ago
dPrint.jl	Add files via upload	a day ago
dProc.jl	Add files via upload	8 days ago
def.jl	Add files via upload	8 days ago
scriptMyJulia.jl	Add files via upload	6 days ago

Add a README with an overview of your project. Add a README

## 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;

## 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.

### CREATE SUBMISSION

#### Submission Name

Teammate\_X\_relaxation method

Provide a simple name to help you distinguish between submissions.

#### Submission Notes

Please enter any notes you may have regarding this submission

#### Repository Name \*

GOC

Please enter the name of the repository you would like us to pull from.

#### Repository Branch

Teammate\_X

#### Language \*

Julia

What language is your executable? In other words, what is the extension of your my\*. In order to find the correct script?

#### Dataset \*

Beta Phase: IEEE 14 Bus (1 Scenario)

Please select the data set to be evaluated against.

#### Scoring/Division \*

☒ Real-time (10 mins)

☐ Offline (45 mins)

Choose the division for scoring purposes of low cost and performance profiles.

#### Team \*

Skoltech-EnergySystems

Please select the team on behalf of whom you are creating this submission.

#### Competition \*

Sandbox

What competition are you submitting to?