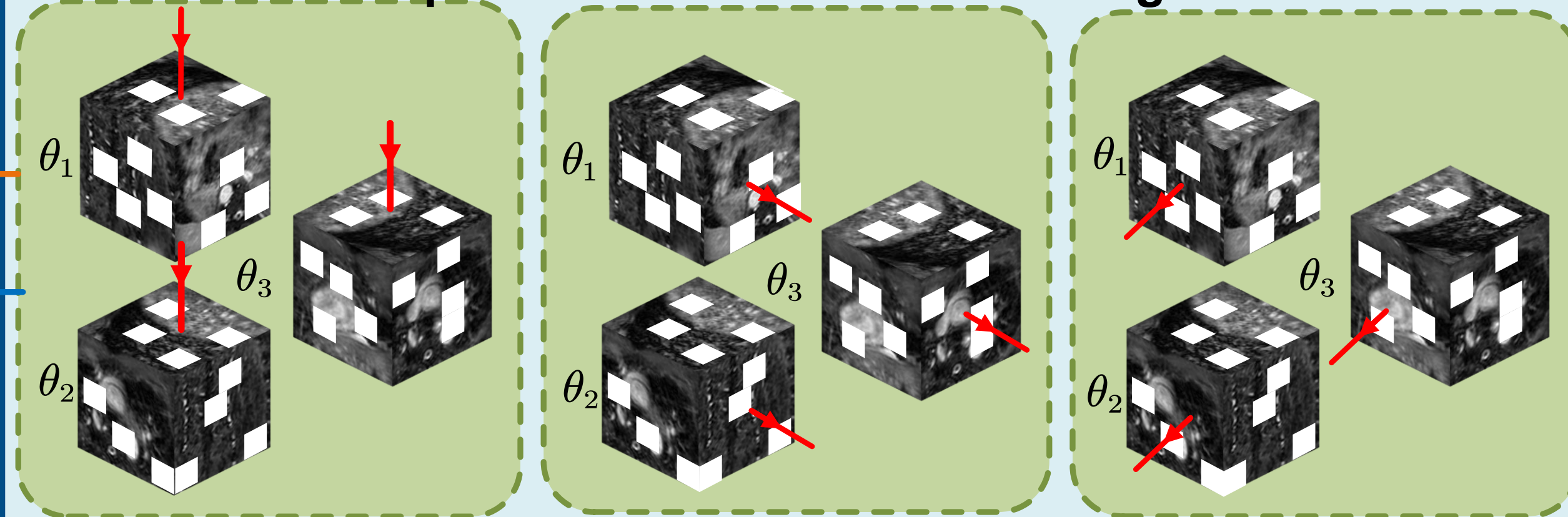


CSAL-Adapted Self-Supervised Learning Framework

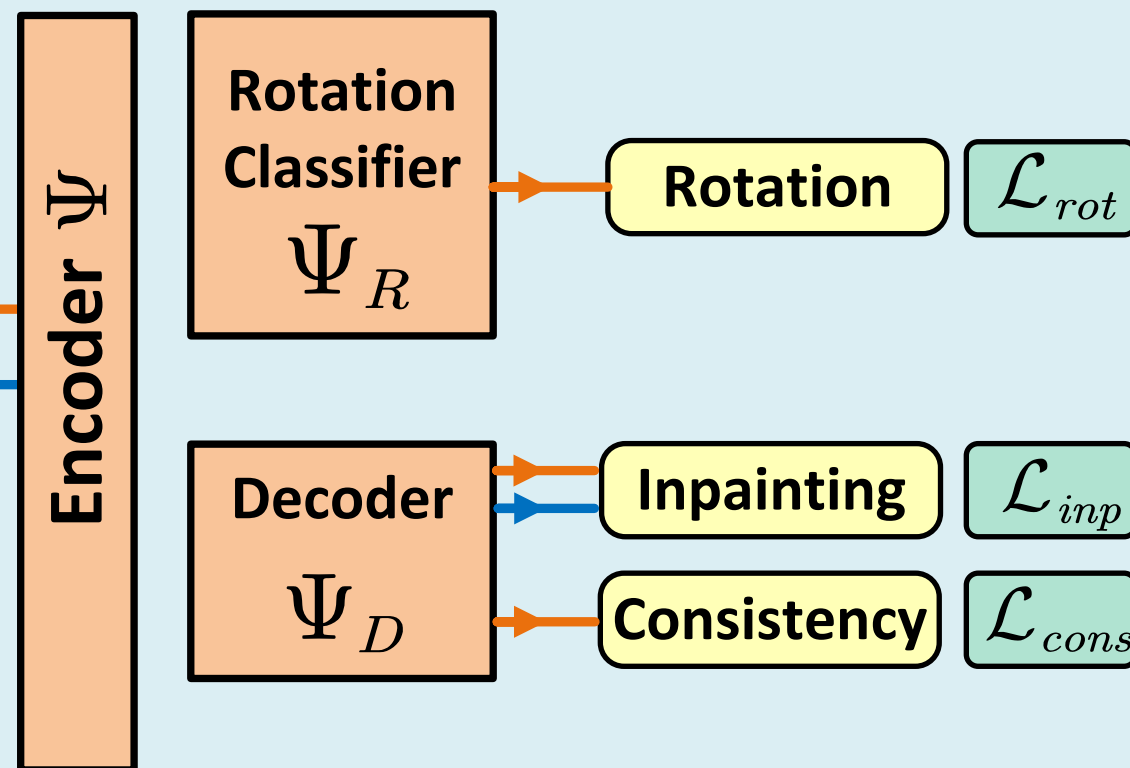
Masked samples from different rotation angles and views



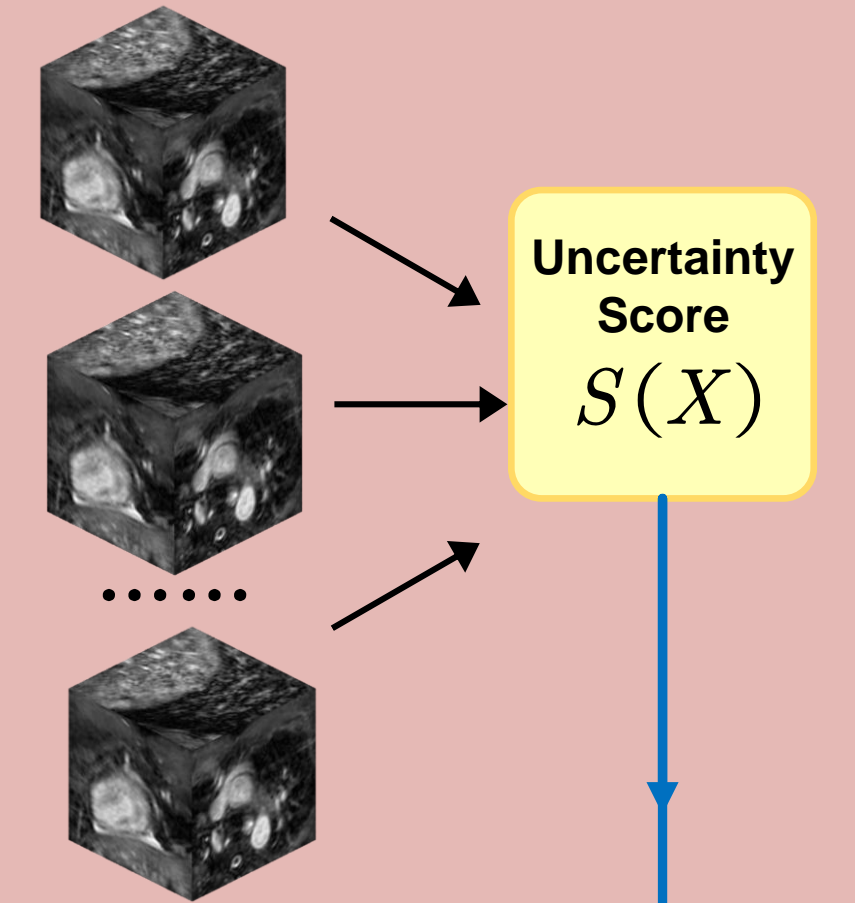
Coronal View

Sagittal View

Axial View



Ensemble-based Uncertainty Estimation



Uncertainty-Reinforced Diversity Sampling

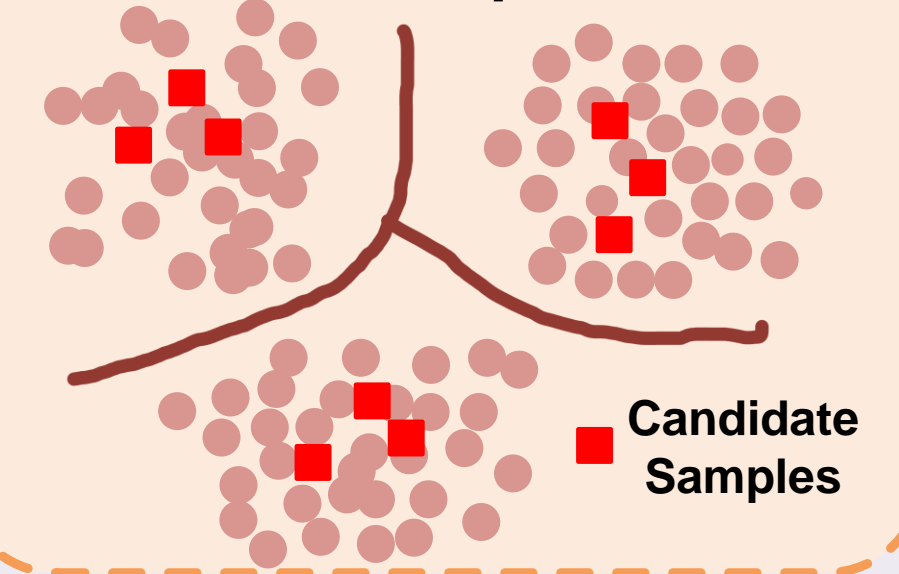
Feature Banks

z_1
 z_2
 z_3

 z_N

Multiple Kernel
 k -means
 Clustering

Typicality-gated Diverse
 Candidate Sample Selection



Candidate
 Samples

Uncertainty-guided Final
 Sample Selection



Selected
 Samples

Uncertainty Sorting

High Low

Query for Labels

Data Pools

Encoder Ψ

SSL Training Workflow

Sample Selection Workflow