Method - Generalizable Shape Network

We approximate the object's occupancy $\sigma(x) \approx \sigma_S(x) := f_{\theta}(x \mid S)$ where f_{θ} is a neural network given shape parameters.

$$S \xrightarrow{\{P_i\}_i} f_{\phi_m}^{m} \xrightarrow{\{p_i^S\}_i} p_i^S := f_{\phi_m}^{m}(P_i \mid S)$$

$$p_i^S \text{ represents part } i \text{ with some global information through self-attention}$$

$$p_i^S := f_{\phi_m}^m(P_i \mid S)$$

some global information through self-attention



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