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Multi-style Learning with Denoising Autoencoders for Acoustic Modeling in the Internet of Things (IoT)

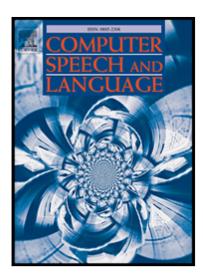
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Highlights:

- We analyze a multi-style learning (multi-style training + deep learning) procedure for acoustic modeling.
- The deep denoising autoencoder (DDAE) is used to extract and organize the most discriminative information in a training data.
- The multi-style learning makes class boundaries less sensitive to corruptions by enforcing the back-end models to emphasize on the relevant patterns.
- Results confirm that the proposed multi-style learning procedure can effectively compensate microphone mismatches.

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