Metric learning novel task generalization

$\theta(P_0)$ $\theta(P_1)$ $\theta(P_2)$ $\theta(P_3)$

$\hat{\theta}_S(x) : x \sim P_0$

$\hat{\theta}_S(x) : x \sim P_1$

$\hat{\theta}_S(x) : x \sim P_2$

$\hat{\theta}_S(x) : x \sim P_3$ (novel)