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Design Specification

Design parameters

Sampling

Topology

Value range

Constraints**Objectives****2**

FEA Data mining

FEA template model

Sampling

HPC batch jobs

100000 motor designs**3**

Deep ANN training

96600 FEA results set

K-fold cross check

Training

Deep regression ANN**4**

Optimization

Deep regression ANN

Convex optimization

Results**Objectives****Constraints**