

Deep Learning for Forecasting the Energy Consumption in Public Buildings

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In this paper we propose a deep learning based method to forecast the energy consumption in public buildings, based on past measurements. The method integrates two neural networks, namely a Feed-Forward Neural Network and a Long-

Short Term Memory Network. Our approach consists of three main steps: data processing, training and validation, and finally the forecasting step. We validated the method on a data set consisting of measurements taken every half an hour from the main building of the National Archives of the United Kingdom, in Kew.

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