Deep transfer cluster:

unlabeled dataset: D" = {xi; i=1, -- m}
outpul class assignment: y; " = {1, -- 12}
unknown

habeled dataset: D' = {(xi, yi); i=1-- n}

habeled dataset: $D^{1} = \{(x_{1}^{1}, y_{1}^{1}); 1 = 1 - r \in \mathbb{N}\}$ $y_{1}^{1} \neq \{1, -r \in \mathbb{N}\}$ Known:

objective: to learn what forms a good class??

& transfer the knowledge for new class. dis.

Transfer dus tering & Reprisentation learning!

ferreentation == fo(x) ∈ Rd

fine-tuned by unlabeled data } well something new.