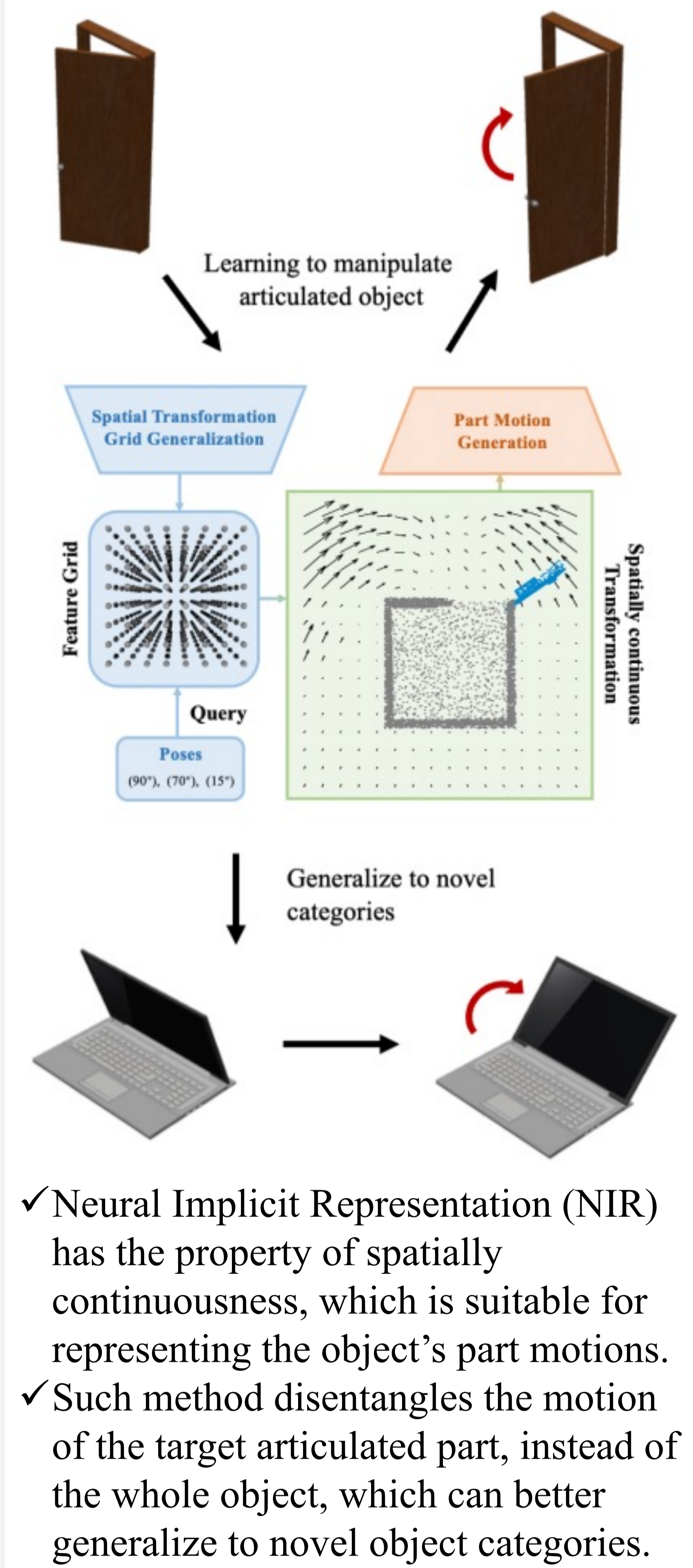


Motivation: Learn Part Motion Using NIR



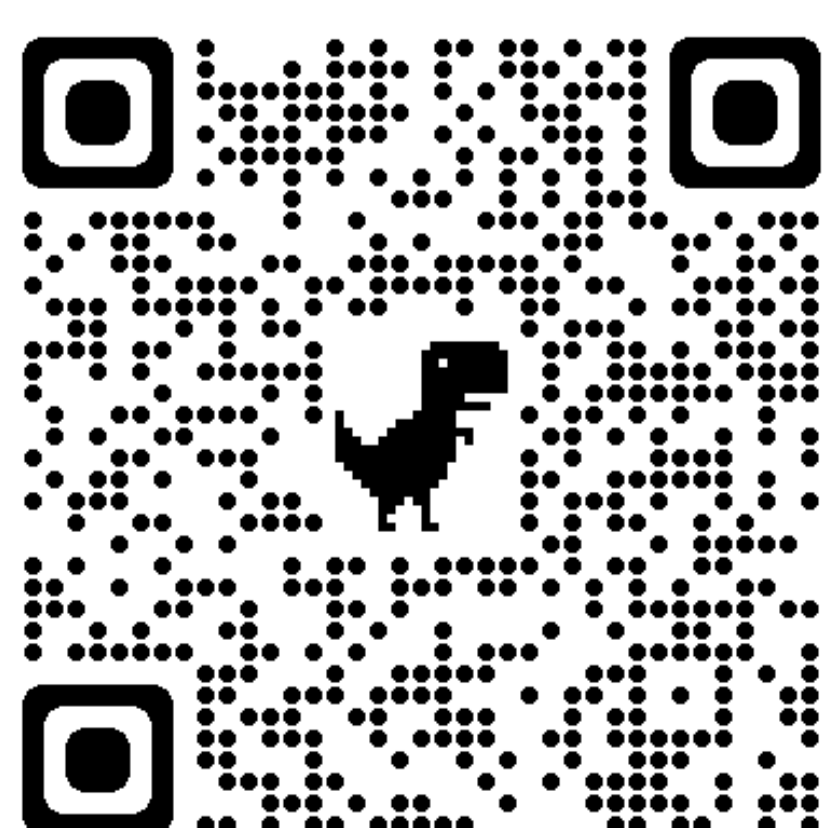
Contributions

- ✓ We propose a novel framework for modelling and generating articulated objects. To model the continuous articulations and motions smoothly, we adopt neural implicit representations (NIR) to predict the transformations of moving part points of the object.
- ✓ Experiments on diverse object categories, novel categories and multi-part objects, and visualization of transformation grids, interpolation and extrapolation demonstrate the superiority of our proposed framework.

Resources

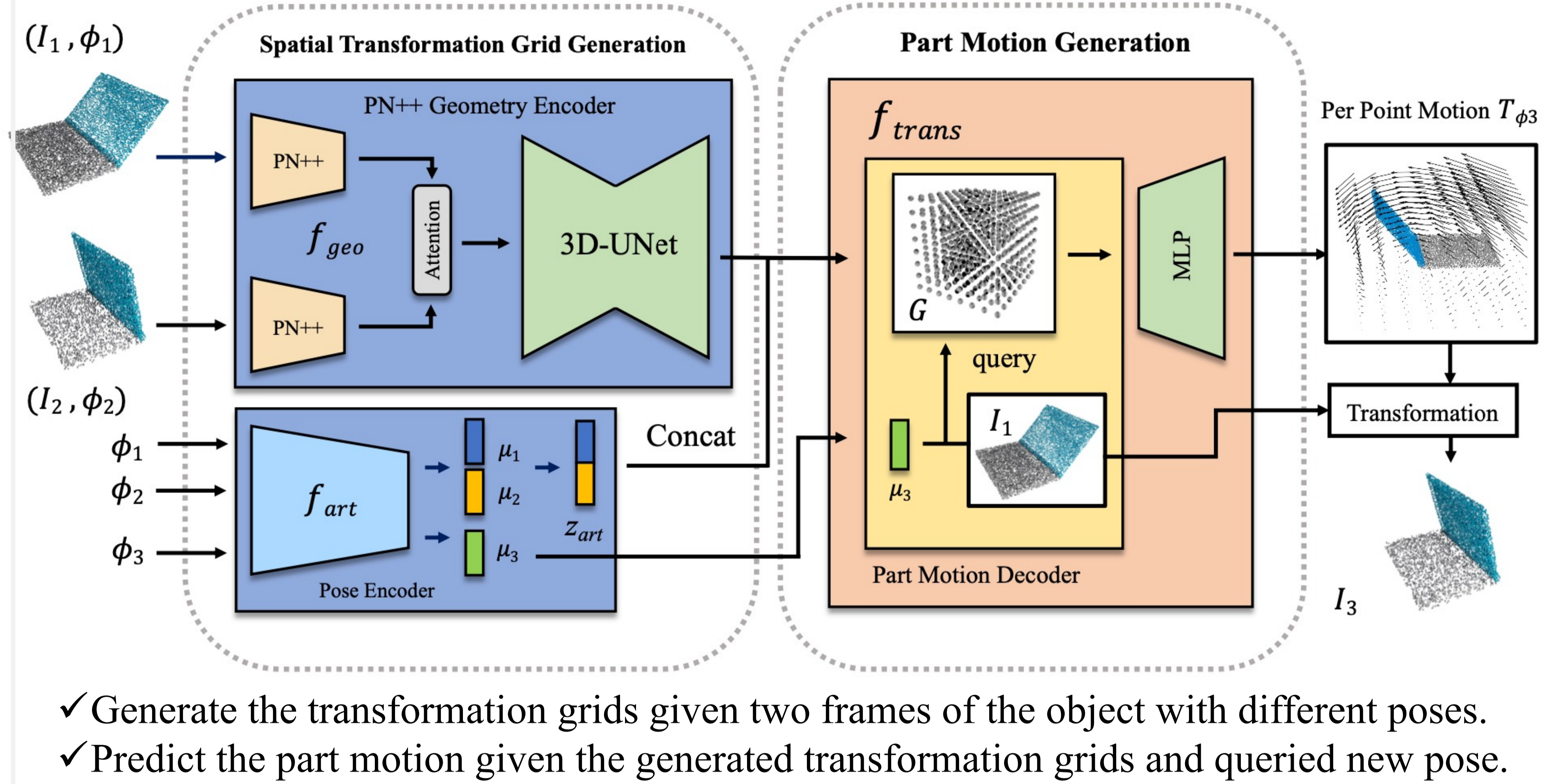


Website

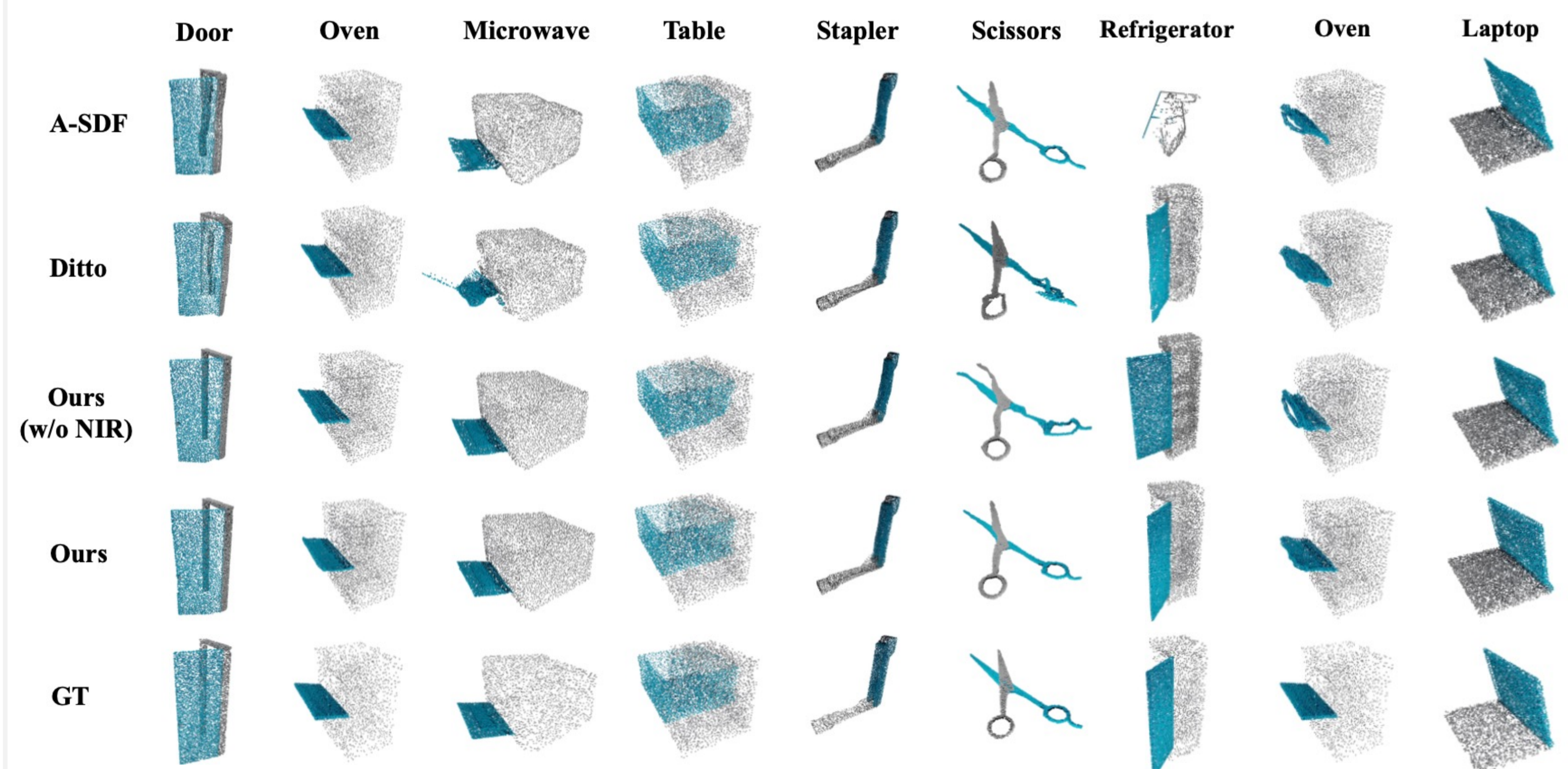


Code

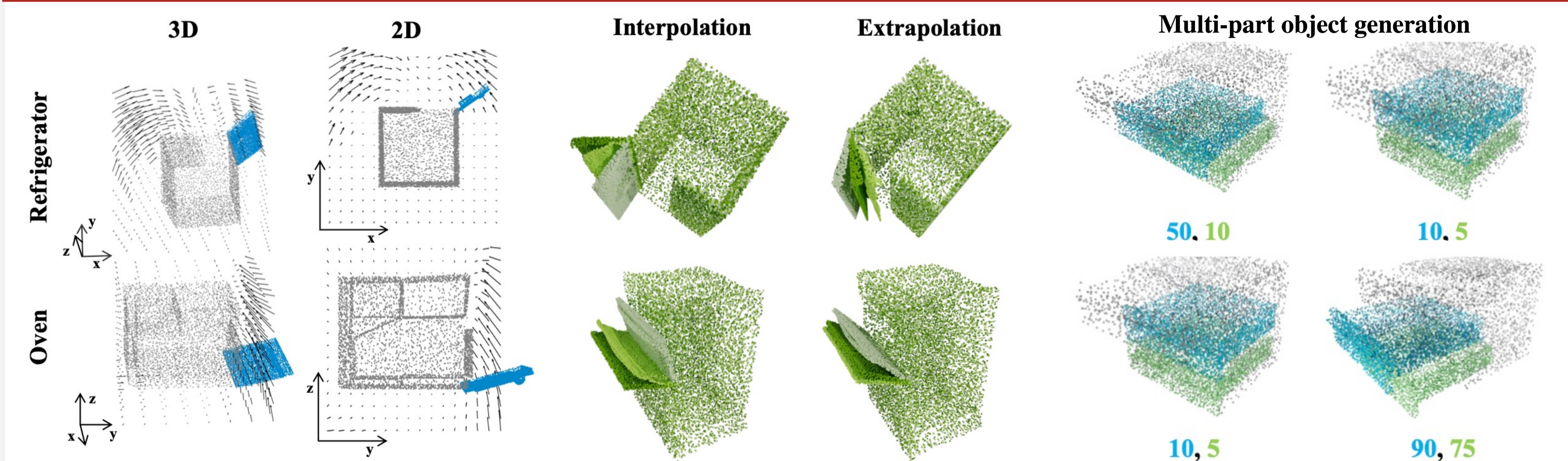
Overview of Proposed Framework



Visualization on Training (first 6) and Novel (last 3) Categories



Visualization of Transformation Grids, Interpolation, Extrapolation and Multi-part Objects



More Articulated Object Representation and Manipulation Works in Our Group

