Per Sieverts Nielsen - DTU Orbit (12/10/2017)

Nielsen, Per Sieverts
pernn@dtu.dk
Department of Management Engineering - Senior Researcher
Systems Analysis

Publications:

Air Quality Monitoring System and Benchmarking
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

A Novel Smart Meter Controlling System with Dynamic IP Addresses
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

CITIESData: a smart city data management framework
Publication: Research - peer-review › Journal article – Annual report year: 2017

SciCloud: A Scientific Cloud and Management Platform for Smart City Data
Liu, X., Nielsen, P. S., Heller, A. & Gianniou, P. 2017
Publication: Research - peer-review › Paper – Annual report year: 2017

Structured Literature Review of Electricity Consumption Classification Using Smart Meter Data
Tureczek, A. M. & Nielsen, P. S. 2017 In : Energies. 10, 5, 19 p., 584
Publication: Research - peer-review › Journal article – Annual report year: 2017

A hybrid ICT-solution for smart meter data analytics
Publication: Research - peer-review › Journal article – Annual report year: 2016

CITIESData: Towards Cloud Based Big Data Management for Smart Cities
Publication: Research › Poster – Annual report year: 2016

Identification of parameters affecting the variability of energy use in residential buildings
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Identification of Parameters Affecting the Variability of Energy Use in Residential Buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Online Anomaly Energy Consumption Detection Using Lambda Architecture
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016
Optimizing ETL by a Two-level Data Staging Method
Publication: Research - peer-review › Journal article – Annual report year: 2016

Regression-based Online Anomaly Detection for Smart Grid Data
Publication: Research › Journal article – Annual report year: 2016

Streamlining Meter Data Analytics
Liu, X. & Nielsen, P. S. 2016
Publication: Research › Poster – Annual report year: 2016

Utilisation of rice residues for decentralised electricity generation in Ghana: An economic analysis
Publication: Research - peer-review › Journal article – Annual report year: 2016

Aggregation of building energy demands for city-scale models
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Cloud-Based Software Platform for Smart Meter Data Management
Liu, X. & Nielsen, P. S. 2015
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Streamlining Smart Meter Data Analytics
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

A comparative study of contextual urban design approaches in the UK and DK
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Logistics cost analysis of rice residues for second generation bioenergy production in Ghana
Publication: Research - peer-review › Journal article – Annual report year: 2014

The Potential of the Technical University of Denmark in the Light of Sustainable Livable Cities
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Definition of Smart Energy City and State of the art of 6 Transform cities using Key Performance Indicators: Deliverable 1.2
Publication: Research › Report – Annual report year: 2013

Use of biomass energy in Denmark and its dependence on internalisation of externalities from energy systems
Publication: Research - peer-review › Paper – Annual report year: 2012
Life Cycle Assessment of wood pellets and bioethanol from wood residues and willow
Publication: Research - peer-review › Journal article – Annual report year: 2009

Analysing transport costs of Danish forest wood chip resources by means of continuous cost surfaces
Publication: Research - peer-review › Journal article – Annual report year: 2007

Mapping of PM10 from Domestic heating with firewood in rotorua, New Zealand
Jonsson, A. & Nielsen, P. S. 2007 Swedish University of Agricultural Sciences
Publication: Research › Working paper – Annual report year: 2007

Fuel pellets
Nielsen, P. S. 2005
Publication: Research › Paper – Annual report year: 2005

Opportunities for installing cogeneration plants for wood processing operations in Australasia
Nielsen, P. S., Pedersen, J. J. & Estcourt, G. 2005
Publication: Research › Paper – Annual report year: 2005

Quantifying the availability and volume of the forest resides resource
Hock, B., Nielsen, P. S., Grigolato, S., Firth, J., Möller, B. & Evanson, T. 2005
Publication: Research › Paper – Annual report year: 2005

Supply of logging residues for energy production
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Bioenergy cogeneration opportunities in Australia
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Case study: Rotorua pellets study
Nielsen, P. S., Estcourt, G. & Hodgson, C. J. 2004 Proceedings of the BANZ bioenergy workshop: What more can be done to increase the use of bioenergy in New Zealand from woody biomass.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Energy demand analysis for small and medium scale heat users in Rotorua aiming at converting existing heating systems to bioenergy
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Geographical analyses of wood chip potentials, costs and supply for sustainable energy production in Denmark
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Residential heating in New Zealand - are wood pellet appliances a benefit to the energy sector in New Zealand?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004
Scoping technology scenarios for a 100% renewable energy Rotorua
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Life after Waste Assessment as a contrast to Life Cycle Assessment
Publication: Research › Article in proceedings – Annual report year: 2003

Pellets - processing into a pellet fuel
Publication: Research › Article in proceedings – Annual report year: 2003

Potential resources for wood pellet production
Publication: Research › Article in proceedings – Annual report year: 2003

Application of fuel pellets for institutional/industrial energy users, district heating and CHP - European experiences
Nielsen, P. S. 2002
Publication: Research › Paper – Annual report year: 2002

Resources for fuel pellets production in New Zealand
Publication: Research › Paper – Annual report year: 2002

Sustainable energy - Danish case studies
Nielsen, P. S. 2002
Publication: Research › Paper – Annual report year: 2002

The wood waste resource: Assessing the technical, economic and market potential for energy production in New Zealand
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Utilisation of wood waste - challenges for the sector
Publication: Research › Article in proceedings – Annual report year: 2002

Linking fuel supply to new bioenergy markets
Nielsen, P. S. 2001
Publication: Research › Paper – Annual report year: 2001

Scoping Combustion Guidelines
Nielsen, P. S. 2001
Publication: Research › Paper – Annual report year: 2001

Transforming the forest waste streams into biofuels for energy: A case study for Rotorua
Publication: Research › Article in proceedings – Annual report year: 2001

Transforming the forest waste streams into biofuels for energy. A case study for Rotorua
Nielsen, P. S. 2001
Publication: Research › Paper – Annual report year: 2001
Electrokinetic Remediation of bio-ashes
Publication: Research › Paper – Annual report year: 2000

Assessment and dissemination of a Pyrolysis Gasifier Stove in Ghana - A Project Description
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

Biomass Policies and Biogas Utilisation in Denmark
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

Elektrokinetisk rensning af aske: Fase 1. Resultater af rensningsforsøg med halmaske og træaske og vurdering af metodens egnethed
Publication: Research - peer-review › Report – Annual report year: 1999

Environmental Costs of energy from Two Biogas Plants in Denmark
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

Energy and Greenhouse gas balances of the utilisation of biogas for energy: - with a special focus on transportation
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

Environmental external effects from wind power based on the EU ExternE methodology
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

Environmental externalities related to power production on biogas and natural gas based on the EU ExternE methodology
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

External effects related to biogas and wind power
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

Test of pyrolysis gasifier stoves in two institutional kitchens in Uganda
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

The role of transportation and co-fermentation in the CO2 balance for utilisation of biogas for energy
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998
Total Costs and Benefits of Biomass in Selected regions of the European Union
Publication: Research - peer-review › Report – Annual report year: 1998

CO2 balance in production of energy based on biogas
Publication: Research - peer-review › Article in proceedings – Annual report year: 1997

Environmental external effects from wind power based on the EU ExternE methodology
Schleisner, L. & Nielsen, P. S. 1997
Publication: Research › Conference abstract for conference – Annual report year: 1997

Environmental Externalities Related to Power Production Technologies in Denmark
Publicaiton: Research - peer-review › Article in proceedings – Annual report year: 1997

External Costs Related to Power Production Technologies: ExternE National Implementation for Denmark
Publication: Research - peer-review › Report – Annual report year: 1997

External costs related to power production technologies. ExternE national implementation for Denmark
Schleisner, L. & Nielsen, P. S. 1997 127 p. (Denmark. Forskningscenter Risoe. Risoe-R; No. 1033(EN)).
Publication: Research › Report – Annual report year: 1997

External costs related to power production technologies. ExternE national implementation for Denmark. Appendix
Publication: Research › Report – Annual report year: 1997

Assessment of Environmental External Effects in Power Generation
Publication: Research - peer-review › Report – Annual report year: 1996

Balanced Ecological Use of Biomass Resources in DK
Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

Efficiency Tests on the New Peko Pe Stove in Uganda
Nielsen, P. S. 1996 In : Sustainable Energy News. 14
Publication: Communication › Journal article – Annual report year: 1996

Efficiency tests on the pyrolysis gasifier stove Peko Pe
Publication: Research - peer-review › Report – Annual report year: 1996

Energy conservation options for cooking with biomass in Ghana
Publication: Research - peer-review › Report – Annual report year: 1996
**Smart Cities Accelerator**
Heller, A., Madsen, H. & Nielsen, P. S.
20/04/2018 → 20/07/2018
Project

**Science Cloud for Cities**
Heller, A., Nielsen, P. S. & Madsen, H.
01/09/2016 → 16/12/2017
Project

**Benchmarking Residential Energy Consumption In Indonesia**
Kewo, A., Nielsen, P. S. & Liu, X.
01/05/2016 → 30/04/2019
Project: PhD

**Modeling Energy Supply for Future Cities**
Dominkovic, D. F., Pedersen, A. S., Nielsen, P. S. & Sørensen, M. P.
15/09/2015 → 14/09/2018
Project: PhD

**Analysis of high frequency (*smart meter*) energy consumption data**
Tureczek, A. M., Nielsen, P. S. & Madsen, H.
01/08/2015 → 31/07/2018
Project: PhD

**Buildings for Smart Energy Cities**
Gianniou, P., Rode, C., Nielsen, P. S. & Heller, A.
15/09/2014 → 15/09/2017
Project

**Buildings for Smart Energy Cities**
Gianniou, P., Rode, C., Heller, A. & Nielsen, P. S.
15/09/2014 → 14/12/2017
Project: PhD

**Center for IT-Intelligent Energy Systems for Cities**
01/01/2014 → 31/12/2019
Project

**Hybrid Life-cycle-assessment-urban-metabolism model as a framework for quantifying the contributions of urban agriculture to the sustainability of urban food system**
01/12/2013 → 23/03/2017
Project: PhD

**Urban energy transitions and quality of life**
Ben Amer-Allam, S., Nielsen, P. S. & Gregg, J. S.
01/12/2013 → 30/11/2017
Project: PhD

**Performance indicators frameworks for national sustainable transport planning**
Cornet, Y., Gudmundsson, H., Leleur, S., Nielsen, P. S., Macharis, C. & Marsden, G.
15/02/2013 → 29/09/2016
Project: PhD
Energy Demand Modelling
01/04/2008 → 26/02/2013
Project: PhD

AVALANCHE - Applied Global Simulation of Renewable Energies on Internet: Removing barriers to RE by embedding powerful software into a social context
Nielsen, V. & Nielsen, P. S.
01/05/1998 → 30/04/2000
Project

Biocost
01/01/1997 → 31/12/1997
Project

Energi- og miljømæssige perspektiver ved udnyttelse af biomasse i energiforsyningen
Nielsen, P. S., Meyer, N. I. & Hvelplund, F.
01/02/1994 → 23/04/1997
Project: PhD

Activities:

Low Carbon Economy Territory (ESPON - LOCATE) workshop
Kewo, A. (Speaker), Nielsen, P. S. (Speaker)
29 Mar 2017
Activity: Talks and presentations › Conference presentations

Smart Cities: Low Carbon Solutions
Nielsen, P. S. (Lecturer)
26 Sep 2016
Activity: Talks and presentations › Conference presentations

Den Digitale Masterplan
Nielsen, P. S. (Participant)
23 Sep 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Smart Cities: Low Carbon Solutions
Nielsen, P. S. (Lecturer)
16 Aug 2016
Activity: Talks and presentations › Conference presentations

Generalforsamling i Dansk Byplanlaboratorium
Nielsen, P. S. (Participant)
22 Jun 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Bits and Bytes - NATUR & MILJØ 2016
Nielsen, P. S. (Participant)
8 Jun 2016 → 9 Jun 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Visit by UK delegation
Nielsen, P. S. (Participant)
17 May 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Version2 Conference and Exhibition**
Nielsen, P. S. (Participant)
3 May 2016 → 4 May 2016

Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**DiCyPS årsmøde 2016**
Nielsen, P. S. (Participant)
3 Mar 2016

Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Workshop om data og forretningsudvikling hos slutbrugerne**
Nielsen, P. S. (Participant)
3 Feb 2016

Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Databeskyttelsesdagen**
Nielsen, P. S. (Participant)
28 Jan 2016

Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Match making meeting in Paris - UERA - ENSUF**
Nielsen, P. S. (Participant)
18 Jan 2016 → 19 Jan 2016

Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Temadag: Grøn omstilling og vækst som tema i planstrategier og kommuneplaner**
Nielsen, P. S. (Participant)
13 Jan 2016

Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Living Labs for Scalability**
Nielsen, P. S. (Speaker)
17 Dec 2015

Activity: Talks and presentations › Conference presentations

**Smart City workshop between TU Berlin, NTNU and DTU**
Nielsen, P. S. (Participant)
7 Dec 2015 → 8 Dec 2015

Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Match making møde på den Nederlandske Ambassade**
Nielsen, P. S. (Participant)
23 Nov 2015

Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**UCD Energy Institute & Electricity Research Centre Research Symposium 2015**
Nielsen, P. S. (Participant)
23 Nov 2015 → 24 Nov 2015

Activity: Attending an event › Participating in or organising a conference

**Smart City Conference and Exhibition in Barcelona 2015**
Nielsen, P. S. (Participant)
16 Nov 2015 → 19 Nov 2015

Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.
Nordisk konference om Grøn omstilling af kommuner
Nielsen, P. S. (Participant)
11 Nov 2015 → 12 Nov 2015
Activity: Attending an event › Participating in or organising a conference

NTNU rector visit and workshops
Nielsen, P. S. (Participant)
2 Nov 2015 → 3 Nov 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

News from CMT and WP1 activities
Nielsen, P. S. (Speaker)
26 Oct 2015
Activity: Talks and presentations › Conference presentations

Urbanisering og sammenhængskraft
Nielsen, P. S. (Participant)
19 Oct 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

CPH Climate plan
Nielsen, P. S. (Participant)
5 Oct 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Transition towards Sustainable and Liveable Urban Futures
Nielsen, P. S. (Participant)
30 Sep 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Energi i planlægningen
Nielsen, P. S. (Lecturer)
9 Jun 2015
Activity: Talks and presentations › Conference presentations

Smart City Conference and Exhibition in Amsterdam 2015
Nielsen, P. S. (Participant)
2 Jun 2015 → 5 Jun 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Integration of energy systems in the CITIES project
Nielsen, P. S. (Speaker)
19 May 2015
Activity: Talks and presentations › Conference presentations

Use of KPIs in the Transform Project
Nielsen, P. S. (Speaker)
4 Dec 2014
Activity: Talks and presentations › Conference presentations

Energiscenarier for Sønderborg
Nielsen, P. S. (Participant)
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.
Energy Services and Demand
Nielsen, P. S. (Lecturer)
26 May 2014
Activity: Talks and presentations › Conference presentations

Generalforsamling i Dansk Byplanlaboratorium
Nielsen, P. S. (Participant)
21 May 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

iPower Annual Conference 2014
Nielsen, P. S. (Participant)
13 May 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

CITIES - WP1 – Energy services and demand: state of the art
Nielsen, P. S. (Lecturer)
29 Jan 2014
Activity: Talks and presentations › Conference presentations

Green Growth and Urban Development – European experiences.
Nielsen, P. S. (Lecturer)
25 Sep 2012
Activity: Talks and presentations › Conference presentations