

# NILMTK: An Open Source Toolkit for Non-intrusive Load Monitoring

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## ABSTRACT

*Non-intrusive load monitoring, or energy disaggregation, aims to separate household energy consumption data collected from a single point of measurement into appliance-level consumption data. In recent years, the field has rapidly expanded due to increased interest as national deployments of smart meters have begun in many countries. However, empirically comparing disaggregation algorithms is currently virtually impossible. This is due to the different data sets used, the lack of reference implementations of these algorithms and the variety of accuracy metrics employed. To address this challenge, we present the Non-intrusive Load Monitoring Toolkit (NILMTK): an open source toolkit designed specifically to enable the comparison of energy disaggregation algorithms in a reproducible manner. This work is the first research to compare multiple disaggregation approaches across multiple publicly available data sets. Our toolkit includes parsers for a range of existing data sets, a collection of preprocessing algorithms, a set of statistics for describing data sets, two reference benchmark disaggregation algorithms and a suite of accuracy metrics. We demonstrate the range of reproducible analyses which are made possible by our toolkit, including the analysis of six publicly available data sets and the evaluation of both benchmark disaggregation algorithms across such data sets.*

## Categories and Subject Descriptors

I.5 [Pattern Recognition]: Applications  
: I.2 [Artificial Intelligence]: Learning—Parameter learning

## Keywords

energy disaggregation; non-intrusive load monitoring; smart meters

## 1. INTRODUCTION

Non-intrusive load monitoring (NILM), or energy disaggregation, aims to break down a household's aggregate electricity consumption into individual appliances [1]. The motivations for such a process are threefold. First, informing a household's occupants of how much energy each appliance consumes empowers them to take steps towards reducing their energy consumption [2]. Second, personalised feedback can be provided which quantifies the savings of certain appliance-specific advice, such as the financial savings when an old inefficient appliance is replaced by a new efficient appliance. Third, if the NILM system is able to determine the time of use of each appliance, a recommender system would be able to inform the household's occupants of the savings of deferring appliance use to a time of day when electricity is either cheaper or has a lower carbon footprint.

Such benefits have drawn significant interest in the field since its inception 25 years ago. In recent years, the combination of smart meter deployments [3, 4] and reduced hardware costs of household electricity sensors has led to a rapid expansion of the field. Such rapid growth over the past five years has been evidenced by the wealth of academic papers published, international meetings held (e.g. NILM 2012<sup>1</sup> and EPRI NILM 2013<sup>2</sup>), startup companies founded (e.g. Bidgely and Neurio) and data sets released (e.g. REED3 [5], BLUED3 [6] and Smart3 [7]).

However, three core obstacles currently prevent the direct comparison of state-of-the-art approaches, and as a result may be impeding progress within the field. To the best of our knowledge, each contribution to date has only been evaluated on a single data set and consequently it is hard to assess whether such approaches generalise to new households. Furthermore, many researchers sub-sample data sets to select specific households, appliances and time periods, making experimental results more difficult to reproduce. Second, newly proposed approaches are rarely compared against the same benchmark algorithms, further increasing the difficulty in empirical comparisons of performance between different publications. Moreover, the lack of reference implementations of these state-of-the-art algorithms often leads to the reimplementation of such approaches. Third, many papers target different use cases for NILM and therefore the accuracy of their proposed approaches are evaluated using a different set of performance metrics. As a result the nu-

<sup>1</sup><http://www.ices.cmu.edu/poil/nilm/>

<sup>2</sup><http://goo.gl/dk5tpq>

# **Nilmtk An Open Source Toolkit For Non Intrusive Load**

**Reza Arghandeh, Yuxun Zhou**



### **Nilmtk An Open Source Toolkit For Non Intrusive Load:**

*Big Data Application in Power Systems* Reza Arghandeh, Yuxun Zhou, 2017-11-27 *Big Data Application in Power Systems* brings together experts from academia industry and regulatory agencies who share their understanding and discuss the big data analytics applications for power systems diagnostics operation and control Recent developments in monitoring systems and sensor networks dramatically increase the variety volume and velocity of measurement data in electricity transmission and distribution level The book focuses on rapidly modernizing monitoring systems measurement data availability big data handling and machine learning approaches to process high dimensional heterogeneous and spatiotemporal data The book chapters discuss challenges opportunities success stories and pathways for utilizing big data value in smart grids Provides expert analysis of the latest developments by global authorities Contains detailed references for further reading and extended research Provides additional cross disciplinary lessons learned from broad disciplines such as statistics computer science and bioinformatics Focuses on rapidly modernizing monitoring systems measurement data availability big data handling and machine learning approaches to process high dimensional heterogeneous and spatiotemporal data

*Sustainable Energy Solutions with Artificial Intelligence, Blockchain Technology, and Internet of Things* Arpit Jain, Abhinav Sharma, Vibhu Jatuly, Brian Azzopardi, 2023-09-15 The text provides sustainable energy solutions using smart technologies such as artificial intelligence blockchain technology and the Internet of Things It further presents several case studies on applications of the Internet of Things artificial intelligence and blockchain technology in the field of sustainable energy Focuses on the integration of smart technology including artificial intelligence and sustainable energy Covers recent advancements in energy management techniques used in residential and commercial energy systems Highlights the use of artificial intelligence machine learning and their applications in sustainable energy Discusses important topics such as green energy grid modernization smart security in the power grid and fault diagnosis Presents case studies on the applications of the Internet of Things blockchain and artificial intelligence in sustainable energy The text showcases the latest advancements and the importance of technologies including artificial intelligence blockchain and Internet of Things in achieving sustainable energy systems It further discusses the role of machine learning applied deep learning and edge computing in renewable energy The text cover key concepts such as intelligent battery management system energy trading green energy grid modernization electric vehicles and charging station optimization It will serve as an ideal reference text for senior undergraduate graduate students and academic researchers in the fields including electrical engineering electronics and communication engineering computer engineering and environmental engineering *Sustainable Energy for Smart Cities* Joao L. Afonso, Vitor Monteiro, José Gabriel Pinto, 2022-02-28 This book constitutes the refereed post conference proceedings of the 3rd EAI International Conference on Sustainable Energy for Smart Cities SESC 2021 held in November 2021 The conference was framed within the 7th Annual Smart City 360 Summit Due to COVID 19 pandemic the conferences were held

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