node-0

<<actor>>
Shared_Data

attributes
all_evaluated_points : list
evaluation_constraint : inr
hyperspace_deployment_status : list
...

operations
create_hyperspaces(bounds, no_subspaces)
split_search_space(current_search_space, current_hs, new_hs)
...

node-1

<<actor>>
Hyperspace

attributes
prior : GPy.kernel
bounds : list
safe_threshold: float
safeopt_model : SafeOpt
objective_function : callable

operations
optimization_process (x, y, current_hs)
deploy_hyperspace (hyperspace_no)
...

Objective_Function

Takes the parameters to evaluate the objective function and returns the function value

node-2

<<actor>>
Hyperspace

attributes
prior : GPy.kernel
bounds : list
safe_threshold: float
safeopt_model : SafeOpt
objective_function : callable

operations
optimization_process (x, y, current_hs)
deploy_hyperspace (hyperspace_no)
...

Objective_Function

Takes the parameters to evaluate the objective function and returns the function value