**1.** $X_0$

Transform Binary Code to Image

**2.** $X_0$

Original Feature Space

**3.** $Z_0 = f_\Theta(X_0)$

$f_\Theta$    $f_\Theta$

$Z_i = f_\Theta(X_i)$

$f_\Theta$

Latent Feature Space

**4.** ?

Pairwise map to s-space

**5.** Similarity    Dissimilarity

(Dis)similarity output

**6.** Goodware

KNN-based similarity

**Legend**

s-vector

marker

malware

goodware

latent feature vector

Malware-SMELL