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.

$$S \xrightarrow{\{P_i\}_i} f_{\phi_m}^m \xrightarrow{\{p_i^S\}_i} f_{\phi_x}^x \xrightarrow{\{q_i^S(x)\}_i} f_{\phi_o}^o \xrightarrow{\chi} \sigma_S(x)$$

$$\xrightarrow{\chi} \text{query}$$

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