

Flexibility of Electricity Demand: the role of pricing and automation



Prof Jacopo Torriti

Wednesday 6th February 2019 09:00 – 13:30 Central Hall Westminster



Interaction with speakers: Sli.Do

- For WiFi connect to "CentralHall", password: Flexibility
- Go to slid.do in browser (or app) and use code #Flexibility
- For questions:
 - If directed to a particular speaker, please state their name in the question.
 - In Parallel Sessions, please state which session you are in.

Now, practice time: give your opinion flexibility poll on Slido.

- [Flexibility will benefit:
 - Consumers
 - Network operators
 - Aggregators
 - All of the above]







Housekeeping

- Fire alarms and Evacuation
 - No fire alarm tests are planned
 - In case of fire, proceed to the designated Assembly Point (Grass area at the front)
- Toilets
- Blog (Photography and Audio Recording)
- Format of the day
- Questions answered at the end of each session







Research overview

Prof Jacopo Torriti Dr Timur Yunusov Dr Mate Lorincz



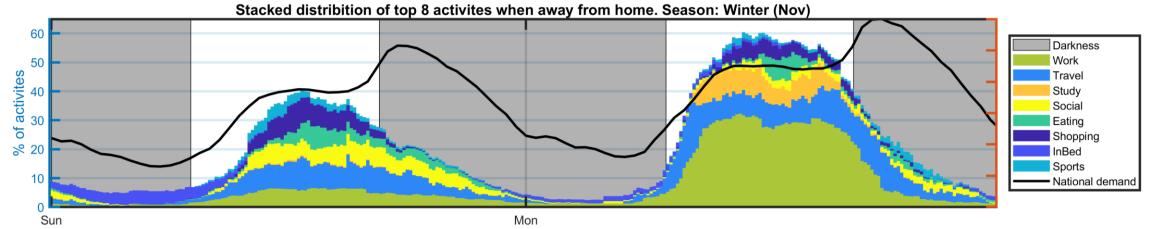


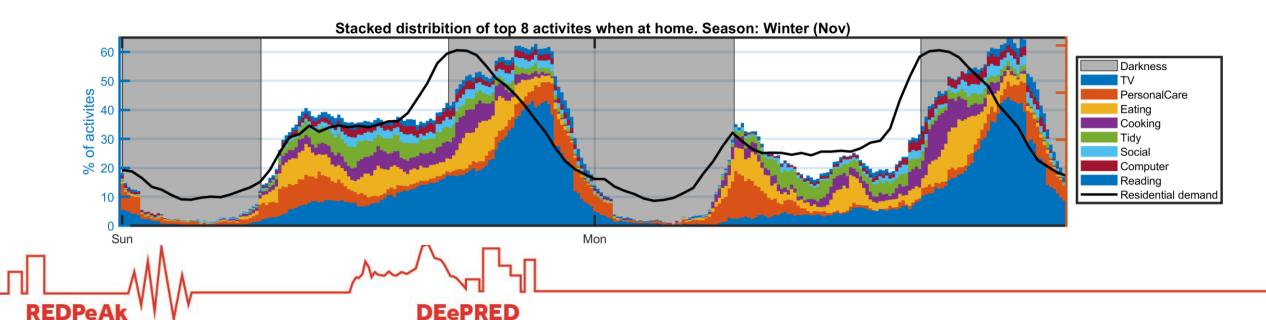




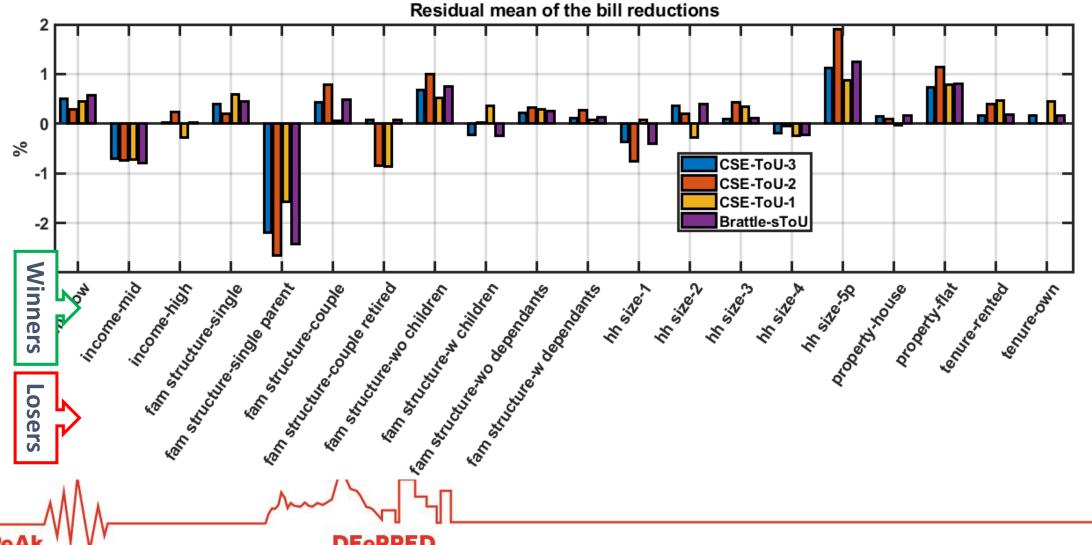


From Activities to Demand
Stacked distribition of top 8 activites when away from home. Season: Winter (Nov)



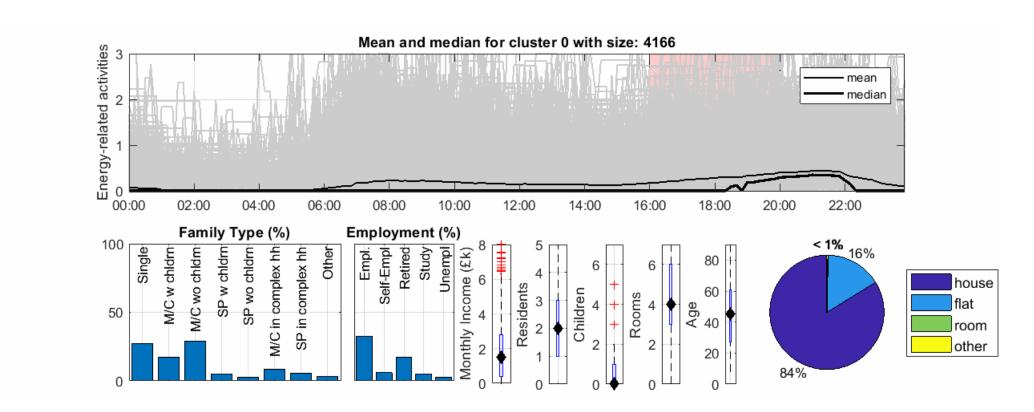


Income and impact from time of use pricing Residual mean of the bill reductions Compact From time of use pricing Residual mean of the bill reductions





Clustering by activity

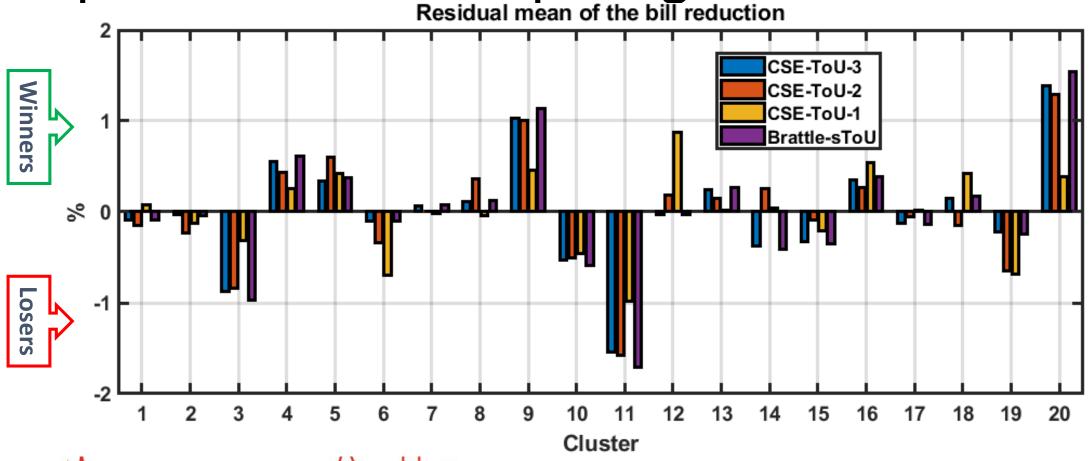






Clustering by activity: impact of time-of-use pricing Residual mean of the bill reduction

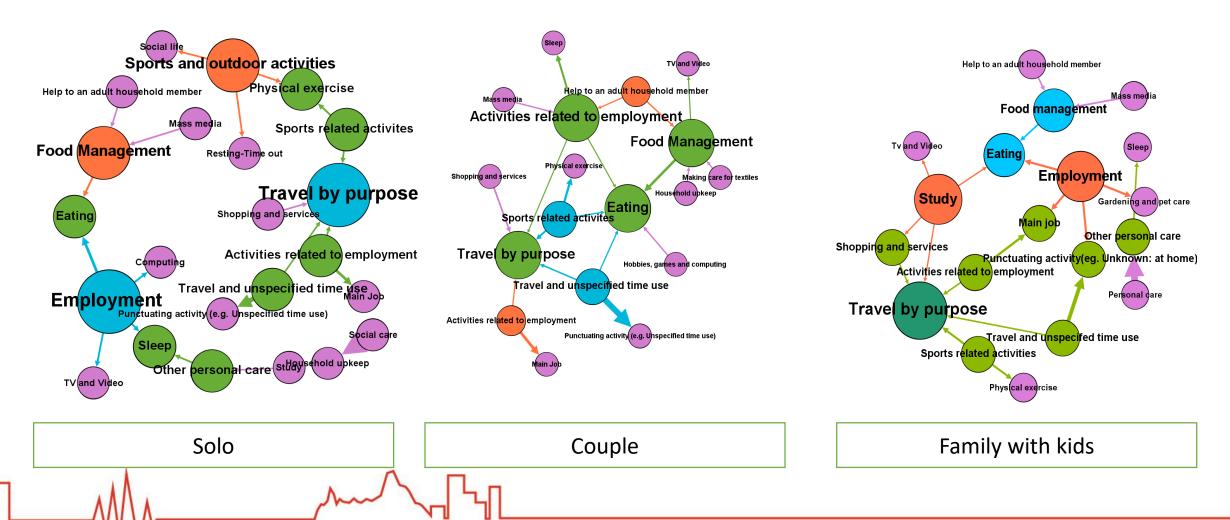






DEePRED

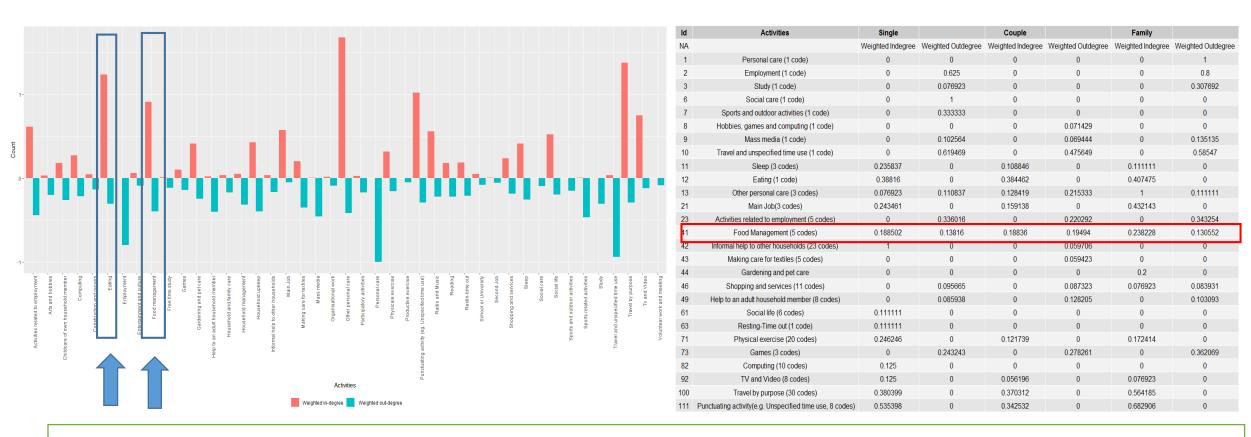
Sequences of activities and demographics Reading



University of



Start and end points for sequences



In-degree and out degree relationship in families with kids as well across different types of households





Sli.do poll <u>results</u>









Website: research.reading.ac.uk/redpeak

