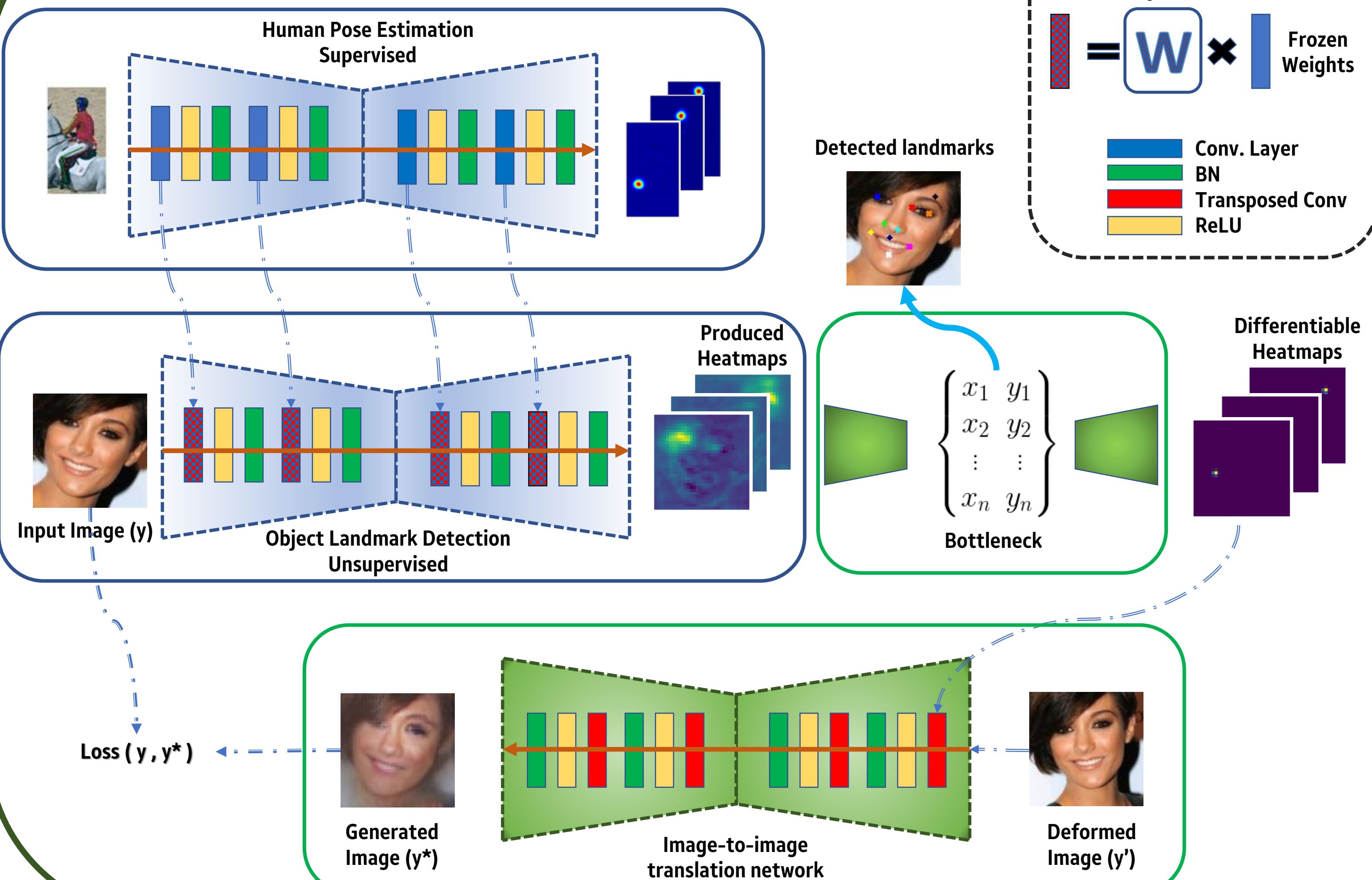


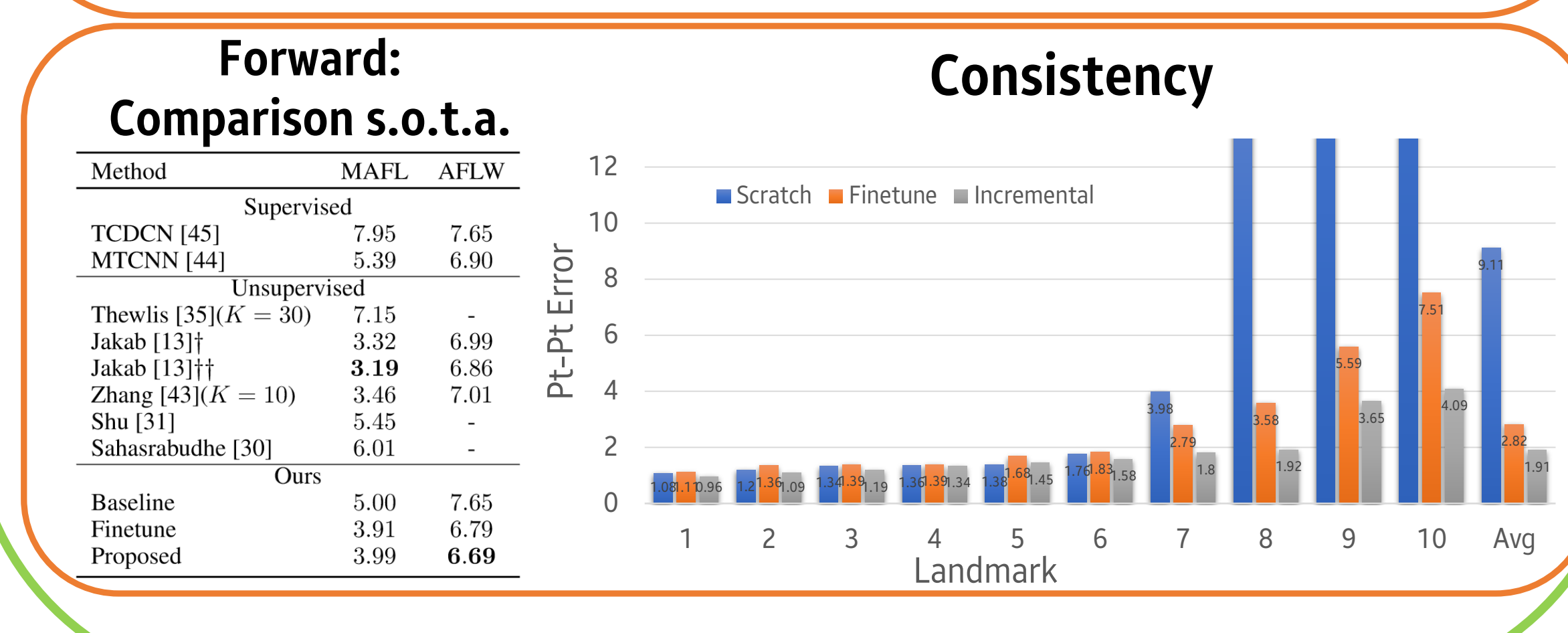
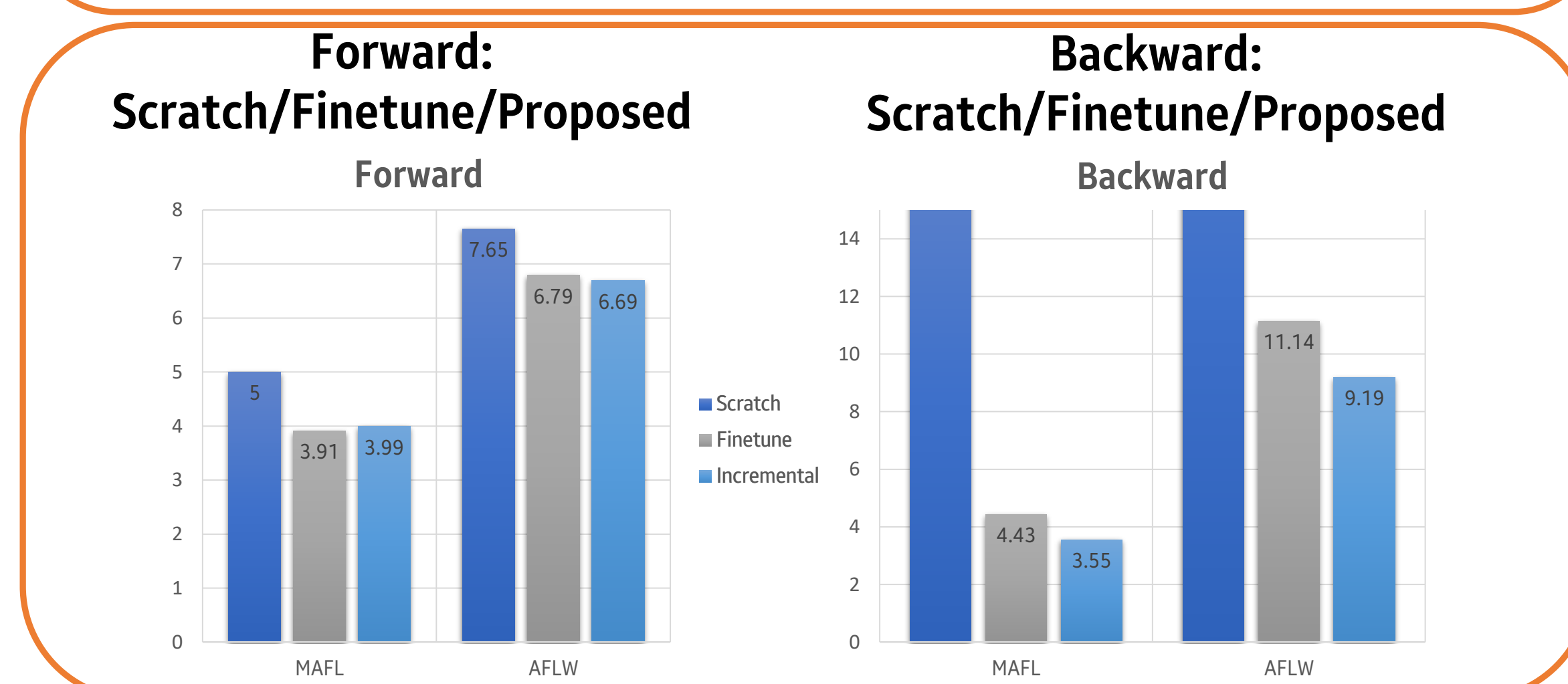
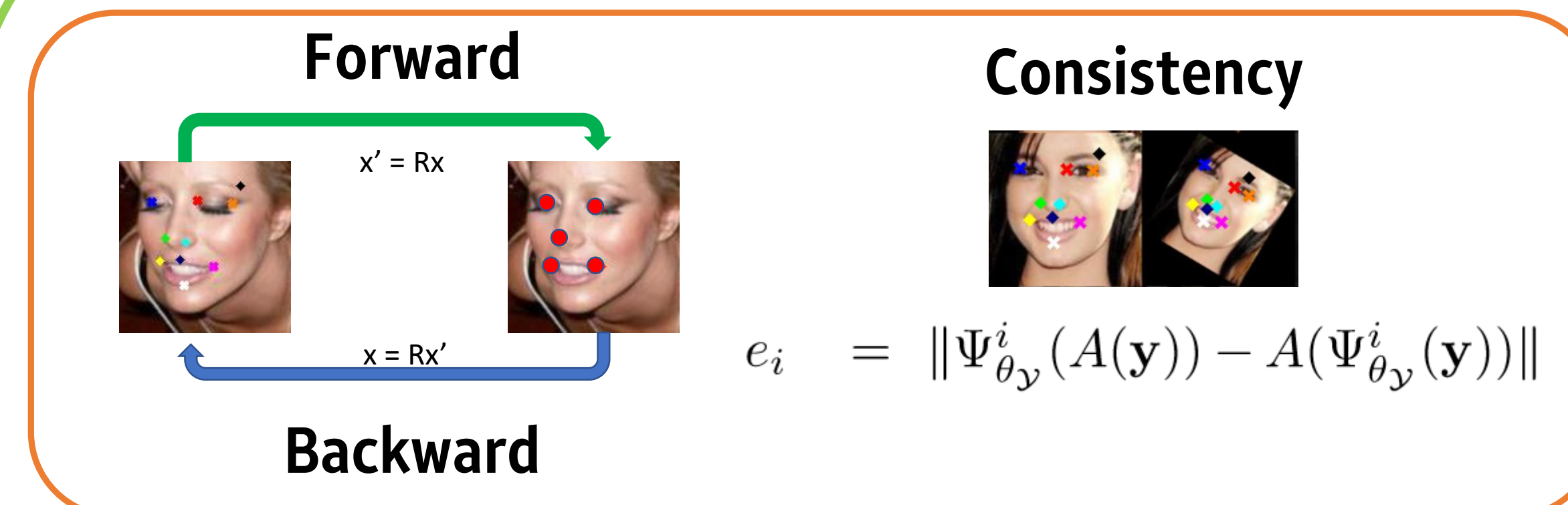
Contributions

- Goal:** learn an object detector w/o supervision through conditional image generation
- We propose an **incremental learning** approach to **unsupervised learning** of object landmark detectors
- Main idea:** use the “knowledge” of a network trained in a **supervised** way for an object category X, to learn how to discover landmarks for a different object category Y, in an **unsupervised** way.
- More constrained learning with **~10% parameters**
- Novel evaluation:
 - Forward
 - Backward
 - Consistency

Method



Evaluation



References

Thewlis et al. Unsupervised learning of object landmarks by factorized spatial embeddings. *ICCV '17*
 Jakab et al. Unsupervised learning of object landmarks through conditional image generation. *NeurIPS '18*
 Zhang et al. Unsupervised discovery of object landmarks as structural representations. *CVPR '18*