This is a title

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Abstract—Non-Intrusive Load Monitoring(NILM) is a task of estimating the contribution of single appliance to the overall power consumption by using a set of electrical parameters measured by a single meter. NILM provides a long term consumption records of single appliance to the investigators, allowing investigators make a comprehensive understanding of the specific load. Recently, deep neural networks have make remarkable progress in neighbouring machine learning fields

Index Terms—Non-Intrusive Load Monitoring (NILM) Deep Neural Network (DNN) Long Short Time Memory denoising auto encoder (dAE)