

- unlabeled corpus [1]
- Acoustic





Personalized Acoustic Modeling by Weakly Supervised Multi-task Deep Learning Using Acoustic Tokens Discovered from Unlabeled Data



Word accuracy	Number of transcribed utterances		
Models	10	50	100
SI (DNN-HMM)	57.45%		
DLR	60.08%	65.70%	67.73%
Speaker code	60.34%	65.92%	67.89%
Lightly supervised adaptation	61.45%	62.10%	63.18%
Proposed, $m = 5, n = 200$	63.05%	66.94%	68.65%
Proposed with 4 token sets	64.89 %	67.15%	68.75 %