Bayesian Optimization Report

Generated on 22/10/2021 at 15:35:31

Configuration Data

experiment_name: hip_latticing

minimize: False model: GPEI num_of_iters: 20 num_sobol_steps: 5 num_of_params: 2 uniform_params: False

up_bound: None
lo_bound: None

parameters: [{'name': 'cell_size', 'type': 'range', 'bounds': [20.0, 40.0], 'value_type': 'float'}, {'name':

'lattice_thickness', 'type': 'range', 'bounds': [2.0, 6.0], 'value_type': 'float'}]

objective_metric: weight_savings

outcome_constraints: ['stress <= 40e9']</pre>

constraint_metrics: ['stress']

Optimisation Results

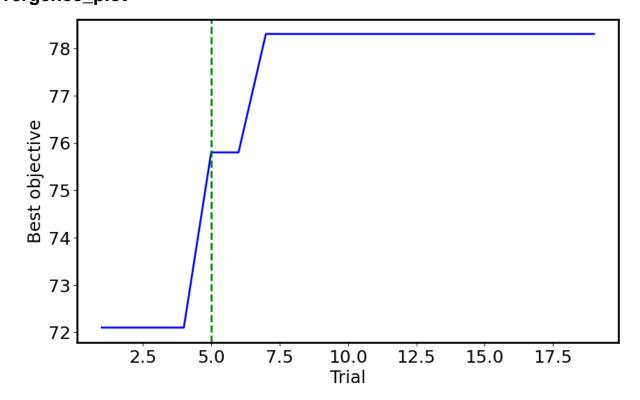
weight_savings: 78.2838640399951

stress: 0.6932608118298247

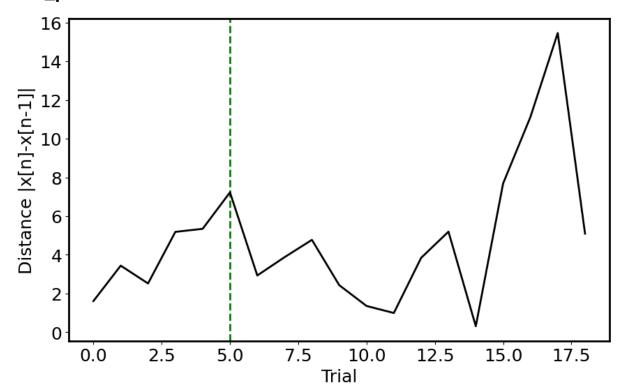
cell_size: 40.0

lattice_thickness: 2.0

Plots convergence_plot



distances_plot



evaluations_plot

