

Workshop on

Value creation by use of smart city data

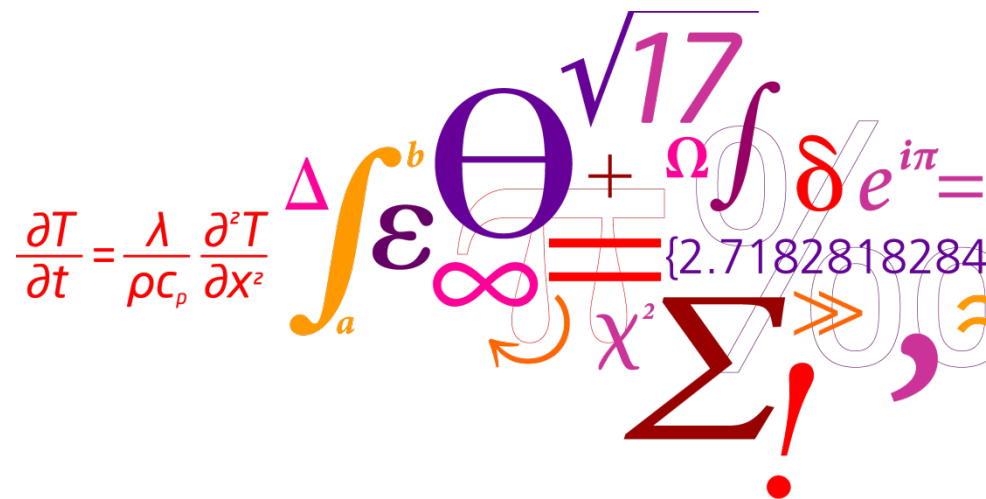
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Objective

There is an immense interest in the information contained within data from operation of district energy systems.

Such data comprise consumption data from individual users as well as other network data.

The data have big interest for operators because of the huge value associated with the optimal management of a secure delivery to all consumers in response to the very dynamic situation for supply and demand.

The data are also of great interest to researchers who will study and develop models for intelligent operation of the integrated energy system.

Thus, data and its proper management has become an important asset in communities, but its handling also needs to be done in a proper way that respects issues of privacy and business confidentiality.

Data management, and its form of representation is of great interest to a wide range of stakeholders involved in smart city development.

We will discuss these issues at the workshop and see specific examples of data use in smart city operation and research.



Participants

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Agenda - Session 1

An overview of data:

What is there, its use (value creation) and availability

- 10:10 - 10:30** Henrik Madsen, DTU, CITIES
Perspectives for use of data in district heating systems
- 10:30 - 10:50** Martin Heine Kristensen, Aarhus Univ. Dept. of Eng.
City-scale building energy modelling using metered district heating data
- 10:50 - 11:20** Thomas Vinther Andersen & Adam Brun, AffaldVarme Aarhus
The role of the data responsible person in a public enterprise
AVA's value propositions on smart use of data
- 11:20 - 11:50** Morten Westergaard, Middelfart Kommune
The Case of Middelfart: "Smart Energy @ Home", almost 200 households using Smart Energy and results.
Some municipality considerations regarding data and technology

Agenda - Break

11:50 - 12:00 "Nature break"

12:00 - 12:30 Visit to the NAVITAS Building

12:30 - 13:15 Lunch

Agenda - Session 2

Examples of specific use of data

- 13:15 - 13:35** Kasper Jessen, Grøn Energi / Dansk Fjernvarme
Experiences from use of national database of energy consumption in buildings
- 13:35 - 13:55** Anders Bavnhøj Hansen, Energinet.DK
The need for market data and market solutions in the heating sector to obtain an efficient integration with the electricity market
- 13:55 - 14:15** Per Dahlgaard Pedersen, Neogrid Technologies
Heat prediction and control based on Smart City data ()
- 14:15 - 14:30** Michael Dahl Knudsen, Aarhus Univ. Department of Eng.
Energy Flexibility in Domestic Hot Water Preparation
- 14:30 - 15:00** Panagiota Gianniou, Xiufeng Liu, Alfred Heller, DTU
Demonstration of clustering applied to AVA data
Data analytics on Jupyterhub
An example of specific collaboration on data use for CITIES

Agenda - Session 2

continued...

15:00 - 15:15 Break (w. refreshments)

15:15 - 15:55 Charlotte Bagger Tranberg, Bech-Bruun Advokatvirksomhed
Use of personal data – legal conditions

15:55 - 16:00 Closure



**Centre for IT-Intelligent
Energy Systems in Cities**



CITIES

