



Image Analysis and Computer Vision Laboratory

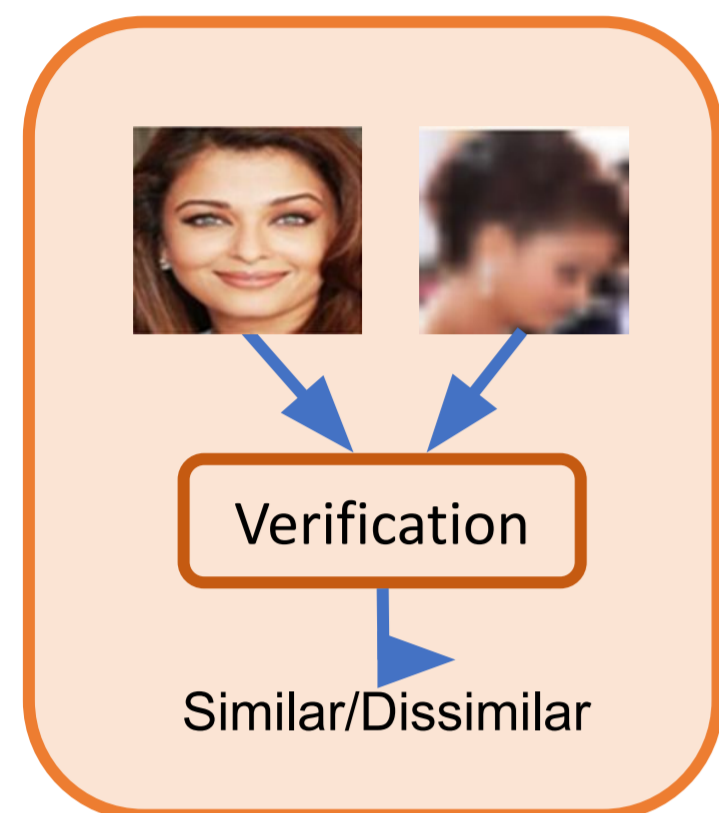
Faculty: Prof. Soma Biswas

Room No. C-314

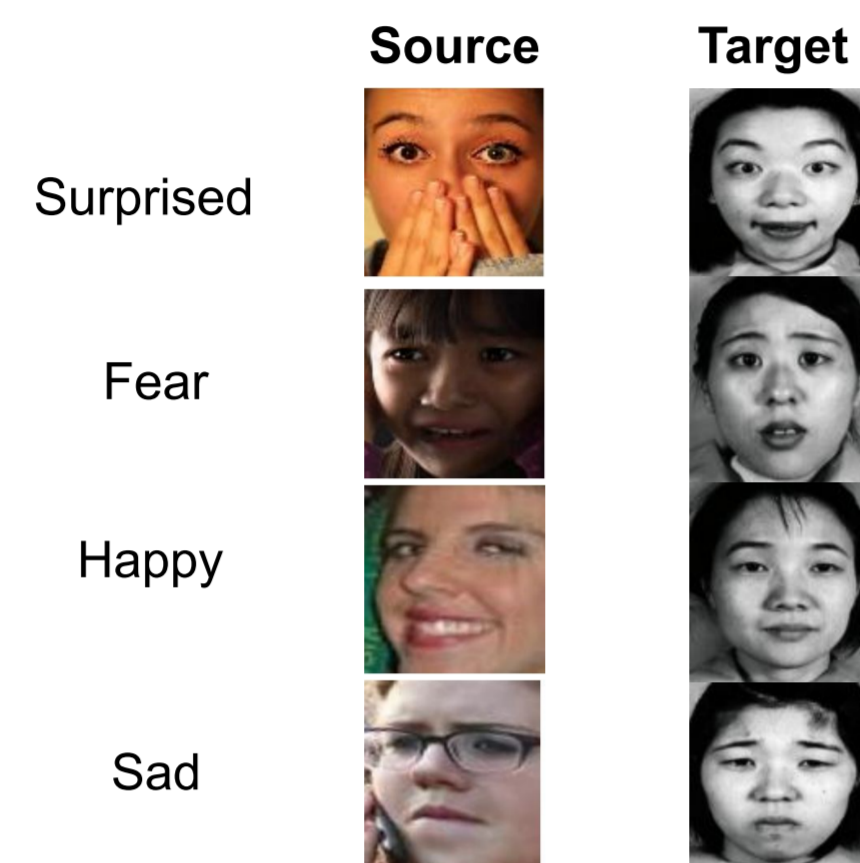
Department of Electrical Engineering
Indian Institute of Science, Bangalore

Face and Expression Recognition

Goal: Low Resolution Face Verification



Goal: Cross-Domain Facial Expression Recognition



About us...

We work on a variety of exciting Computer Vision problems like

- Cross-Domain or Cross-Modal Matching and retrieval
- Domain Adaptation and Domain Generalization
- Novelty Detection and Zero-Shot Learning
- Class-Incremental Learning
- Test-Time Adaptation

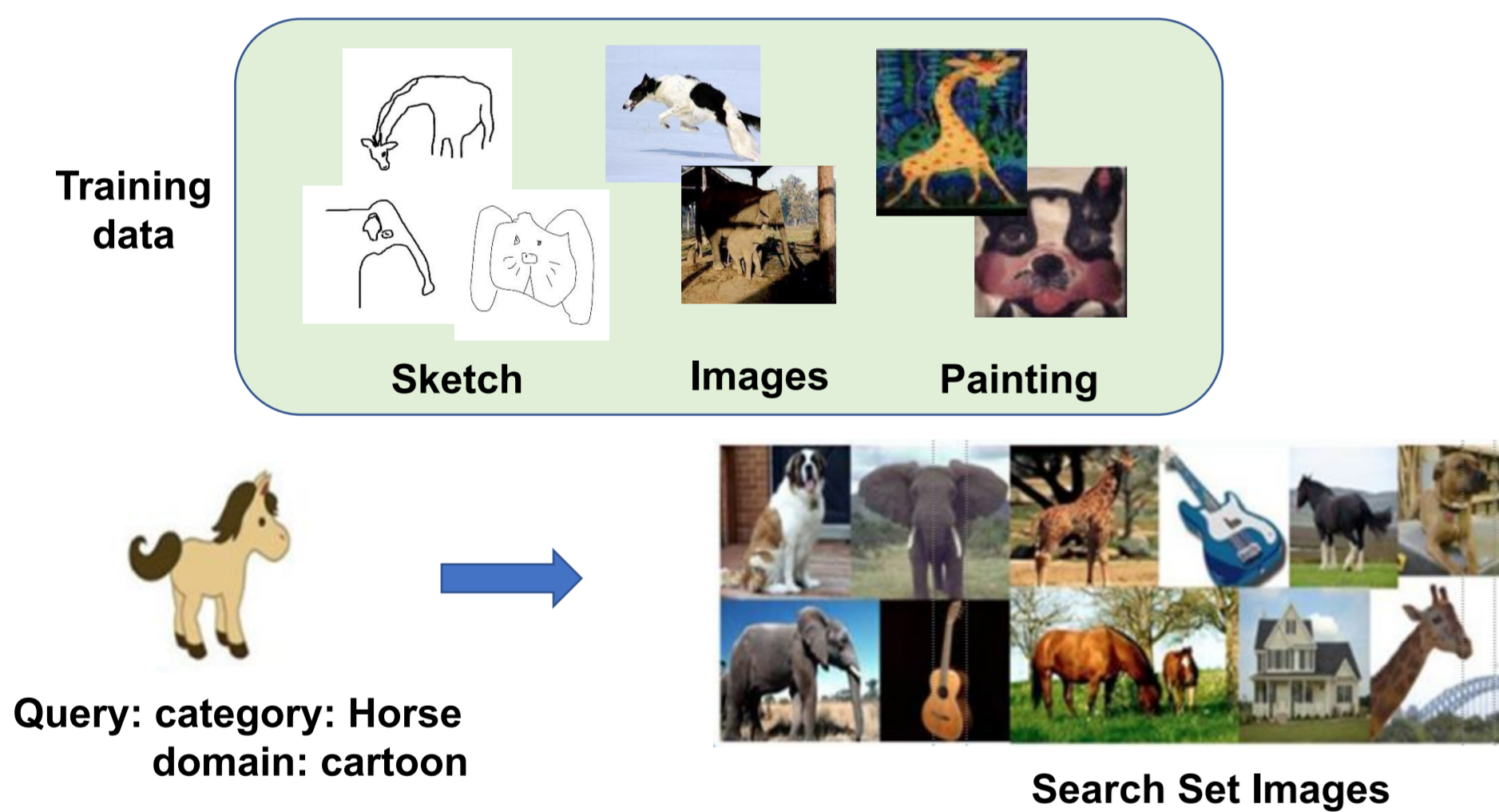
Zero-Shot Domain Generalization

Goal: Classify unseen classes from unseen domains



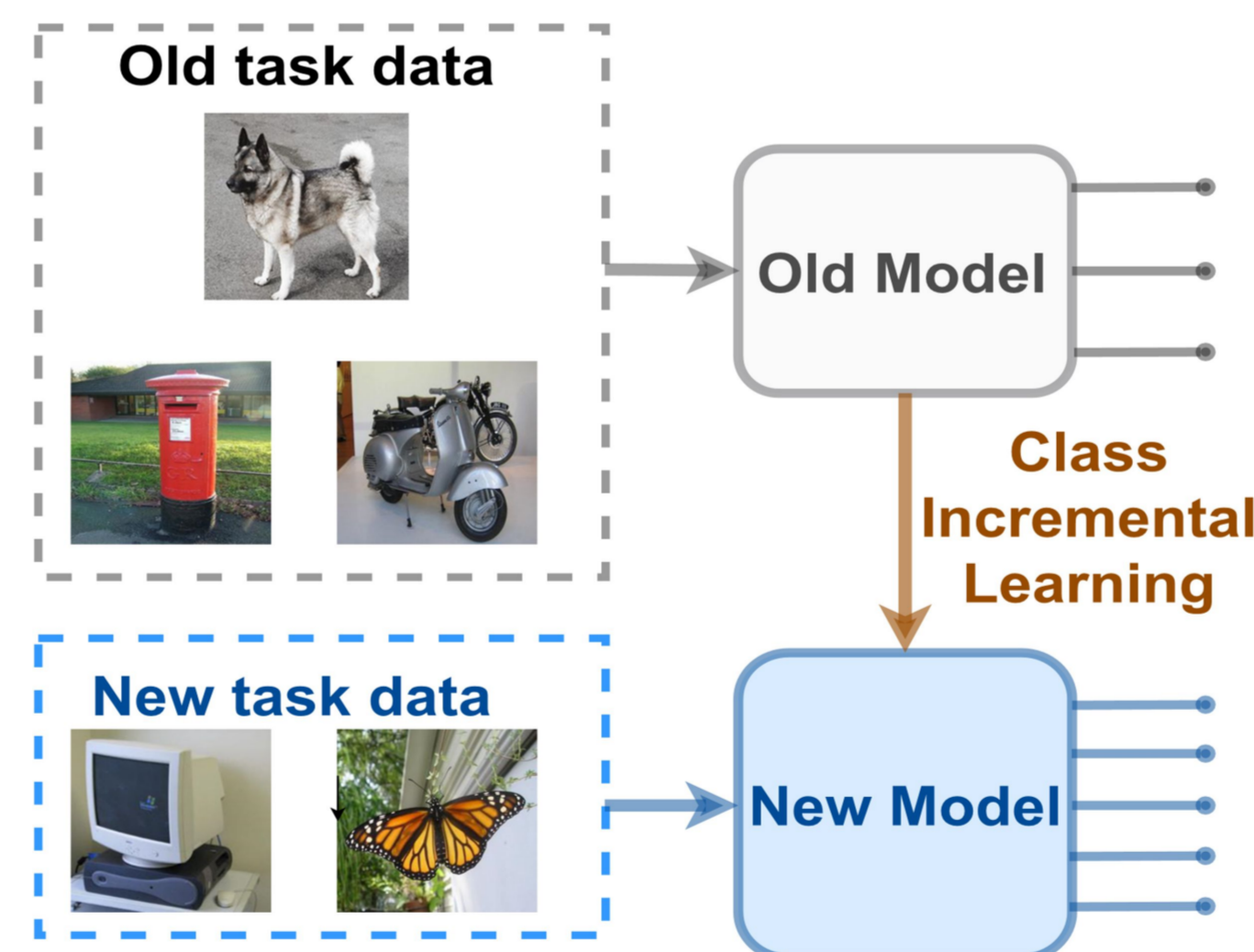
Universal Cross-Domain Retrieval

Goal: Query and Search images can contain seen/unseen classes



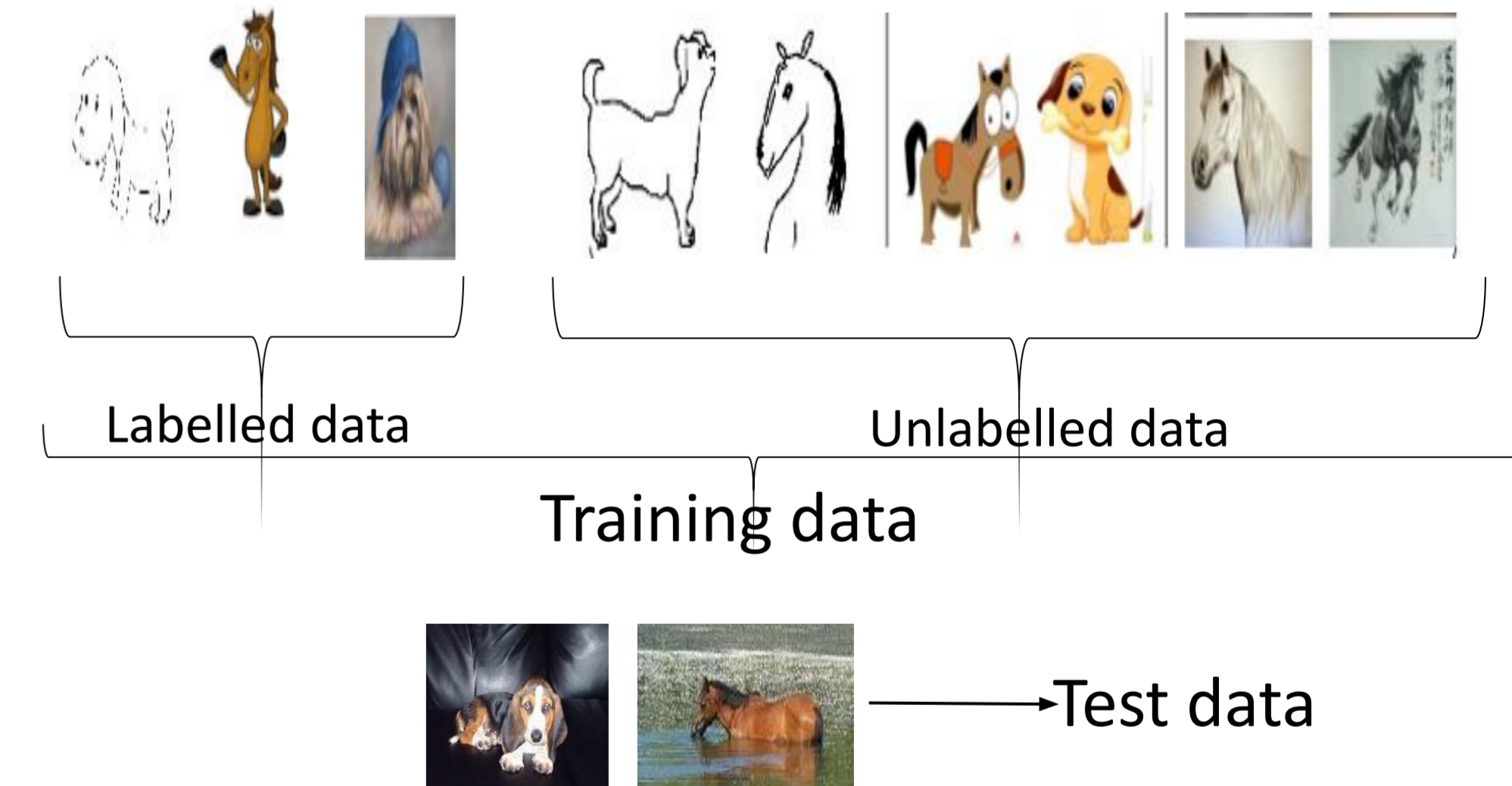
Class-Incremental Learning

Goal: Learn to recognize new classes as they arrive



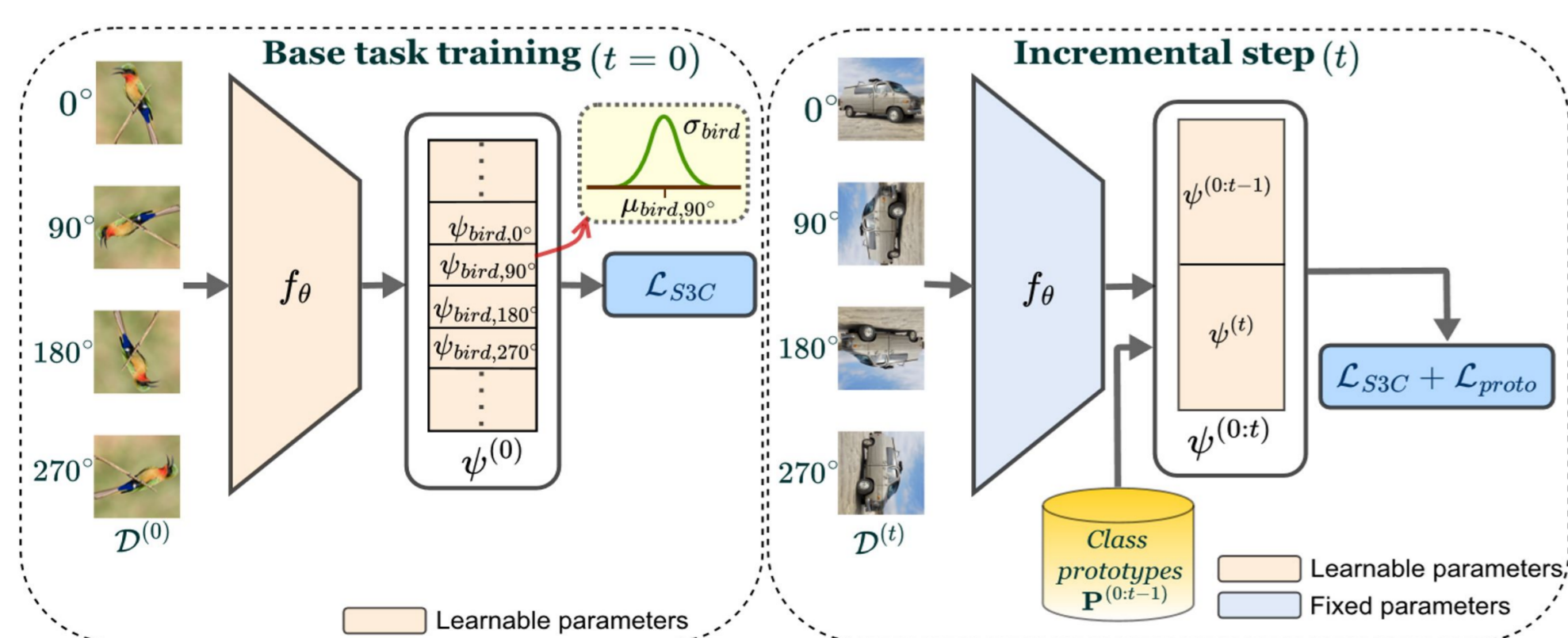
Semi-Supervised Domain Generalization

Goal: Using semi-supervised multi domain data for generalization



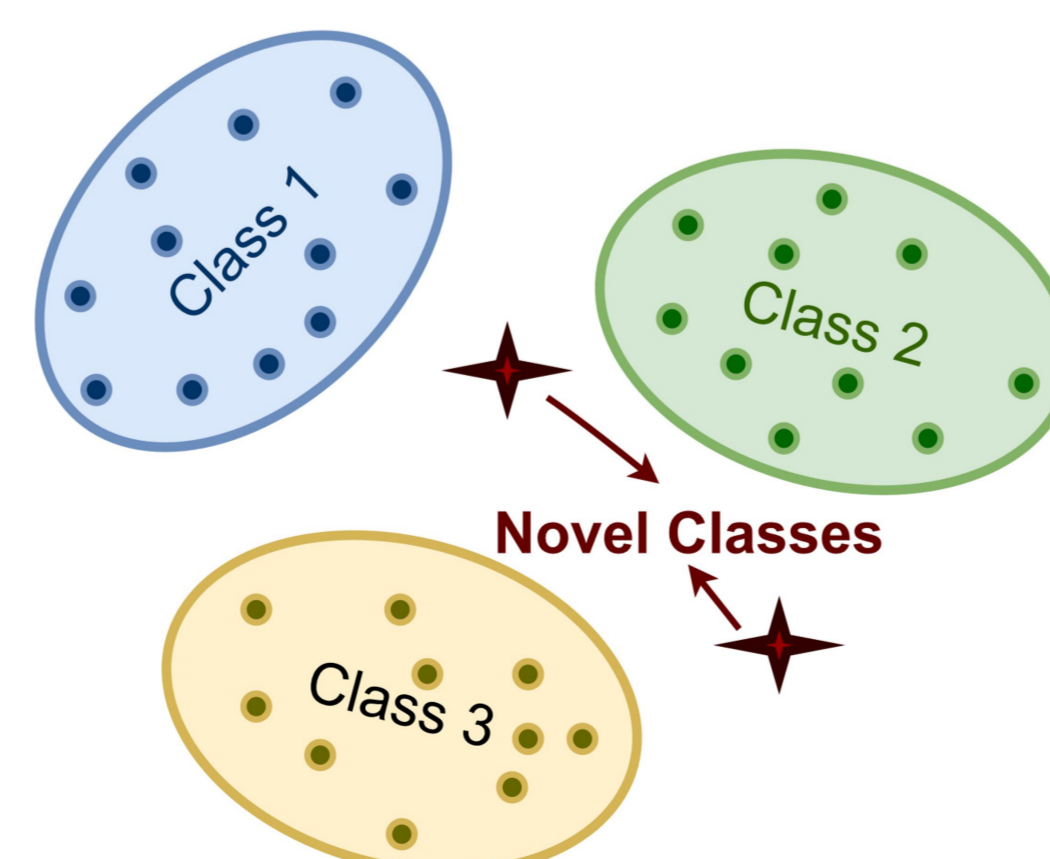
Few-Shot Class-Incremental Learning

Goal: Learning new classes with few number of samples



Novelty Detection

Goal: Identifying novel classes at test time



Test-Time Adaptation

Goal: Model adaptation using online test data

