

Reports and Papers

- [1] P. Pinson, G. Papaefthymiou, B. Klockl, and H. Aa. Nielsen. Generation of statistical scenarios of short-term wind power production. In *Proceedings of the IEEE PowerTech Conference*, Lausanne, Switzerland, 2007.
- [2] Pierre Pinson and Henrik Aalborg Nielsen. Robust estimation of time-varying coefficient functions - Application to the modelling of wind power production. Technical report, Technical University of Denmark, Informatics and Mathematical Modelling, 2007. PSO project FU4101. (available online: www2.imm.dtu.dk/~pp).
- [3] P. Pinson, H. Aa. Nielsen, J. K. Møller, H. Madsen, and G. Kariniotakis. Probabilistic forecasts of wind power: Required properties and evaluation. *Wind Energy*, 2007. To be published.
- [4] Pierre Pinson, Jan K. Møller, Henrik Aa. Nielsen, Henrik Madsen, and George N. Kariniotakis. Evaluation of nonparametric probabilistic forecasts of wind power. Technical Report 2007-02, Informatics and Mathematical Modelling, Technical University of Denmark, DK-2800 Kgs. Lyngby, 2007.
- [5] P. Pinson, H.Aa. Nielsen, H. Madsen, M. Lange, and G. Kariniotakis. Methods for the estimation of the uncertainty of wind power forecasts. Technical report, Informatics and Mathematical Modelling, Technical University of Denmark, Richard Petersens Plads, 2800 Kgs. Lyngby, Denmark, 2007. ANEMOS DELIVERABLE D3.1b.
- [6] Henrik Aa. Nielsen, Torben S. Nielsen, Henrik Madsen, Maria J. San Isidro Pindado, and Ignacio Marti. Optimal combination of wind power forecasts. *Wind Energy*, 10:471–482, 2007. DOI: 10.1002/we.237.
- [7] Henrik Aalborg Nielsen, Pierre Pinson, Lasse Engbo Christiansen, Torben Skov Nielsen, Henrik Madsen, Jake Badger, Gregor Giebel, and Hans F. Ravn. Improvement and automation of tools for short term wind power forecasting. In *Scientific Proceedings of the European Wind Energy Conference & Exhibition*, 2007. Submitted.

- [8] P. Pinson, G. Kariniotakis, H. Aa. Nielsen, T. S. Nielsen, and H. Madsen. Properties of quantile and interval forecasts of wind generation and their evaluation. In *Proceedings of the European Wind Energy Conference & Exhibition*, Athens, March 2006. EWEA. <http://www.ewea.org>.
- [9] G. Giebel, L. Landberg, H. Madsen, T. S. Nielsen, and H. Aa. Nielsen. *Introduction to Wind Technology*, chapter Short-term (30min-72 hrs) prediction for power output from wind farms, pages 1–19. Lecture Series 2006–02. von Karman Institute for Fluid Dynamics, February 20–24 2006. ISSN 0377-8312, ISBN 2-930389-64-8, VKI LS 2006-02.
- [10] Jan Kloppenborg Møller, Henrik Aa. Nielsen, and Henrik Madsen. Time adaptive quantile regression. 2006. Submitted.
- [11] Jan Kloppenborg Møller, Henrik Aalborg Nielsen, and Henrik Madsen. Algorithms for adaptive quantile regression – and a matlab implementation. Technical Report 2006-08, Informatics and Mathematical Modelling, Technical University of Denmark, DK-2800 Kgs. Lyngby, 2006.
- [12] H. Jonsdottir, H. A. Nielsen, H. Madsen, J. Eliasson, O. P. Pals-son, and M. K. Nielsen. Conditional parametric models for storm sewer runoff. *Water Resources Research*, 43, 2007. W05443, doi: 10.1029/2005WR004500.
- [13] Henrik Aalborg Nielsen, Henrik Madsen, and Torben Skov Nielsen. Using quantile regression to extend an existing wind power forecasting system with probabilistic forecasts. *Wind Energy*, 9:95–108, 2006.
- [14] Henrik Aalborg Nielsen and Henrik Madsen. Modelling the heat consumption in district heating systems using a grey-box approach. *Energy & Buildings*, 38:63–71, 2006.
- [15] Torben. S. Nielsen, Henrik Aa. Nielsen, Henrik Madsen, Maria J. San Isidro, and Ignacio Marti. Optimal wind power forecasting by model combination. European Wind Power Conference and Exhibition, 2006. Poster.
- [16] Henrik Aalborg Nielsen, Torben Skov Nielsen, Henrik Madsen, Gregor Giebel, Jake Badger, Lars Landberg, Kai Sattler, Lars Voulund, and John Tøfting. From wind ensembles to probabilistic information about

future wind power production – results from an actual application. In *Proceedings of the 9th International Conference on Probabilistic Methods Applied to Power Systems*, June 11–15 2006. Invited paper.

- [17] Christoffer W. Tornøe, Henrik Agerso, Thomas Senderovitz, Henrik A. Nielsen, Henrik Madsen, Mats O. Karlsson, and E. Niclas Jonsson. Population pharmacokinetic/pharmacodynamic (pk/pd) modelling of the hypothalamic-pituitary-gonadal axis following treatment with gnrh analogues. *British Journal of Clinical Pharmacology*, 0(0):??–??, 0. Published article online: 10-Nov-2006.
- [18] Poul Sørensen, Anca D. Hansen, Kenneth Thomsen, Henrik Madsen, Henrik Aa. Nielsen, Niels K. Poulsen, Florin Iov, Frede Blaabjerg, and Martin H. Donovan. Wind farm controllers with grid support. In *Large Scale Wind Power workshop*, Glasgow, 2005.
- [19] H. Madsen, P. Pinson, G. Kariniotakis, H. Aa. Nielsen, and T. S. Nielsen. Standardizing the performance evaluation of short-term wind prediction models. *Wind Engineering*, 29(6):475–489, 2005.
- [20] Henrik Madsen, Henrik Aalborg Nielsen, and Torben Skov Nielsen. A tool for predicting the wind power production of off-shore wind plants. In *Proceedings of the Copenhagen Offshore Wind Conference & Exhibition*, Copenhagen, October 2005. Danish Wind Industry Association. <http://www.windpower.org/en/core.htm>.
- [21] Henrik Aalborg Nielsen, Torben Skov Nielsen, Henrik Madsen, and Gregor Giebel. Candidate prediction models and methods. Technical report, Informatics and Mathematical Modelling, 2005. Prepared under PSO-project FU4101 ”Intelligent wind power prediction systems”.
- [22] Henrik Aalborg Nielsen, Henrik Madsen, Torben Skov Nielsen, Jake Badger, Gregor Giebel, Lars Landberg, Kai Sattler, and Henrik Feddersen. Wind Power Ensemble Forecasting Using Wind Speed and Direction Ensembles from ECMWF or NCEP. Technical report, Informatics and Mathematical Modelling, 2005. Prepared under PSO-project FU2101, URL: <http://www.risoe.dk/zephyr/publ.htm>.
- [23] Henrik Aalborg Nielsen, Devon Yates, Henrik Madsen, Torben Skov Nielsen, Jake Badger, Gregor Giebel, Lars Landberg, Kai Sattler, and

- Henrik Feddersen. Analysis of the results of an on-line wind power quantile forecasting system. Technical report, Informatics and Mathematical Modelling, 2005. Prepared under PSO-project FU2101, URL: <http://www.risoe.dk/zephyr/publ.htm>.
- [24] Gregor Giebel, Jake Badger, Lars Landberg, Henrik Aalborg Nielsen, Torben Skov Nielsen, Henrik Madsen, Kai Sattler, Henrik Feddersen, Henrik Vedel, John Tøfting, Lars Kruse, and Lars Voulund. Wind power prediction using ensembles. Technical Report Risø-R-1527(EN), Risø National Laboratory, 2005. ISBN 87-550-3464-0.
- [25] Christoffer W. Tornøe, Henrik Agersø, Henrik Aa. Nielsen, Henrik Madsen, and E. Niclas Jonsson. Pharmacokinetic/Pharmacodynamic Modelling of GnRH Antagonist Degarelix: A Comparison of the Non-linear Mixed Effects Programs NONMEM and NLME. *Journal of Pharmacokinetics and Pharmacodynamics*, 31(6):441–461, 2005.
- [26] Christoffer W. Tornøe, Rune V. Overgaard, Henrik Agersø, Henrik A. Nielsen, Henrik Madsen, and E. Niclas Jonsson. Stochastic differential equations in NONMEM: Implementation, application, and comparison with ordinary differential equations. *Pharmaceutical Research*, 28(8):1247–1258, 2005.
- [27] Poul Sørensen, Anca D. Hansen, Kenneth Thomsen, Henrik Madsen, Henrik Aa. Nielsen, Niels K. Poulsen, Florin Iov, Frede Blaabjerg, and Bernd K. Okkels. Simulation and optimisation of wind farm controllers. In *Proceedings of the European Wind Energy Conference & Exhibition*, London, November 2004. EWEA. <http://www.ewea.org>.
- [28] H. Madsen, G. Kariniotakis, H.Aa. Nielsen, T.S. Nielsen, and P. Pinson. A protocol for standardizing the performance evaluation of short-term wind power prediction models. In *Proceedings of the 2004 Global Wind-power Conference and Exhibition*, Chicago, Illinois, USA, March 2004. <http://www.awea.org>.
- [29] Henrik Aalborg Nielsen, Henrik Madsen, and Torben Skov Nielsen. Using quantile regression to extend an existing wind power forecasting system with probabilistic forecasts. In *Scientific Proceedings of the European Wind Energy Conference & Exhibition*, London, November 2004. EWEA. <http://www.ewea.org>.

- [30] Henrik Aalborg Nielsen and Henrik Madsen. Analysis of high-frequency wind speed data. Technical report, Informatics and Mathematical Modelling, 2004. Prepared under PSO-project FU2102.
- [31] Henrik Aalborg Nielsen, Henrik Madsen, and Poul Sørensen. Ultra-short term wind speed forecasting. In *Proceedings of the European Wind Energy Conference & Exhibition*, London, November 2004. EWEA. <http://www.ewea.org>.
- [32] H.Aa. Nielsen, H. Madsen, T.S. Nielsen, J. Badger, G. Giebel, L. Landberg, K. Sattler, and H. Feddersen. Wind power ensemble forecasting. In *Proceedings of the 2004 Global Windpower Conference and Exhibition*, Chicago, Illinois, USA, March 2004. <http://www.awea.org>.
- [33] Henrik Aalborg Nielsen and Henrik Madsen. Forecasting wind speeds on the minute time-scale using up-stream information. Technical report, Informatics and Mathematical Modelling, 2004. Prepared under PSO-project FU2102.
- [34] Henrik Aalborg Nielsen, Henrik Madsen, Torben Skov Nielsen, Jake Badger, Gregor Giebel, Lars Landberg, Kai Sattler, and Henrik Feddersen. Comparison of ensemble forecasts with the measurements from the meteorological mast at Risø National Laboratory. Technical report, Informatics and Mathematical Modelling, 2004. Prepared under PSO-project FU2101.
- [35] Henrik Aalborg Nielsen and Henrik Madsen. Modelling the heat consumption in district heating systems using a grey-box approach. In *Proceedings of the International Workshop on Dynamic Analysis Methods Applied to Energy Performance Assessment of Buildings*, Warsaw, Polen, May 2004. <http://www.paslink.org>.
- [36] G. Giebel, J. Badger, L. Landberg, H.Aa. Nielsen, H. Madsen, K. Sattler, and H. Feddersen. Wind power forecasting using ensembles. In *Proceedings of the 2004 Global Windpower Conference and Exhibition*, Chicago, Illinois, USA, March 2004. <http://www.awea.org>.
- [37] C. W. Tornøe, H. Agersø, H. A. Nielsen, H. Madsen, and E. N. Jonsson. Population PK/PD modelling framework for systematic model improvement. In *Rosenön meeting, Stockholm*, 2004.

- [38] C. W. Tornøe, H. Agersø, R. V. Overgaard, H. A. Nielsen, H. Madsen, and E. N. Jonsson. Stochastic differential equation in NONMEM. In *PAGE meeting, Uppsala*, 2004.
- [39] C. W. Tornøe, H. Agersø, R. V. Overgaard, H. A. Nielsen, H. Madsen, and E. N. Jonsson. Stochastic differential equation in NONMEM: A diagnostic tool for pinpointing model deficiencies. In *ECPAG meeting, Rockville*, 2004.
- [40] Christoffer W. Tornøe, Henrik Agersø, Henrik Aa. Nielsen, Henrik Madsen, and E. Niclas Jonsson. Population pharmacokinetic modelling of a subcutaneous depot for GnRH antagonist Degarelix. *Pharmaceutical Research*, 21(4):574–584, 2004.
- [41] Christoffer W. Tornøe, Henrik Agersø, E. Niclas Jonsson, Henrik Madsen, and Henrik A. Nielsen. Non-linear mixed-effects pharmacokinetic/pharmacodynamic modelling in NLME using differential equations. *Computer Methods and Programs in Biomedicine*, 76(1):31–40, 2004.
- [42] C. W. Tornøe, H. Agersø, H. A. Nielsen, H. Madsen, and E. N. Jonsson. Population pharmacokinetic modelling of a subcutaneous depot for gnrh antagonist degarelix. In *PAGE meeting, Verona, June*, 2003.
- [43] C. W. Tornøe, H. Agersø, H. A. Nielsen, H. Madsen, and E. N. Jonsson. Non-linear mixed-effects models in NLME with differential equations. In *PAGE meeting, Verona*, 2003.
- [44] Lars Landberg, Gregor Giebel, Henrik Aalborg Nielsen, Torben Nielsen, and Henrik Madsen. Short-term prediction – an overview. *Wind Energy*, 6:273–280, 2003.
- [45] Jan Holst, Erik Lindström, Henrik Madsen, and Henrik Aalborg Nielsen. Model validation in non-linear continuous-discrete grey-box models. In *Proceedings of the 13th IFAC Symposium on System Identification*, Rotterdam, The Netherlands, August 27–29 2003.
- [46] Henrik Aalborg Nielsen and Henrik Madsen. Teksturdata til beregning af friktionsværdier – anvendelse på vejoverflader? Technical Report 124, Vejteknisk Institut, Vejdirektoratet, 2003. <http://www.vd.dk/wimpdoc.asp?page=document&objno=71776>.

- [47] Henrik Aalborg Nielsen and Henrik Madsen. Kalibrering af COD-sensor (BioView) placeret i indløb til rensesanlæg. Technical report, Informatik og Matematisk Modellering, Danmarks Tekniske Universitet, Lyngby, 2003. Udarbejdet under Center for Vandkvalitetssensorer, VAKS / Flc-04g.
- [48] Henrik Aalborg Nielsen and Henrik Madsen. Fluorescens-spektre målt vha. BioView i indløbet på rensningsanlæg. Technical report, Informatik og Matematisk Modellering, Danmarks Tekniske Universitet, Lyngby, 2003. Udarbejdet under Center for Vandkvalitetssensorer, VAKS / Flc-04e.
- [49] Henrik Aalborg Nielsen and Henrik Madsen. Adaptiv kalibrering af COD-sensor baseret på fluorescens-spektre. Technical report, Informatik og Matematisk Modellering, Danmarks Tekniske Universitet, Lyngby, 2003. Udarbejdet under Center for Vandkvalitetssensorer, VAKS / Flc-04f.
- [50] Torben Skov Nielsen, Henrik Aalborg Nielsen, and Henrik Madsen. Prediction of wind power using time-varying coefficient-functions. In *Proceedings of the XV IFAC World Congress*, Barcelona, 2002.
- [51] Torben Skov Nielsen, Henrik Madsen, Henrik Aalborg Nielsen, Gregor Giebel, and Lars Landberg. Prediction of regional wind power. In *Proceedings of the 2002 Global Windpower Conference*, Paris, France, 2002.
- [52] K. K. Andersen, H. Madsen, and H. A. Nielsen. Optimal control of micro CHP. In *System and Simulations in Buildings*, Liege, Belgium, 2002.
- [53] Henrik Aalborg Nielsen and Henrik Madsen. Analyse og simulering af prædiktionsfejl for vindenergiproduktion ved indmelding til Nord-Pool. Technical report, Informatik og Matematisk Modellering, Danmarks Tekniske Universitet, Lyngby, 2002. I samarbejde med Eltra a.m.b.a.
- [54] Henrik Aalborg Nielsen and Henrik Madsen. Anvendelse af teksturdata til beregning af friktionsværdier for vejbelægninger. Technical report, Informatik og Matematisk Modellering, Danmarks Tekniske Universitet, Lyngby, 2002. I samarbejde med Vejteknisk Institut.

- [55] Henrik Aalborg Nielsen, Torben Skov Nielsen, and Henrik Madsen. On on-line systems for short-term forecasting for energy systems. In *Proceedings of the OR 2002 conference*, pages 265–271, Klagenfurt, Austria, 2002. Springer.
- [56] Henrik Aalborg Nielsen, Torben Skov Nielsen, and Henrik Madsen. Using meteorological forecasts for short term wind power forecasting. In *Proceedings of the IEA R&D Wind Annex XI Joint Action Symposium on Wind Forecasting Techniques*, pages 49–58, Norrköping, Sweden, December 3–4 2002.
- [57] Henrik Aalborg Nielsen. Nøjagtighedens afhængighed af stikprøvestørrelse ved måling af COD i indløbet på rensningsanlæg på basis af fluorescens-spektre fra BioView. Technical report, Informatik og Matematisk Modellering, Danmarks Tekniske Universitet, Lyngby, 2002. Udarbejdet under Center for Vandkvalitetssensorer, VAKS / Flc-04c.
- [58] T. S. Nielsen, H. Madsen, H. Aa. Nielsen, L. Landberg, and G. Giebel. Zephyr – the prediction models. In *Proceedings of the European Wind Energy Conference*, pages 868 – 871, Copenhagen, Denmark, 2001. WIP-Renewable Energies.
- [59] H. Madsen, T. S. Nielsen, and H. Aa. Nielsen. Intelligent control. *Danish Board of District Heating – News from DBDH*, 3:14–16, 2001.
- [60] Henrik Aalborg Nielsen, Michael Rasmussen, and Henrik Madsen. Calibration with near-continuous spectral measurements. In Niels-Erik Jensen & Peter Linde, editor, *23. Symposium i anvendt statistik*, Københavns Universitet, January 2001.
- [61] Henrik Aalborg Nielsen, Michael Rasmussen, and Henrik Madsen. Spectral transformation and range-selection in multivariate calibration. In *7th Scandinavian Symposium on Chemometrics – Book of Abstracts*, page A69, Copenhagen, August 19 – 23 2001.
- [62] Stefán Stefánsson and Henrik Aalborg Nielsen. Forudsigelse af PAX på routingniveau – historiske prognoser. Technical report, Informatik og Matematisk Modellering, Danmarks Tekniske Universitet, Lyngby, 2001. Fortrolig.

- [63] Henrik Aalborg Nielsen and Henrik Madsen. A generalization of some classical time series tools. *Computational Statistics and Data Analysis*, 37(1):13–31, 2001.
- [64] Henrik Aalborg Nielsen and Henrik Madsen. Måling af COD i indløbet på rensningsanlæg på basis af fluorescens-spektre fra BioView. Technical report, Informatik og Matematisk Modellering, Danmarks Tekniske Universitet, Lyngby, 2001. Udarbejdet under Center for Vandkvalitetssensorer, VAKS / Flc-04b.
- [65] H. Madsen, T. S. Nielsen, H. Aa. Nielsen, L. Landberg, and G. Geibel. Zephyr and short-term wind power prediction models. In *Wind power for the 21st century*, Kassel, September 2000.
- [66] Henrik Madsen, Torben Skov Nielsen, Henrik Aalborg Nielsen, and Lars Landberg. Short-term prediction of wind farm electricity production. In *European Congress on Computational Methods in Applied Sciences and Engineering*, Barcelona, 11–14 September 2000.
- [67] Henrik Aalborg Nielsen, Henrik Madsen, and Torben Skov Nielsen. *Load scheduling for decentralized CHP plants*. Department of Mathematical Modelling, Technical University of Denmark, DK-2800 Lyngby, Denmark, 2000. ENS. J. Nr. 1323/98-0025.
- [68] Henrik Aalborg Nielsen and Henrik Madsen. *Predicting the Heat Consumption in District Heating Systems using Meteorological Forecasts*. Department of Mathematical Modelling, Technical University of Denmark, DK-2800 Lyngby, Denmark, 2000. ENS. J. Nr. 1323/98-0025.
- [69] Henrik Aalborg Nielsen, Torben Skov Nielsen, Alfred Karsten Joensen, Henrik Madsen, and Jan Holst. Tracking time-varying coefficient-functions. *Int. J. of Adaptive Control and Signal Processing*, 14(8):813–828, 2000.
- [70] Alfred Karsten Joensen, Henrik Aalborg Nielsen, Torben Skov Nielsen, and Henrik Madsen. Tracking time-varying parameters with local regression. *Automatica*, 36(8):1199–1204, 2000.
- [71] Henrik Aalborg Nielsen and Torben Skov Nielsen. Chapter 5: Estimation methods. In Torben Skov Nielsen, editor, *Using Meteorological*

Forecasts in On-line Predictions of Wind Power. Eltra, DK-7000 Fredericia, Denmark, 1999. ISBN: 87-90707-18-4.

- [72] Payman Sadegh, Henrik Aalborg Nielsen, and Henrik Madsen. A semi-parametric approach for decomposition of absorption spectra in the presence of unknown components. Technical Report 17, Department of Mathematical Modelling, Technical University of Denmark, DK-2800 Lyngby, Denmark, 1999.
- [73] Henrik Aalborg Nielsen, Torben Skov Nielsen, Alfred Karsten Joensen, Henrik Madsen, and Jan Holst. Tracking time-varying coefficient-functions. Technical Report 9, Department of Mathematical Modelling, Technical University of Denmark, DK-2800 Lyngby, Denmark, 1999.
- [74] Henrik Aalborg Nielsen. *Parametric and Non-Parametric System Modelling*. PhD thesis, Department of Mathematical Modelling, Technical University of Denmark, Lyngby, 1999.
- [75] Jakob Bak, Henrik Aalborg Nielsen, and Henrik Madsen. Goodness of fit of stochastic differential equations. In Peter Linde & Anders Holm, editor, *21. Symposium i anvendt statistik*, Handelshøjskolen, København, January 1999.
- [76] A. K. Joensen, G. Giebel, L. Landberg, H. Madsen, and H. Aa. Nielsen. Model output statistics applied to wind power prediction. In *Wind Energy for the Next Millenium*, European Wind Energy Conference, pages 1177–1180, Nice, France, 1–5 March 1999.
- [77] Henrik Aalborg Nielsen and Henrik Madsen. Some tools for identification of nonlinear time series. Technical Report 16, Department of Mathematical Modelling, Technical University of Denmark, DK-2800 Lyngby, Denmark, 1998.
- [78] Henrik Aalborg Nielsen, Klaus Kaae Andersen, and Henrik Madsen. Empirisk bestemt model for elforbruget i Østdanmark. Teknisk rapport nr. 18, Institut for Matematisk Modellering, Danmarks Tekniske Universitet, Lyngby, 1998. 12 sider.
- [79] Henrik Aalborg Nielsen and Henrik Madsen. SAS-makroer til estimation og prædiktion i elforbrugsmodel. Teknisk rapport nr. 19, Institut for

Matematisk Modelling, Danmarks Tekniske Universitet, Lyngby, 1998. 33 sider.

- [80] Henrik Aalborg Nielsen. LFLM version 1.0, an S-PLUS / R library for locally weighted fitting of linear models. Technical Report 22, Department of Mathematical Modelling, Technical University of Denmark, DK-2800 Lyngby, Denmark, 1997.
- [81] Henrik Aalborg Nielsen, Torben Skov Nielsen, and Henrik Madsen. ARX-models with parameter variations estimated by local fitting. In Yoshikazu Sawaragi and Setsuo Sagara, editors, *11th IFAC Symposium on System Identification*, volume 2, pages 475–480, 1997.
- [82] Henrik Aalborg Nielsen, Torben Skov Nielsen, and Henrik Madsen. Local fitting of autoregressive models with external input. In Helle Holst, Lisbeth La Cour, and Agnar Høskuldsson, editors, *Symposium i anvendt statistik*, pages 175–188, DTU, January 1997.
- [83] Henrik Aalborg Nielsen and Henrik Madsen. *Development of methods for evaluation of electricity savings and load levelling Measures, Part 3: Experimental Assessment of the Effect of a Power Conservation Campaign*. Department of Mathematical Modelling, Technical University of Denmark, DK-2800 Lyngby, Denmark in collaboration with NES A/S, DK-2900 Hellerup, Denmark, december 1997. EFP95/1753/95-0001, 94 pages.
- [84] Henrik Aalborg Nielsen and Henrik Madsen. *Development of methods for evaluation of electricity savings and load levelling Measures, Part 1: Aggregated Power Consumption Models for the Eastern Part of Denmark*. Department of Mathematical Modelling, Technical University of Denmark, DK-2800 Lyngby, Denmark in collaboration with NES A/S, DK-2900 Hellerup, Denmark, january 1997. EFP95/1753/95-0001, 122 pages.
- [85] Anne Mette Espensen, Willy Bergstrøm, Henrik Madsen, and Henrik Aalborg Nielsen. Implementation of mini CHP. In Ólafur Pétur Pálsson, editor, *International Symposium on District Heating and Simulation*, Reykjavík, Iceland, August 1997.

- [86] Henrik Aalborg Nielsen, Henrik Madsen, and Torben Skov Nielsen. Conditionally parametric ARX-models for modelling time delays in district heating systems. In Ólafur Pétur Pálsson, editor, *International Symposium on District Heating and Simulation*, Reykjavík, Iceland, August 1997.
- [87] Lars Henrik Hansen, Judith L. Jacobsen, Henrik Aalborg Nielsen, and Torben Skov Nielsen. Approximating building components using stochastic differential equations. In J. J. Bloem, editor, *System Identification Competition*, pages 149–162. Joint Research Centre, European Commission, 1996. EUR 16359 EN.
- [88] Henrik Aalborg Nielsen. Notat om gruppering af transformerudføringer med henblik på udførelse af forsøg. Institut for Matematisk Modellering, Danmarks Tekniske Universitet, Lyngby, 1996. 10 sider.
- [89] Henrik Aalborg Nielsen and Henrik Madsen. Neural networks for wind power prediction. In Henrik Madsen, editor, *Models and Methods for Predicting Wind Power*, pages 51–58. ELSAM, Skærbæk, Denmark, 1996. ISBN 87-87090-29-5.
- [90] Henrik Aalborg Nielsen and Henrik Madsen. Wind power prediction using ARX models and neural networks. In M. H. Hamza, editor, *Proceedings of the Fifteenth IASTED International Conference on Modelling, Identification and Control*, pages 310–313, Anaheim * Calgary * Zurich, February 1996. IASTED, ACTA PRESS. ISBN 0-88986-193-5.
- [91] Henrik Aalborg Nielsen. Adaptive recursive least squares estimation (section 4.5.1). In Henrik Madsen, editor, *Models and Methods for Predicting Wind Power*, pages 38–40. ELSAM, Skærbæk, Denmark, 1996.
- [92] Henrik Aalborg Nielsen and Henrik Madsen. Adaptive recursive least squares algorithm used in wind power prediction tool. Department of Mathematical Modelling, Technical University of Denmark, DK-2800 Lyngby, Denmark, 1995. 7 pages.
- [93] Henrik Aalborg Nielsen and Henrik Madsen. Off-line wind power prediction tool, version 1.0 – users manual. Department of Mathematical Modelling, Technical University of Denmark, DK-2800 Lyngby, Denmark, 1995. 14 pages.

- [94] Henrik Aalborg Nielsen and Henrik Madsen. Neural networks for wind power prediction. In Henrik Madsen, editor, *Wind Power Prediction Tool in Central Dispatch Centres*, pages 59–73. ELSAM, Skærbæk, Denmark, 1995. ISBN 87-87090-25-2.
- [95] Henrik Aalborg Nielsen and Henrik Madsen. Model for brændselsforbrug og elproduktion på Korsør kraftvarmeværk, appendiks B i Kostægte Fjernvarmetariffer – Load Management i Fjernvarmenet – Matematisk Model. Birch & Krogboe A/S, Teknikerbyen 34, DK-2830 Virum, 1995. ISBN 87-88110-05-2.
- [96] Henrik Aalborg Nielsen and Henrik Madsen. Model for brændselsforbrug og elproduktion på Korsør kraftvarmeværk. Institut for Matematisk Modellering, Danmarks Tekniske Universitet, Lyngby, 1995. 60 sider.
- [97] J. Holst, B. Lindblad, D. Bergqvist, K. Garre, H. Aa. Nielsen, U. Hedner, and P. B. Østergaard. Protamine neutralization of intravenous and subcutaneous LMWH (tinzaparin, Logiparin®). An experimental investigation in healthy volunteers. *Blood, Coagulation, and Fibrinolysis*, 5(5):795–803, 1994.
- [98] Henrik Aalborg Nielsen. Driftmæssig optimering af energiproduktion på kraftvarmeværk med akkumulatortank. In Bo Leckner, editor, *Optimeringsmetoder för korttidsplanering av fjärrvärmeproduktion*, Göteborg, Maj 1991. Chalmers Tekniska Högskola.