

Accepted Manuscript

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

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PII: S0885-2308(16)30098-5
DOI: [10.1016/j.csl.2017.02.001](https://doi.org/10.1016/j.csl.2017.02.001)
Reference: YCSLA 823



To appear in: *Computer Speech & Language*

Received date: 18 April 2016
Revised date: 13 January 2017
Accepted date: 3 February 2017

Please cite this article as: Payton Lin , Dau-cheng Lyu , Fei Chen , Syu-Siang Wang , Yu Tsao , Multi-style Learning with Denoising Autoencoders for Acoustic Modeling in the Internet of Things (IoT), *Computer Speech & Language* (2017), doi: [10.1016/j.csl.2017.02.001](https://doi.org/10.1016/j.csl.2017.02.001)

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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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