

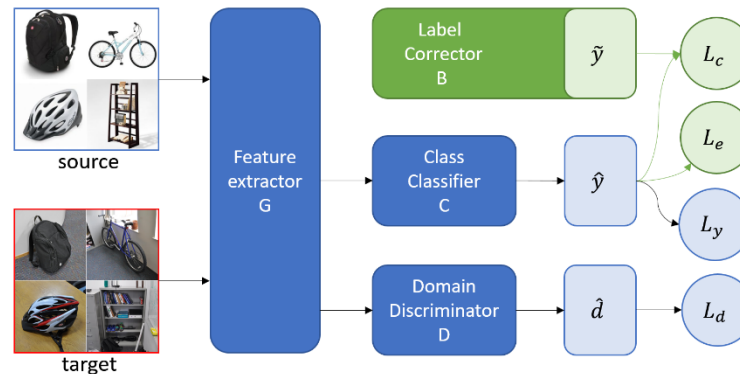
Self-corrected unsupervised domain adaptation

Yunyun WANG, Chao WANG, Hui XUE, Songcan CHEN

Frontiers of Computer Science, DOI: [10.1007/s11704-021-1010-8](https://doi.org/10.1007/s11704-021-1010-8)

Problems & Ideas

- Problems of underutilized pseudo-labels in unsupervised domain adaptation
 - Pseudo-labels are low confidence, scalar and disposable
 - No active mechanism can update pseudo-labels correctly
- Ideas: Self-corrected unsupervised domain adaptation
 - Treating pseudo-labels as variables
 - Using reverse Kullback-Leibler divergence to constrain consistency



Main Contributions

- Under SCUDA features, not only the source and target domains are well aligned, but also different categories are better discriminated.
- The test errors of different methods on task A to W, from which SCUDA has stable performance after several iterations as ResNet and RevGrad

