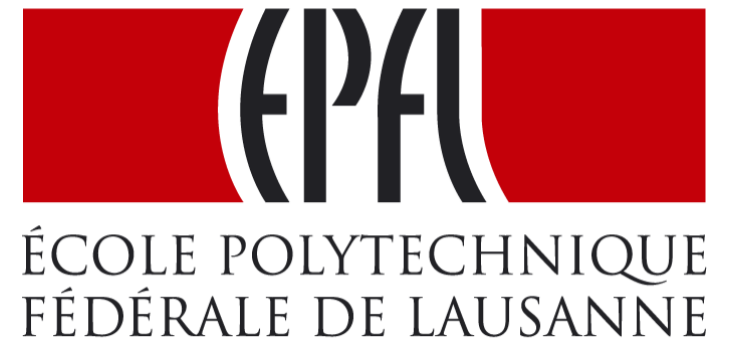


SmartD: Smart Meter Data Analytics Dashboard

for Energy Consumption Behavior Analysis

Aylin Jarrah Nezhad | Tri Kurniawan Wijaya | Matteo Vasirani | Karl Aberer



SMART METERS



From costly deployment to data deluge

HOW can we benefit from them?
HOW can we get the most out of them?

1 From context to key customer characteristics

2 From customer characteristics to load profiles

WE ANSWER:

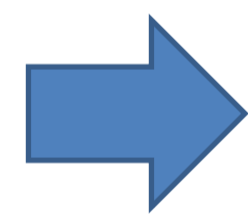
which customer characteristics define energy consumption on a certain context?

WE ANSWER:

how does the load profile of a customer with some specific characteristics look like?

summer, weekdays
summer, weekend
winter, Monday

context

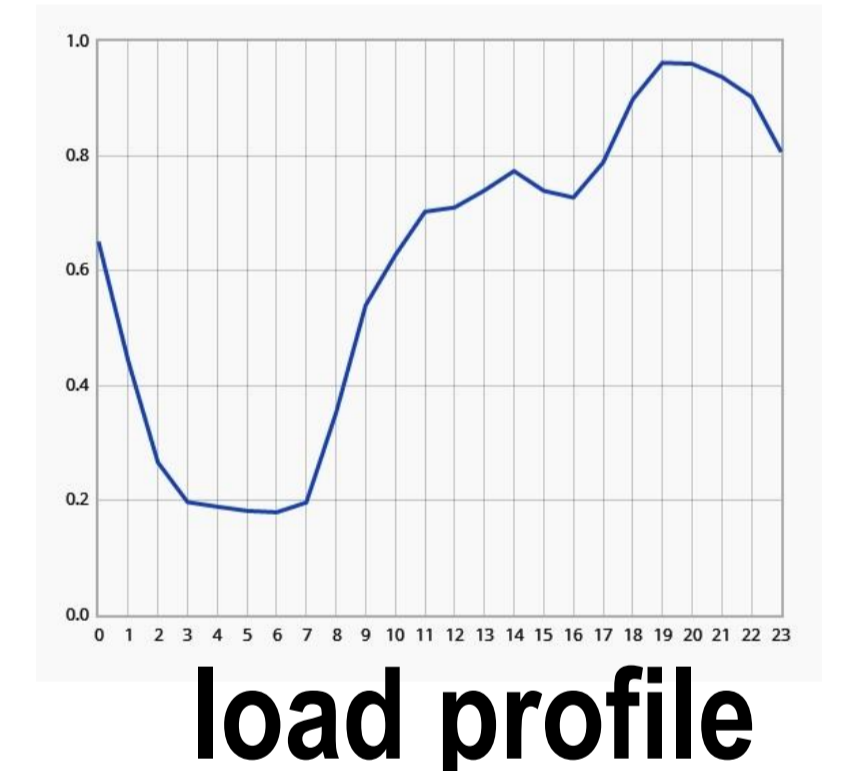
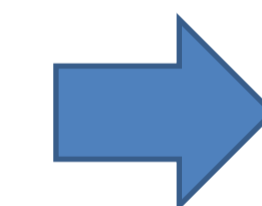


floor area
dryer usage
#children

key characteristics

floor area: 1000 sq. ft.
dryer usage: once a day
#children: 1

cust. characteristics



3 From context to load profiles

WE ANSWER:

how do the customers' load profiles:
★ on a certain **context**,
★ on different **temporal aggregations**,
★ compared to the **other customers**,
★ in the near **future**,
look like?

how are their energy consumption distribution look like?

context start/end time
aggregation hourly/daily/...
comparison one or more cust.

load profiles

