

General Function

$$f: \mathcal{D}_1 \dots \mathcal{D}_M \rightarrow \mathcal{D}_O$$

Distance Function Class

$$\hat{\delta}: \mathcal{D}_q \times \mathcal{D}_q \times \mathcal{D}_1 \dots \mathcal{D}_N \rightarrow \mathbb{R}$$

Logical Implementation

$$\delta: \mathcal{D}_q \rightarrow \mathbb{R}$$

Query Context

Physical Implementation

Scalar

Vectorized

GPU