DJAN

Relies on pseudo-labels, which may introduce noise under large domain shifts Li et al., 2025

DANN

May lead to negative transfer due to incorrect semantic pairings Mehra et al., 2021

ADDA

Low discriminative power Gao et al., 2023

DADA

Strong invariance, poor separability Chen et al., 2022

Deep CORAL

Suffers from conflicting gradients, reducing convergence stability Wang et al., 2021

MMD

Can cause semantic collapse, mapping distinct classes to overlapping regions Zhao et al., 2022