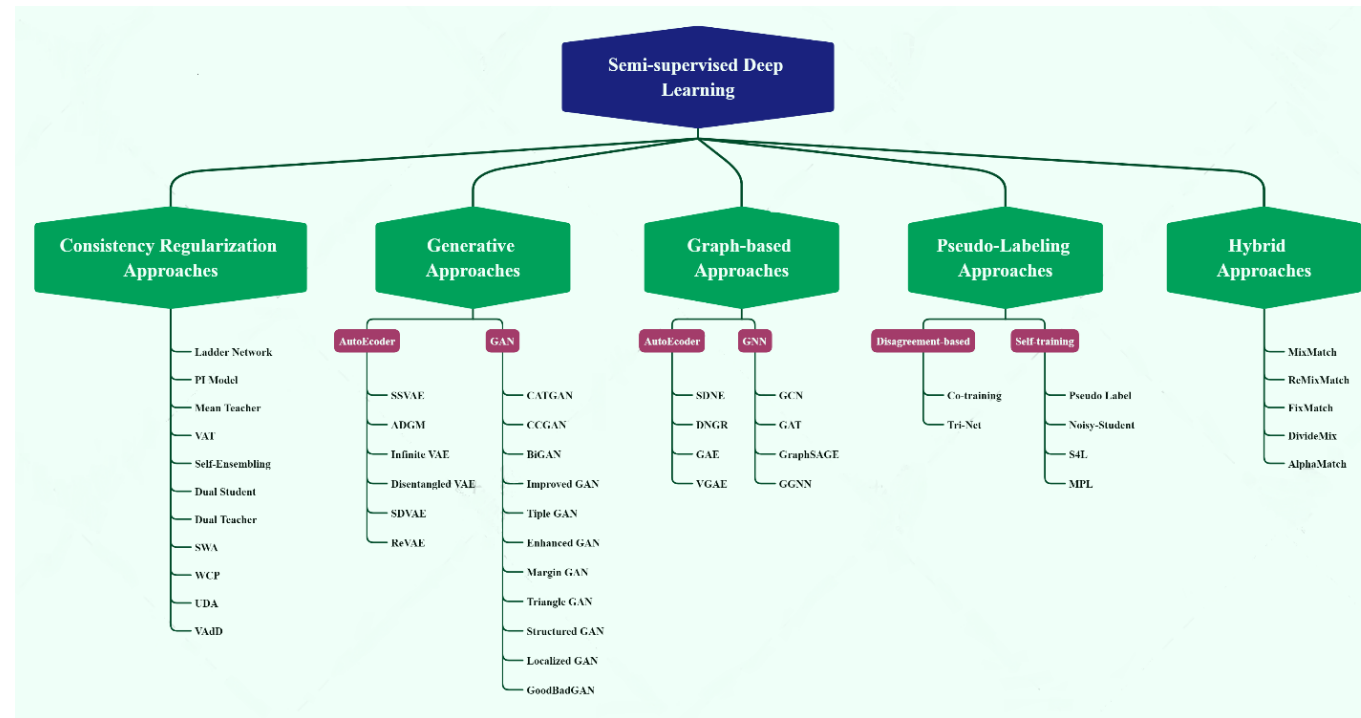
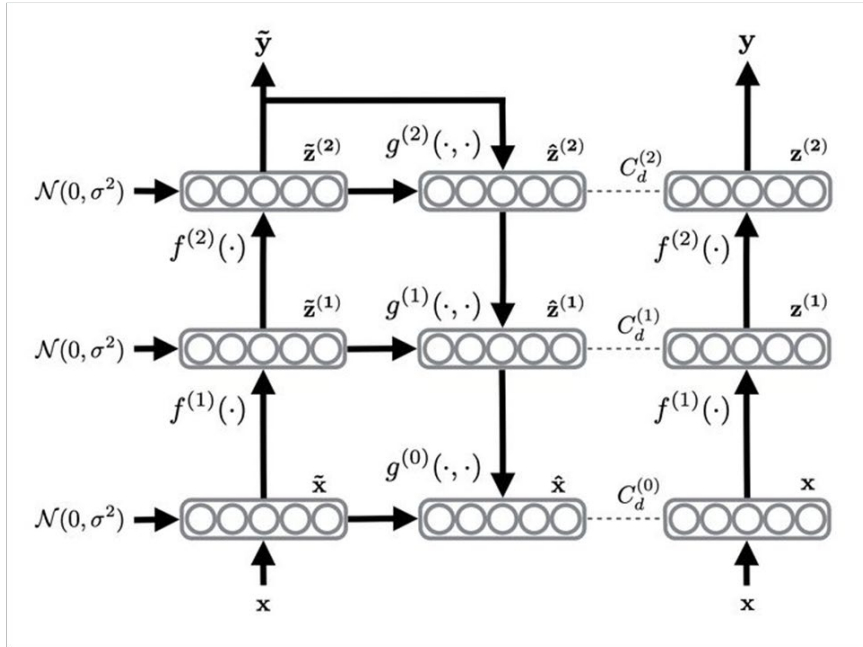


CHAPTER 7

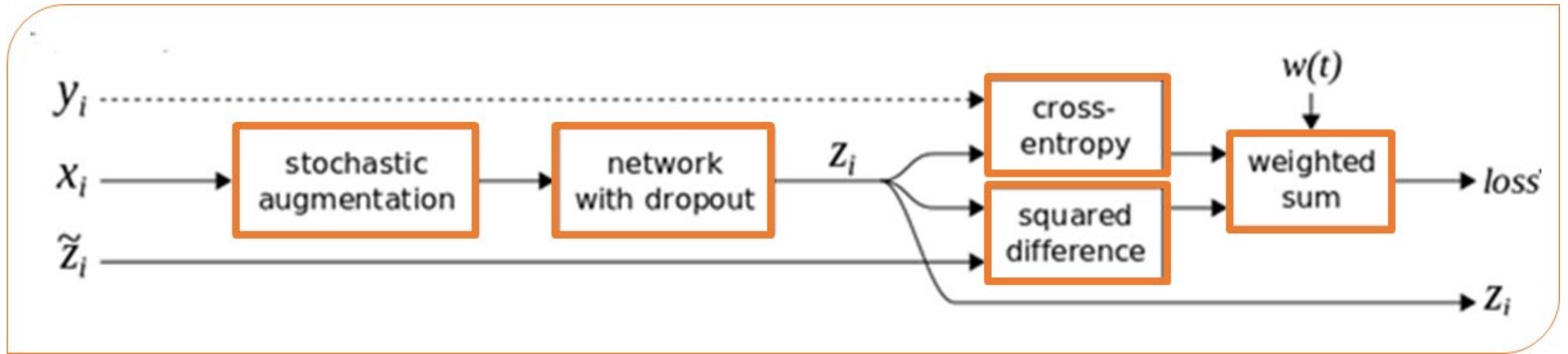
Semi-supervised Deep Learning for Secure Internet of Things



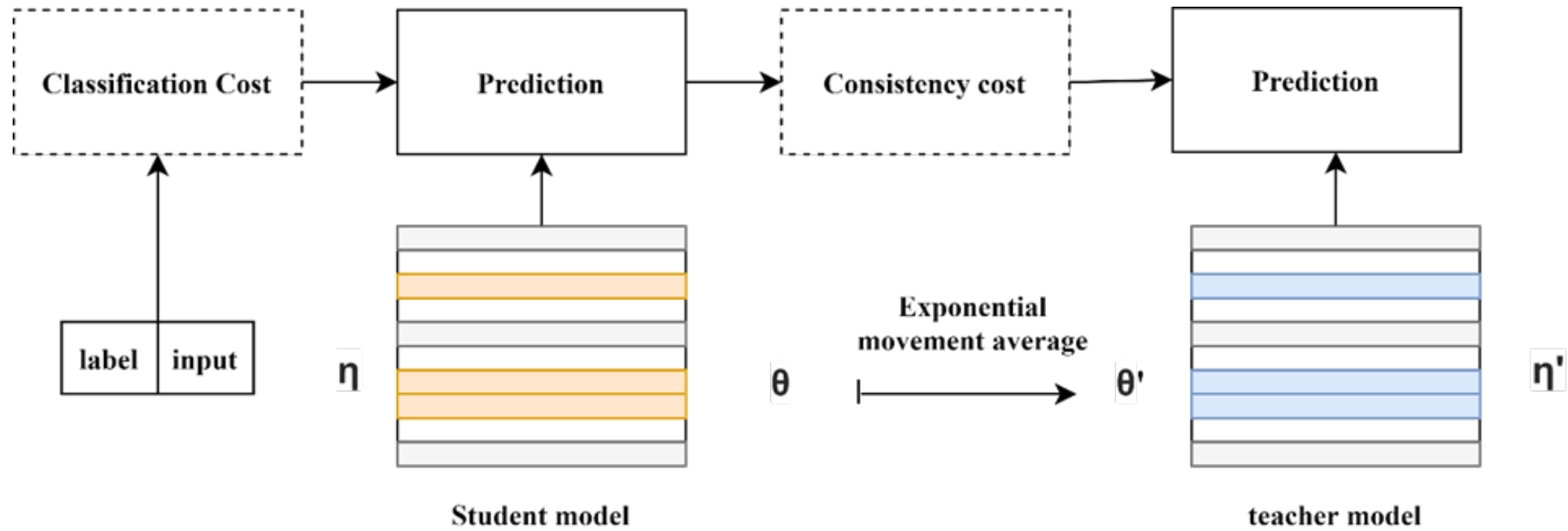
BACKGROUND AND FOUNDATIONS



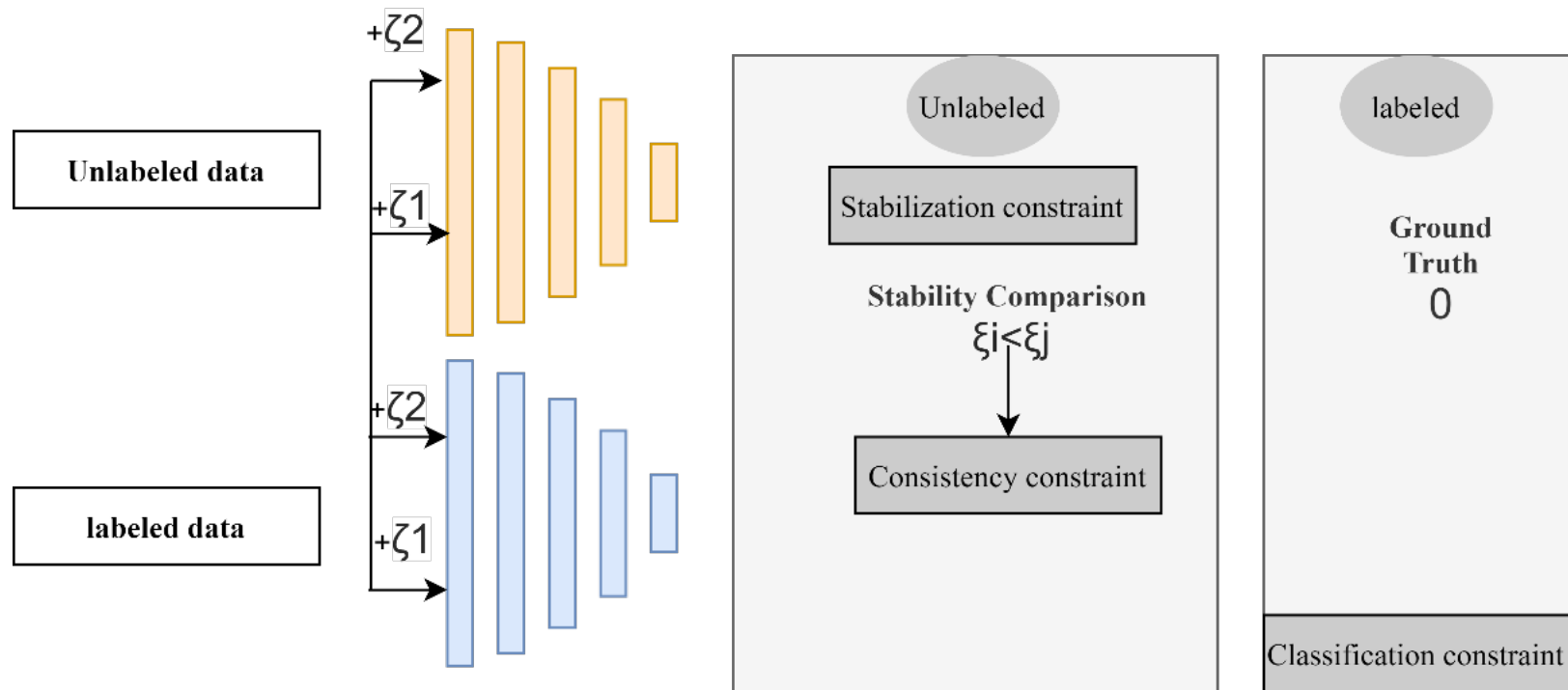
CONSISTENCY REGULARIZATION APPROACHES



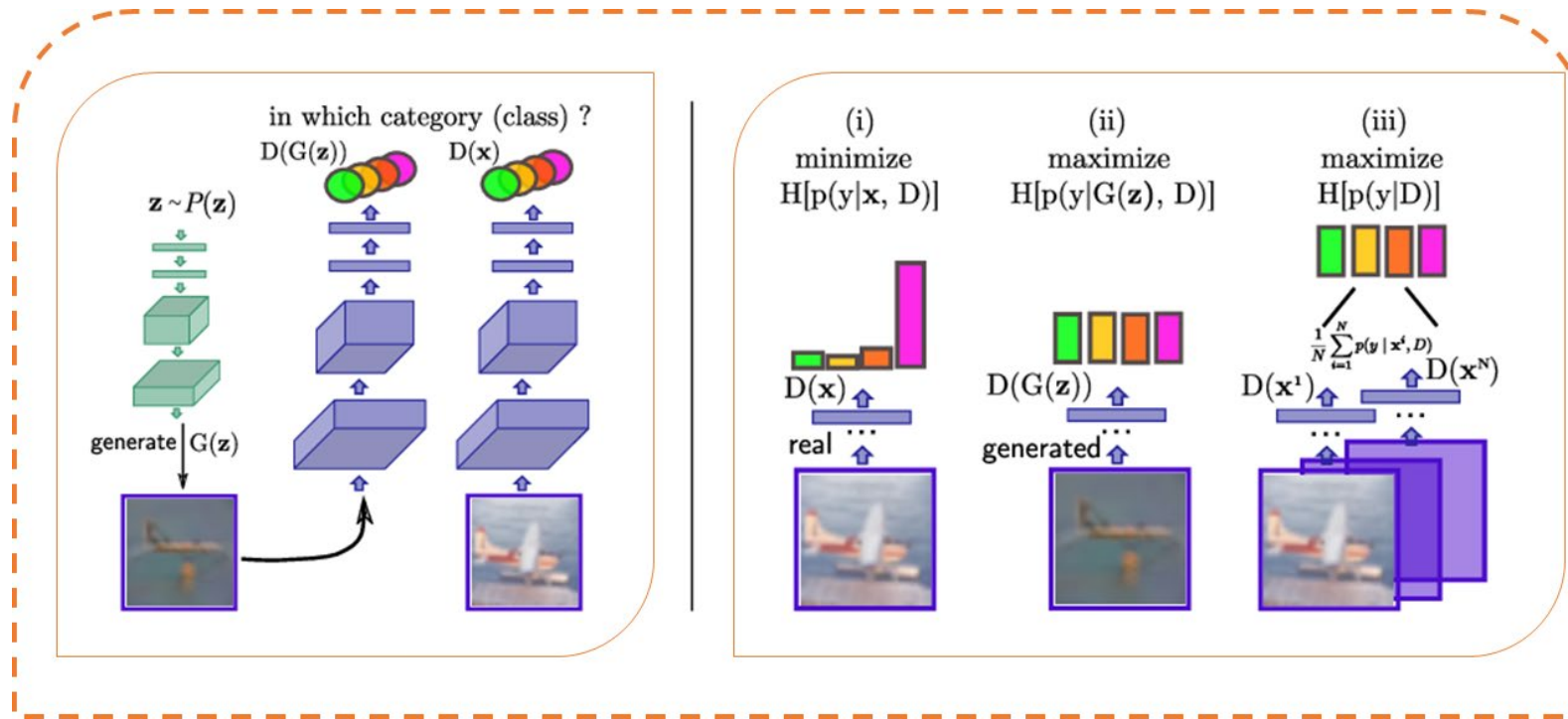
CONSISTENCY REGULARIZATION APPROACHES



CONSISTENCY REGULARIZATION APPROACHES



CONSISTENCY REGULARIZATION APPROACHES



SEMI-SUPERVISED GENERATIVE APPROACHES

SEMI- SUPERVISED AUTOENCODER APPROACHES

Semi-supervised VAEs
(SSVAEs)

Infinite VAE

Disentangled variational
autoencoder

**SEMI-
SUPERVISED
GRAPH-BASED
APPROACHES**

Baseline GNN

Graph Convolutional
Network (GCN)

Graph Attention Network
(GAT)

PSEUDO- LABELING APPROACHES

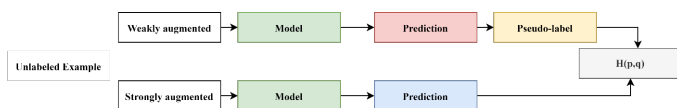
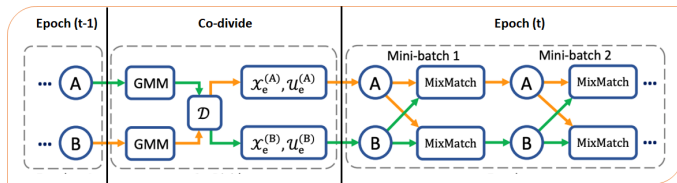
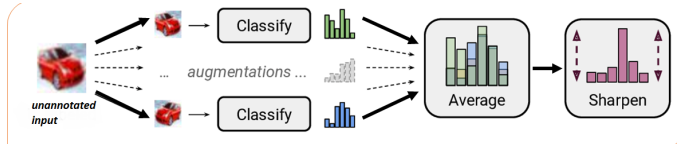


**DISAGREEMENT-
CENTERED METHODS**



**SELF-TRAINING
METHODS**

HYBRID APPROACHES



- Interpolation Consistency Training
- MixMatch
- ReMixMatch
- DivideMix
- FixMatch