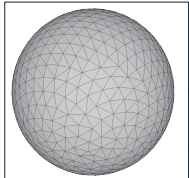
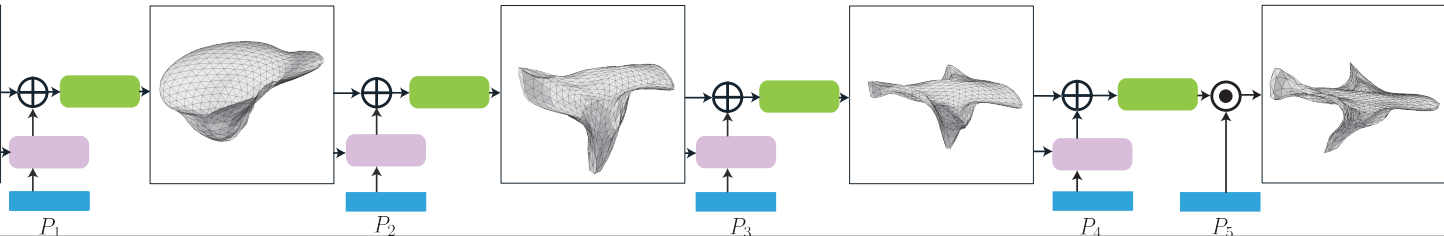


1024 vertices



Uniformly sampled from
parameter domain



Parameterization network

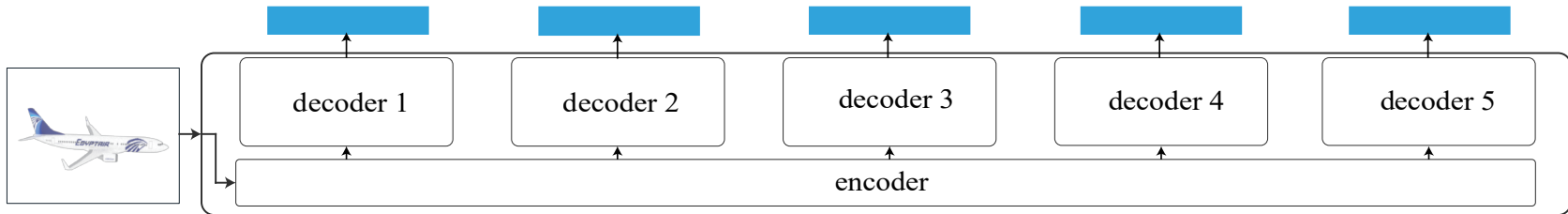
$$P_1 = \{w_{11}, w_{12}, w_{13}, b_{13}, w_{14}, b_{14}\}$$

$$P_2 = \{w_{21}, w_{22}, w_{23}, b_{23}, w_{24}, b_{24}\}$$

$$P_3 = \{w_{31}, w_{32}, w_{33}, b_{33}, w_{34}, b_{34}\}$$

$$P_4 = \{w_{41}, w_{42}, w_{43}, b_{43}, w_{44}, b_{44}\}$$

$$P_5 = \{s_5\}$$



Semantic network

K-neighbor PointNet data tensor Laplacian smooth \oplus addition \odot element multiply