Problem

input dimension numofObj numofCon lowbound upbound check_input()

Generalizer

dim_limits

evaluation()

samples_x
sample_y
sample_constraint
surrogate
incorporate_new_sample()
get_next_sampling_location(
)

CAND

surrogate
sample_X
sample_Y
samples_con
candidate_sample_X
weight
Minimize_Merit()
Minimize_Merit_MO()
Minimize Merit MO CON()

ClimateModel

parameters
evaluationVariable
ModelPath
ObservationPath
run_model()
get_metrics()

NNRegression

learningtrate
hiddenlayersize
hiddenlayers
activation function
dimension
NumberOfOutput

init()
fit()
predict()

Optimization

problem
MaxIter
generalizer
x_new
y_new
con_new

LatinHyperSamples singleoptimization multioptimization constrainted optimization