Develop initial input-output database

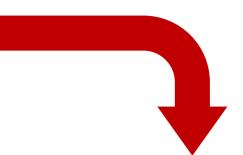
Perform Numerical Experiment using SMA Micromechanical Model

Find Optimal Material

Perform Numerical
Experiment using same SMA
Micromechanical Model

Machine Learning

Construct a Gaussian Process Regression Model Main iterative loop of framework



The inner iterative loop (red arrows) breaks once a material that satisfies all The objectives is found or the experimental budget is exhausted

Update Existing I/O database

Perform Numerical
Experiment using same SMA
Micromechanical Model

Selector

Select next material to test using the EHVI Acquisition function

