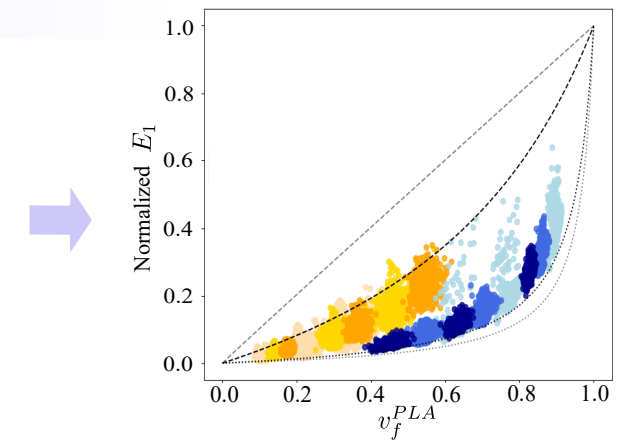
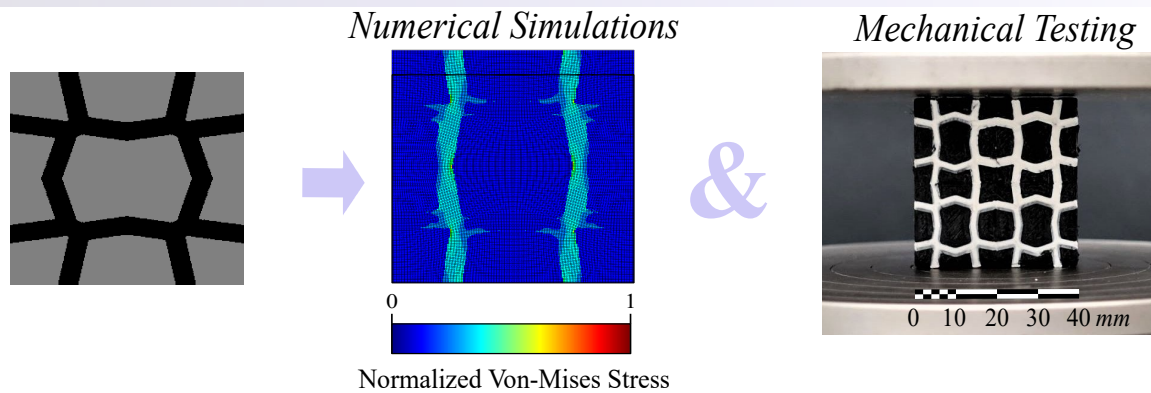


i) DATASET GENERATION VIA FORWARD-DESIGN APPROACH

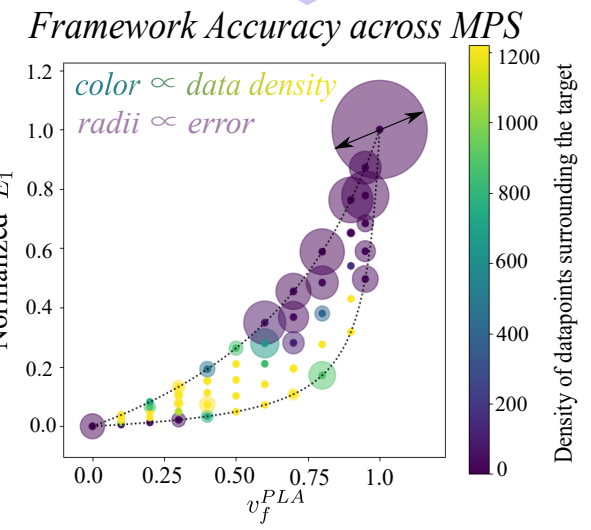
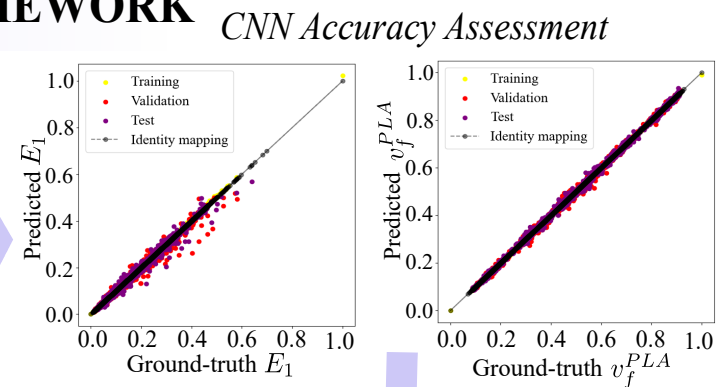
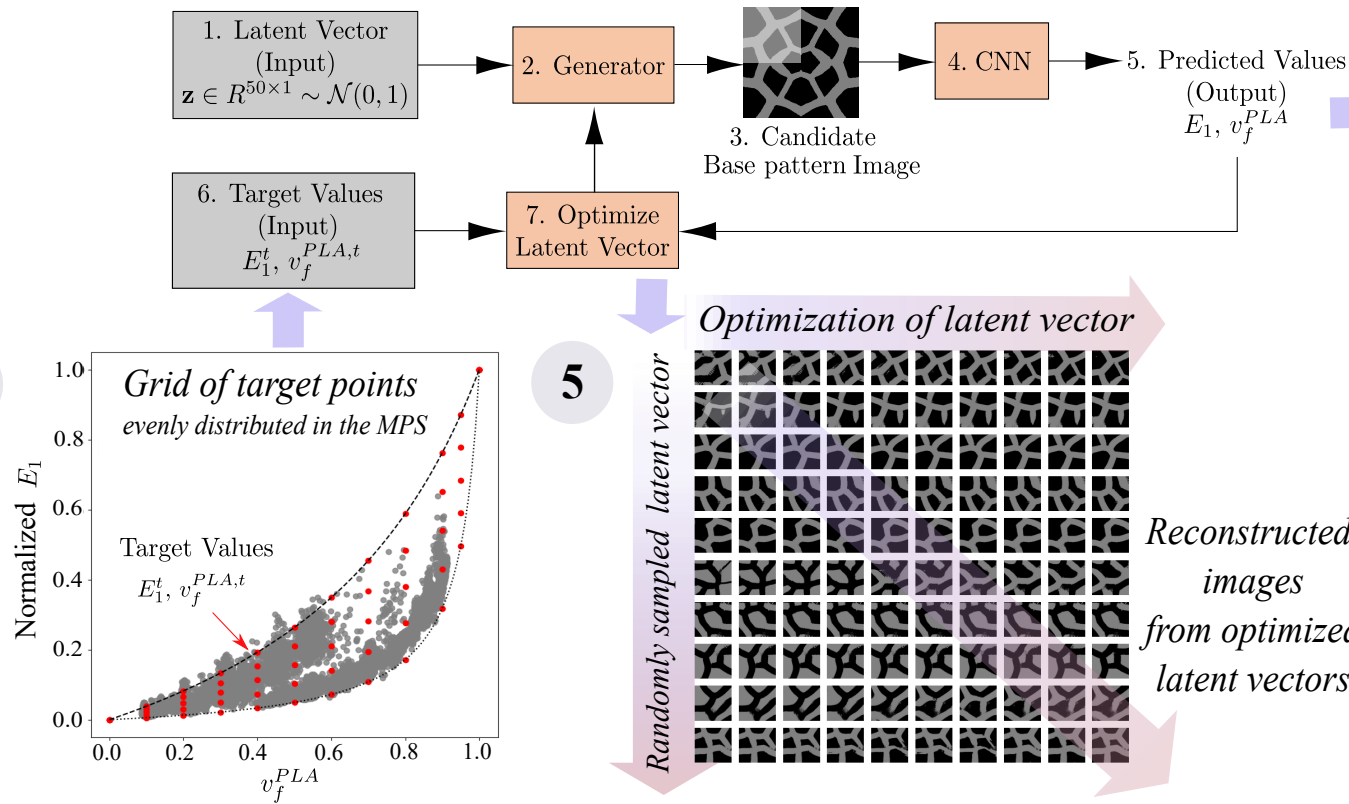


1 Bimaterial structures created with CAD Tools/ Algorithms

2 Ground-Truth Values e.g. Effective Elastic Properties

3 Material Property Space (MPS) defined by Hashin-Shtrikman bounds

ii) TARGETED PROPERTIES VIA DL-BASED INVERSE DESIGN FRAMEWORK



6

Reconstructed images from optimized latent vectors