Preliminary Work

MAML (Model-Agnostic Meta-learning)

- Proposed at ICML'17
- MAML is a representative algorithm of gradient-based meta-learning approaches.

Preliminary Work MAML

MAML

 $\hat{\theta}^n$: model learned from task n $\hat{\theta}^n$ depends on ϕ

Loss Function:

$$L(\boldsymbol{\phi}) = \sum_{n=1}^{N} l^n(\hat{\boldsymbol{\theta}}^n)$$

 $l^n(\hat{\theta}^n)$: loss of task n on the testing set of task n



