Results of the paper

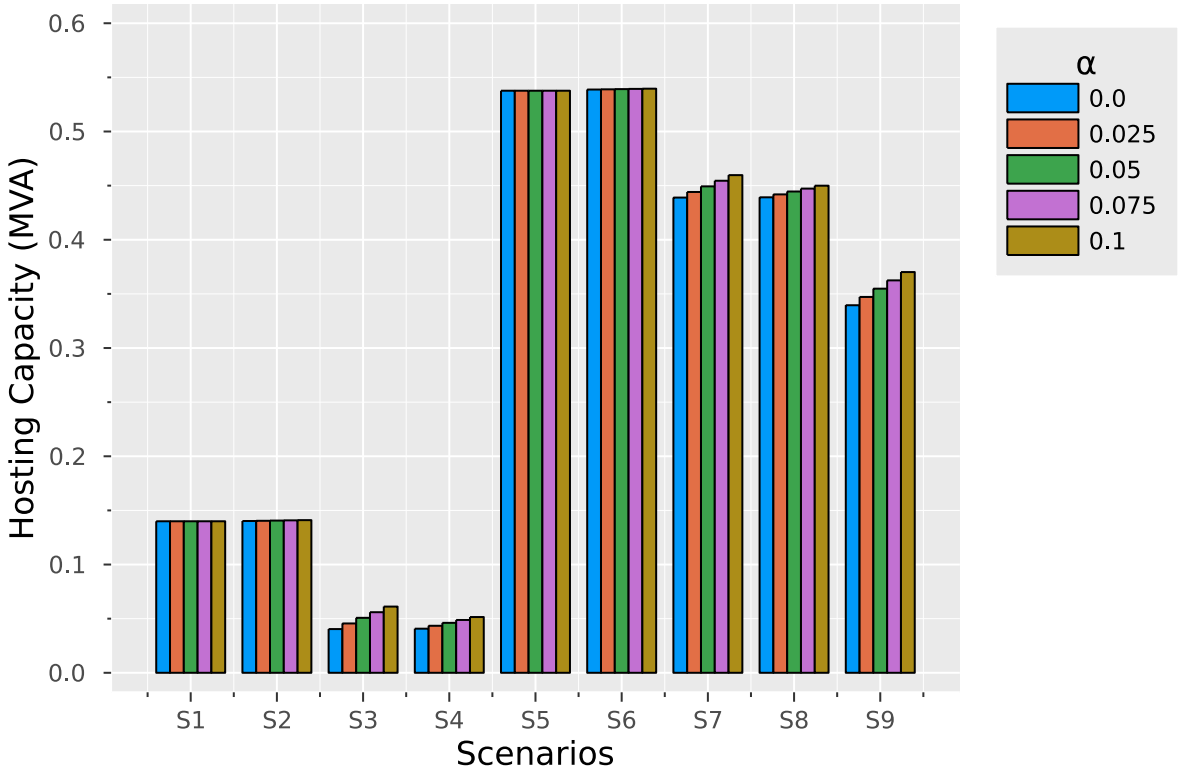
The Mathematical model can be found on HCEstimator.jl

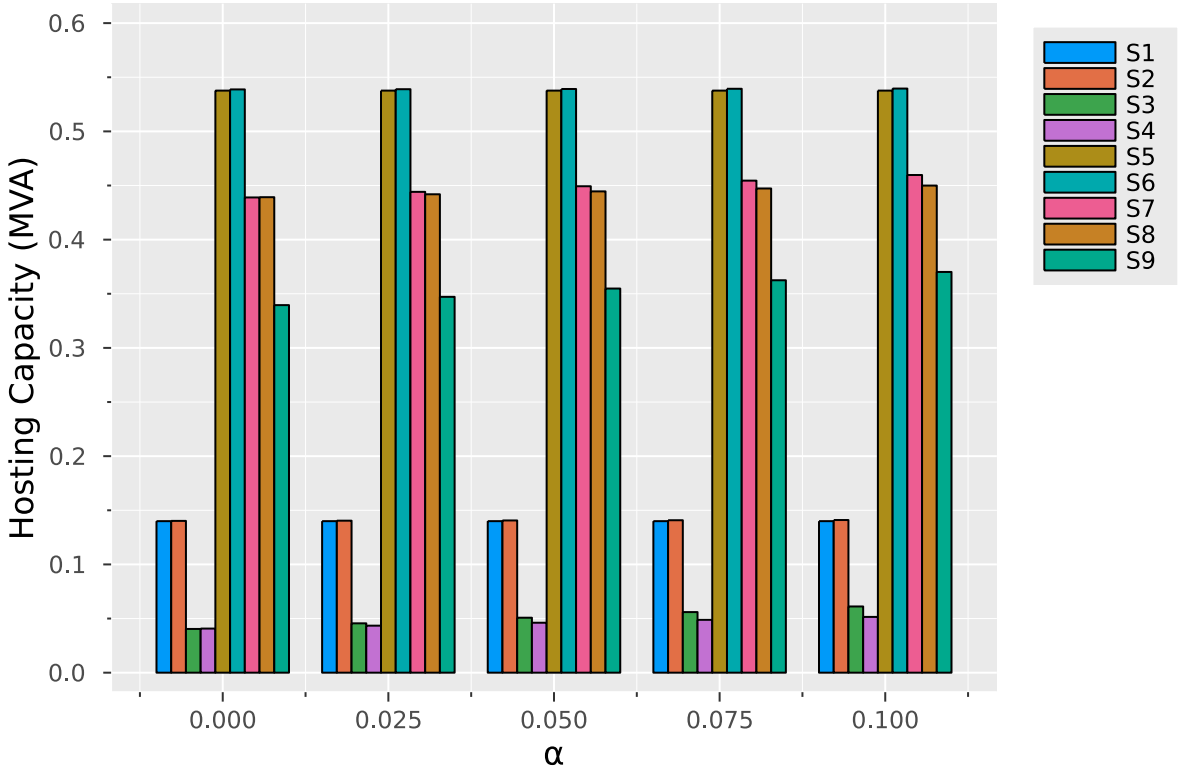
Scenarios:

- S1: No DGs and EV.
- S2: 3° Party 0.1 MW Renewable DGs on buses 26, 29, 13, and 6
- S3: Same of S2 and 3° Party 50kW/50kWh ESSs on buses 4and 32
- S4: Same of S2 and 3° Party 50kW EV chagers on buses 17 and 20
- S5: Full dispaced 0.1 MVA DG on buses 18, 33, 22, and 25
- S6: Same of S5 and same of S2
- S7: Same of S5 and same of S3
- S8: Same of S5 and same of S4
- S9: Same of S5, same of S4 and 3° Party 50kW/50kWh ESSs on buses 4 and 32

Estimation for DG and EV together (ESS case)

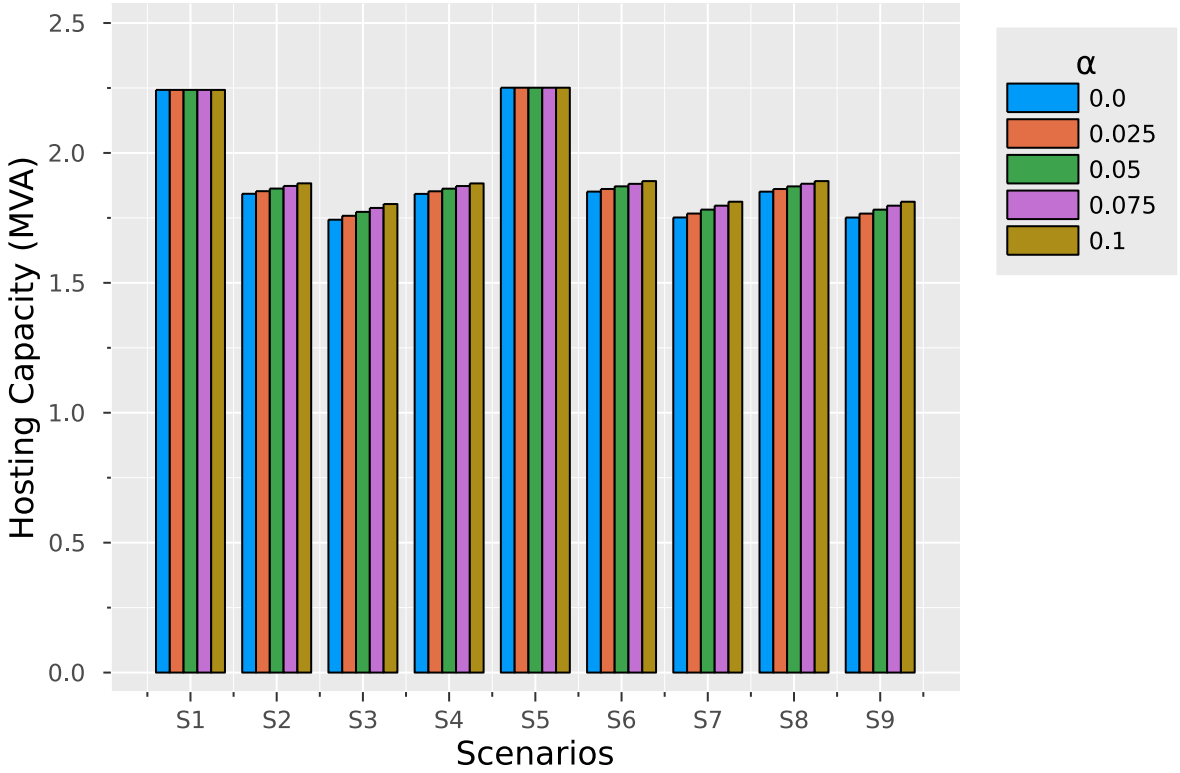
```
data = DataFrame(CSV.File("./results.csv"));
```

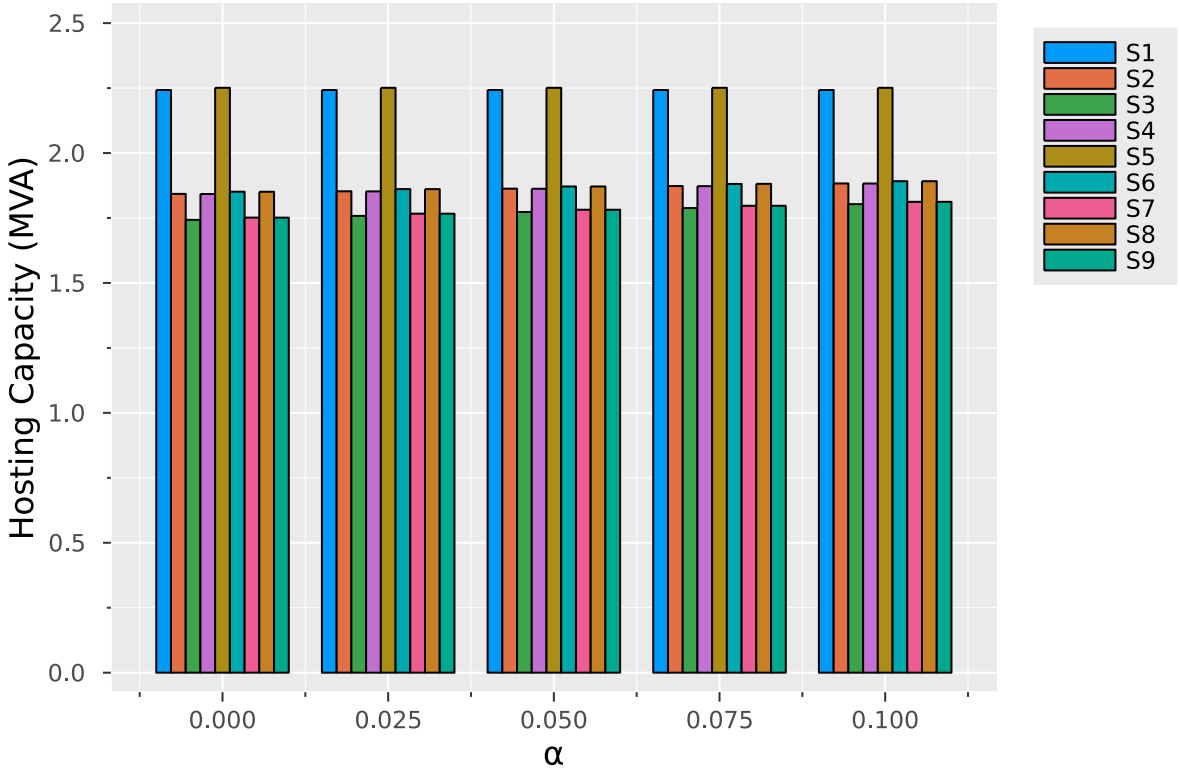




Estimation for only DG

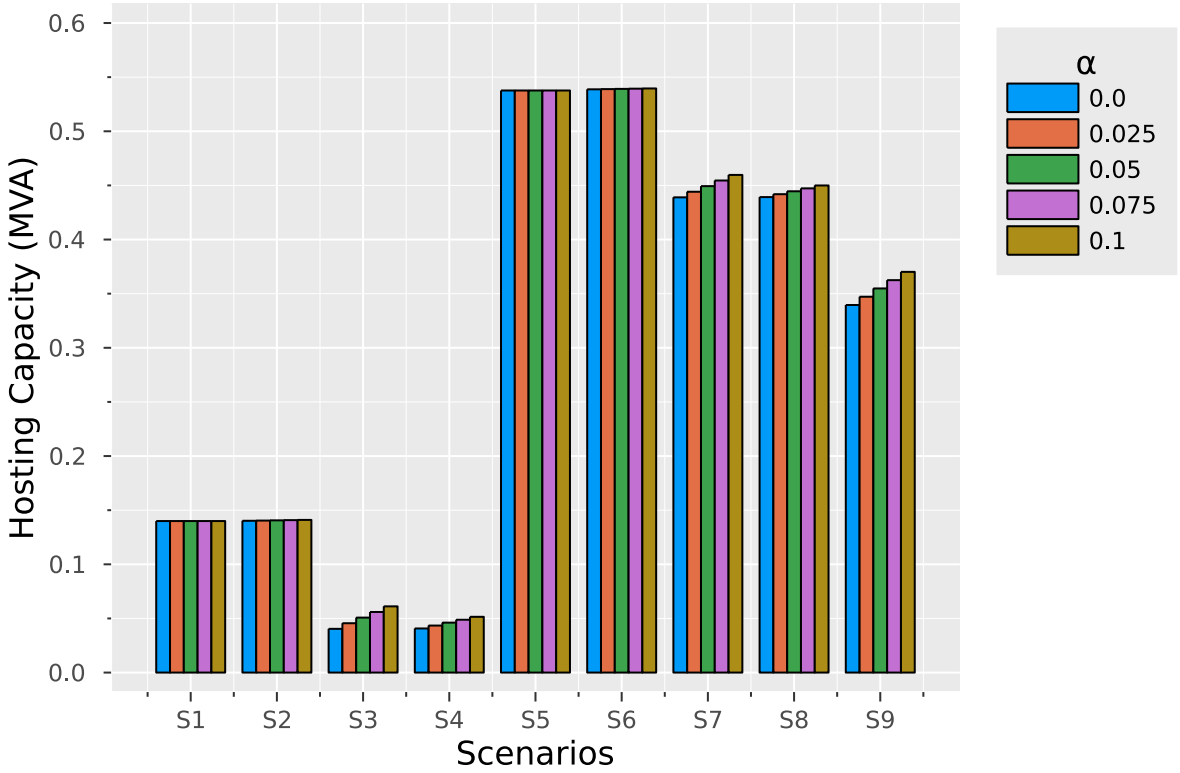
```
data_dg = DataFrame(CSV.File("./results_dg.csv"));
```

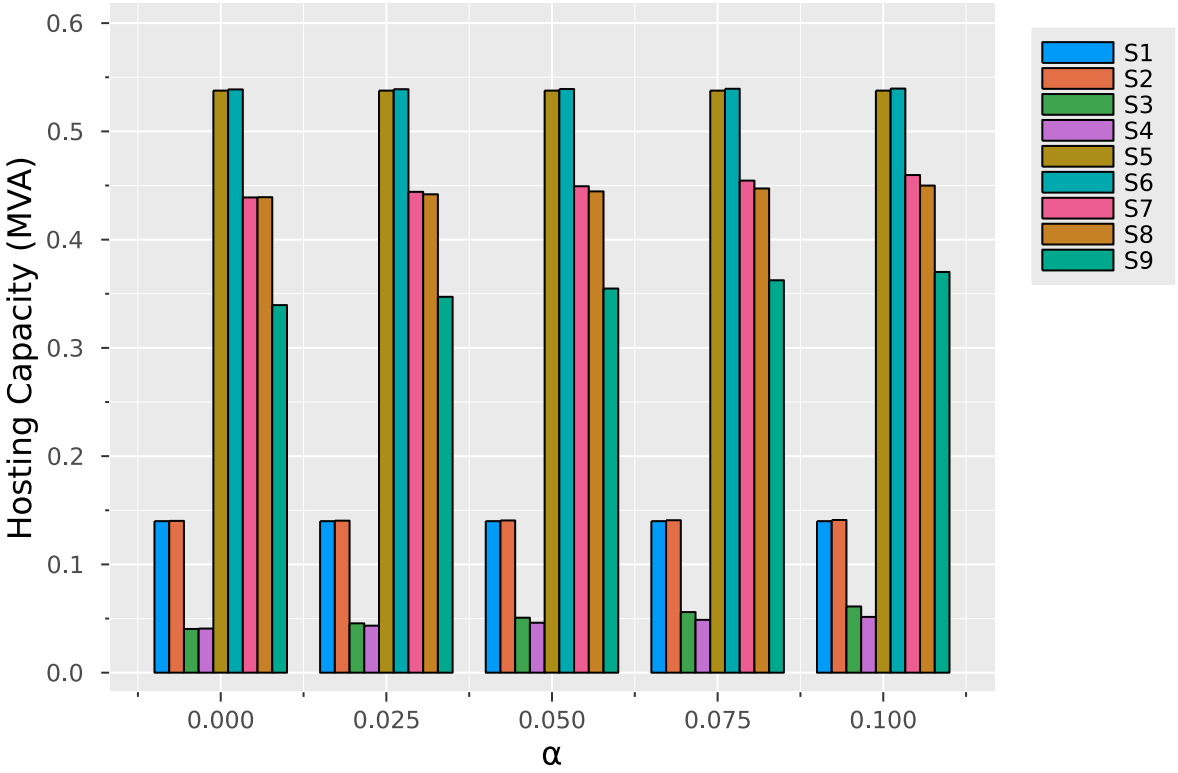




Estimation for only EV

```
data_ev = DataFrame(CSV.File("./results_ev.csv"));
```




Hosting Capacity (MVA)
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.000
0.025
0.050
0.075
0.100
α
S1
S2
S3
S4
S5
S6
S7
S8
S9