Dynamical Systems - Publications - DTU Orbit (08/04/2018)


Hedlund, FH 2017, 'Blygsamt övertyck fick spektakulära följder' Kemivärlden Biotech med Kemisk Tidsskrift, no. 2, pp. 21-23.


Christiansen, LE & True, H 2017, 'Dynamics of a railway vehicle on a laterally disturbed track' Vehicle System Dynamics, pp. 1-32. DOI: 10.1080/00423114.2017.1372584


Hedlund, FH 2017, 'Explosion i rötkammare med biogas' Kemivärlden Biotech med Kemisk Tidsskrift, no. 4, pp. 20-23.


Oland, E, Bossolini, E, Nielsen, OW, Sørensen, MP & Veje, C 2017, Modelling the thermal properties of large diameter fibre ropes. in Proceedings of the 2017 Oipeec Conference - Rope - Present and Future.


Ranjjan, A, Wendt, SL, Schmidt, S, Madsbad, S, Holst, JJ, Madsen, H, Knudsen, CB, Jørgensen, JB & Nørgaard, K 2017, 'Relationship between Optimum Mini-doses of Glucagon and Insulin Levels when Treating Mild Hypoglycaemia in Patients with Type 1 Diabetes - A Simulation Study' Basic & Clinical Pharmacology & Toxicology, pp. n/a-n/a. DOI: 10.1111/bcpt.12907


Cali, D, Bachalarz, M, Bacher, P, Madsen, H, Lex, SW & Koed Rasmussen, M 2017, skoleklima.dk – A platform to monitor air quality and thermal comfort in classrooms, developed for teachers and students. in Book of Abstracts, Sustain 2017., S-4, Technical University of Denmark (DTU).


Christiansen, LE & True, H 2017, 'Warum ist es so schwierig, die lateralen Gleisstörungen durch Messungen der Fahrzeugdynamik zu bestimmen' ZEV rail, pp. 133 -139.


Sekunda, AK, Niemann, HH & Poulsen, NK 2016, Active Fault Detection Based on a Statistical Test. in Proceedings of 3rd Conference on Control and Fault-Tolerant Systems. IEEE, pp. 511-18. DOI: 10.1109/SYSTOL.2016.7739800

Kirkeby, CT, Græsbøll, K, Nielsen, SS, Christiansen, LE, Toft, N & Hisham Beshara Halasa, T 2016, 'Adaptive Test Schemes for Control of Paratuberculosis in Dairy Cows' P L o S One, vol 11, no. 12, e0167219. DOI: 10.1371/journal.pone.0167219


Gussmann, MK, Kirkeby, CT, Græsbøll, K, Christiansen, LE, Nielsen, SS, Toft, N & Hisham Beshara Halasa, T 2016, 'A herd- and cow-specific decision support tool for control of mastitis' SVEPM, Elsinore, Denmark, 16/03/2016 - 18/03/2016.


Ronne Rasmussen, A, Sørensen, MP, Gaididei, YB & Christiansen, PL 2016, 'Compound waves in a higher order nonlinear model of thermoviscous fluids' Mathematics and Computers in Simulation, vol 127, pp. 236-251. DOI: 10.1016/j.matcom.2014.01.009


Niemann, HH, Mirzaei, M, Henriksen, LC & Poulsen, NK 2016, Diagnosis of wind turbine rotor system. in Proceedings of the American Control Conference (ACC 2016). IEEE, pp. 3170-3175. DOI: 10.1109/ACC.2016.7525405


Heilmann, ILT, Starke, J, Andersen, KH, Thygesen, UH & Sørensen, MP 2016, 'Dynamics of a physiologically structured population in a time-varying environment' Ecological Complexity, vol 28, pp. 54-61. DOI: 10.1016/j.ecocom.2016.10.004


Hedlund, FH 2016, 'Er sprængpladen vendt korrekt?' *Dansk Kemi*, vol 97, no. 5, pp. 41-42.


Delikaraoglou, S, Morales González, JM & Pinson, P 2016, 'Impact of Inter- and Intra-Regional Coordination in Markets With a Large Renewable Component' *IEEE Transactions on Power Systems*, vol 31, no. 6, pp. 5061-5070. DOI: 10.1109/TPWRS.2016.2530981


Petersen, LN, Poulsen, NK, Niemann, HH, Utzen, C & Jørgensen, JB 2016, Industrial application of model predictive control to a milk powder spray drying plant. in *Proceedings of the 15th annual European Control Conference (ECC '16)*. IEEE, pp. 1038-1044. DOI: 10.1109/ECC.2016.7810426


Hedlund, FH 2016, 'Kronik: Virksomheder med elitesmiley flyver under radaren' *Ingenioeren*, no. 27.05.2016, pp. 6.

Hedlund, FH, Selig, RS & Kragh,EK 2016, 'Large Steel Tank Fails and Rockets to Height of 30 meters - Rupture Disc Installed Incorrectly' *Safety and Health at Work*, vol 7, no. 2, pp. 130-137. DOI: 10.1016/j.shaw.2015.11.004


Wendt, SL, Boye Knudsen, C, Jørgensen, JB, Madsen, H & Haidar, A 2016, 'Modelling the glucose-insulin-glucagon dynamics after subcutaneous administration of native glucagon and a novel glucagon analogue in dogs' 9th International Conference on Advanced Technologies and Treatments for Diabetes (ATTD 2016), Milan, Italy, 03/02/2016 - 06/02/2016,

Wendt, SL, Boye Knudsen, C, Jørgensen, JB, Madsen, H & Haidar, A 2016, 'Modelling the glucose-insulin-glucagon dynamics after subcutaneous administration of native glucagon and a novel glucagon analogue in dogs' 9th International Conference on Advanced Technologies and Treatments for Diabetes (ATTD 2016), Milan, Italy, 03/02/2016 - 06/02/2016,


Pedersen, EB, Herbertsson, HR, Niemann, H, Poulsen, NK & Falk, AKV 2016, 'Model Predictive Control of Sewer Networks' Journal of Physics: Conference Series (Online), vol 783, 012026. DOI: 10.1088/1742-6596/783/1/012026


Baunsgaard, KMH, Ravn, O, Kallesen, CS & Poulsen, NK 2016, MPC control of water supply networks. in Proceedings of the 15th annual European Control Conference (ECC '16). IEEE, pp. 1770-1775. DOI: 10.1109/ECC.2016.7810547

Bacher, P, de Saint-Aubain, PA, Christiansen, LE & Madsen, H 2016, 'Non-parametric method for separating domestic hot water heating spikes and space heating' *Energy and Buildings*, vol 130, pp. 107-112. DOI: 10.1016/j.enbuild.2016.08.037


Gaididei, Y, Rasmussen, AR, Christiansen, PL & Sørensen, MP 2016, 'Oscillating nonlinear acoustic shock waves' *Evolution Equations and Control Theory (Online)*, vol 5, no. 3, pp. 367-381. DOI: 10.3934/eect.2016009


Ordoudis, C, Pinson, P & Morales González, JM 2016, 'Stochastic Integrated Market for Electric Power and Natural Gas Systems' 3rd General Consortium Meeting of the CITIES project, Lyngby, Denmark, 24/05/2016 - 25/05/2016


Sørensen, MP, Pedersen, NF & Ögren, M 2016, 'The dynamics of magnetic vortices in type II superconductors with pinning sites studied by the time dependent Ginzburg–Landau modell' Physica C: Superconductivity and its Applications, vol 533, pp. 40–43. DOI: 10.1016/j.physc.2016.08.001

Gaiarin, S, Da Ros, F, Sørensen, MP & Zibar, D 2016, Tolerance of continuous NFT spectrum to the optical fiber channel impairments. in Advanced Photonics Congress 2016., SpM3E.5, Optical Society of America (OSA). DOI: 10.1364/SPPCOM.2016.SpM3E.5

Boiroux, D, Aradóttir, TB, Hagdrup, M, Poulsen, NK, Madsen, H & Jørgensen, JB 2015, 'A Bolus Calculator Based on Continuous-Discrete Unscented Kalman Filtering for Type 1 Diabetics' IFAC Workshop Series, vol 48, no. 20, pp. 159-164. DOI: 10.1016/j.ifacol.2015.10.132


Schmidt, S, Boiroux, D, Ranjan, A, Jørgensen, JB, Madsen, H & Nørgaard, K 2015, 'An artificial pancreas for automated blood glucose control in patients with Type 1 diabetes' Therapeutic Delivery, vol 6, no. 5, pp. 211-221. DOI: 10.4155/tde.15.12


Bergami, L & Poulsen, NK 2015, 'A smart rotor configuration with linear quadratic control of adaptive trailing edge flaps for active load alleviation' Wind Energy, vol 18, no. 4, pp. 625-641. DOI: 10.1002/we.1716


Græsbøll, K, Kirkeby, C, Nielsen, SS & Christiansen, LE 2015, 'Danish holsteins favor bull offspring: Biased Milk Production as a Function of Fetal Sex, and Calving Difficulty' PLoS One, vol 10, no. 4, e0124051. DOI: 10.1371/journal.pone.0124051


Schilder, F, Bureau, E, Santos, IF, Thomsen, JJ & Starke, J 2015, 'Experimental bifurcation analysis—Continuation for noise-contaminated zero problems' Journal of Sound and Vibration, vol 358, pp. 251-266. DOI: 10.1016/j.jsv.2015.08.008

Giebel, G, Göçmen Bozkurt, T, Sørensen, PE, Réthoré, P-E, Poulsen, NK, Mirzaei, M, Skjelmose, MR & Kristoffersen, JR 2015, 'Experimental verification of a real-time power curve for down-regulated offshore wind power plants' EWEA Offshore 2015 Conference, Copenhagen, Denmark, 10/03/2015 - 12/03/2015


Mirzaei, M, Göçmen Bozkurt, T, Giebel, G, Sørensen, PE & Poulsen, NK 2015, Turbine Control Strategies for Wind Farm Power Optimization. in Proceedings of 2015 American Control Conference. IEEE, pp. 1709 - 1714. DOI: 10.1109/ACC.2015.7170979


Sørensen, KL, Galeazzi, R, Odgaard, PF, Niemann, HH & Poulsen, NK 2014, Adaptive Passivity Based Individual Pitch Control for Wind Turbines in the Full Load Region. in Proceedings of the 2014 American Control Conference. IEEE, pp. 554-559. DOI: 10.1109/ACC.2014.6858651


Petersen, LN, Poulsen, NK, Nielsen, HH, Utzen, C & Jørgensen, JB 2014, Application of Constrained Linear MPC to a Spray Dryer. in Proceedings of the IEEE Conference on Control Applications (CCA), 2014. IEEE, pp. 2120-2126. DOI: 10.1109/CCA.2014.6981816


Boiroux, D, Duun-Henriksen, AK, Schmidt, S, Nørgaard, K, Poulsen, NK, Madsen, H & Jørgensen, JB 2014, Assessment of Model Predictive and Adaptive Glucose Control Strategies for People with Type 1 Diabetes. in Preprints of the 19th World Congress The International Federation of Automatic Control (IFAC 2014), pp. 231-236.


Mirzaei, M, Soltani, M, Poulsen, NK & Niemann, HH 2014, Model based active power control of a wind turbine. in Proceedings of the American Control Conference. IEEE, pp. 5037-5042. DOI: 10.1109/ACC.2014.6859055


Göçmen Bozkurt, T, Giebel, G, Poulsen, NK & Mirzaei, M 2014, 'Wind Speed Estimation and Parameterization of Wake Models for Downregulated Offshore Wind Farms' European Wind Energy Conference & Exhibition 2014, Barcelona, Spain, 10/03/2014 - 13/03/2014,

Göçmen Bozkurt, T, Giebel, G, Poulsen, NK & Mirzaei, M 2014, 'Wind Speed Estimation and Parameterization of Wake Models for Downregulated Offshore Wind Farms within the scope of PossPOW Project' *Journal of Physics: Conference Series (Online)*, vol 524, no. 1, 012156. DOI: 10.1088/1742-6596/524/1/012156

Hansen, VL & Hjorth, PG 2013, 'Abelpris til Pierre Deligne for banebrydende matematisk rapsodi om de algebraiske ligningers geometri' *Aktuel Naturvidenskab*, vol 2013, no. 6, pp. 47-49.


Andersen, PHD, Rode, C & Madsen, H 2013, 'An arctic low-energy house as experimental setup for studies of heat dynamics of buildings' *Frontiers of Architectural Research*, vol 2, no. 4, pp. 488-499. DOI: 10.1016/j.foar.2013.08.003

Mirzaei, M, Soltani, M, Poulsen, NK & Niemann, HH 2013, An MPC approach to individual pitch control of wind turbines using uncertain LIDAR measurements. in *2013 European Control Conference (ECC)*. IEEE, pp. 490-495.


Zermeno, VMR, Abrahamsen, AB, Mijatovic, N, Jensen, BB & Sørensen, MP 2013, 'Calculation of alternating current losses in stacks and coils made of second generation high temperature superconducting tapes for large scale applications ' *Journal of Applied Physics*, vol 114, no. 17, pp. 173901. DOI: 10.1063/1.4827375
Wind-Willassen, Ø, Moláček, J, Harris, DM & Bush, JWM 2013, 'Exotic states of bouncing and walking droplets' *Physics of Fluids*, vol 25, no. 8, 082002. DOI: 10.1063/1.4817612


Jönsson, T, Pinson, P, Nielsen, HA, Madsen, H & Nielsen, TS 2013, 'Forecasting Electricity Spot Prices Accounting for Wind Power Predictions' *IEEE Transactions on Sustainable Energy*, vol 4, no. 1, pp. 210-218. DOI: 10.1109/TSTE.2012.2212731

Castaignet, D, Couchman, I, Poulsen, NK, Buhl, T & Wedel-Heinen, JJ 2013, 'Frequency-Weighted Model Predictive Control of Trailing Edge Flaps on a Wind Turbine Blade' *IEEE Transactions on Control Systems Technology*, vol 21, no. 4, pp. 1105-1116. DOI: 10.1109/TCST.2013.2260750


Mirzaei, M, Soltani, M, Poulsen, NK & Niemann, HH 2013, Model Predictive Control of Wind Turbines using Uncertain LIDAR Measurements. in *2013 American Control Conference (ACC)*. IEEE, pp. 2235-2240 . American Control Conference


Bacher, P, Madsen, H & Nielsen, HA 2013, Online load forecasting for supermarket refrigeration. in 2013 4th IEEE/PES Innovative Smart Grid Technologies Europe (ISGT EUROPE). IEEE. DOI: 10.1109/ISGTEurope.2013.6695467


Göçmen, T, Giebel, G, Sørensen, PE & Mirzaei, M 2013, 'PossPOW: Possible Power of Downregulated Offshore Wind Power Plants' EWEA Offshore 2013, Frankfurt, Germany, 19/11/2013 - 21/11/2013,


Barahona Garzón, B, Cutululis, NA, Trombe, P-J & Pinson, P 2013, Regime-based supervisory control to reduce power fluctuations from offshore wind power plants. in 2013 IEEE Grenoble PowerTech (POWERTECH). IEEE. DOI: 10.1109/PTC.2013.6652369


Boklund, A, Christiansen, LE, Hisham Beshara Halasa, T & Enæe, C 2013, 'Simulated effects of changes in herd sizes and densities with regard to fmd outbreaks in Denmark' SVEPM Annual Meeting 2013, Madrid, Spain, 20/03/2013 - 22/03/2013,


Hjorth, PG & Karamehmedovic, M 2013, 'Sizing of Microparticles from Angular Scattering Ratio' Paper presented at Foodtech Bazar, Roskilde, Denmark, 30/10/2013,


Löwe, R, Vezzaro, L, Grum, M, Mikkelsen, PS & Madsen, H 2013, 'Stochastic runoff forecasting and real time control of urban drainage systems' 7th Annual Meeting of the Danish Water Research and Innovation Platform, Kgs. Lyngby, Denmark, 31/01/2013 - 31/01/2013,

Stochastic runoff forecasting and real time control of urban drainage systems, Löwe, R, Vezzaro, L, Grum, M, Mikkelsen, PS & Madsen, H Stochastic runoff forecasting and real time control of urban drainage systems. 2D/3D (physical products).


Petersen, LN, Poulsen, NK, Niemann, HH, Utzen, C & Jørgensen, JB 2013, 'The Potential of Economic Model Predictive Control for Spray Drying Plants' 18th Nordic Process Control Workshop, Oulu, Finland, 22/08/2013 - 23/08/2013,

Græsbøll, K, Kirkeby, C, Bødker, R, Stockmarr, A, Christiansen, LE & Lind, P 2013, 'The range of attraction for light traps catching Culicoides biting midges' EDENext Annual Meeting, Barcelona, Spain, 19/03/2013 - 22/03/2013,


Trombe, P-J, Pinson, P, Vedel, H, Barahona Garzón, B & Madsen, H 2013, 'Weather radars for wind energy applications' Danish Wind Power Research 2013, Fredericia, Denmark, 27/05/2013 - 28/05/2013,


Mirzaei, M, Poulsen, NK & Niemann, HH 2012, 'Designing Trailing Edge Flaps of Wind Turbines using an Integrated Design Approach' Paper presented at 10th European Workshop on Advanced Control and Diagnosis, Kgs. Lyngby, Denmark, 08/11/2012 - 09/11/2012,

Rosgaard, MH, Hahmann, AN, Nielsen, TS, Madsen, H, Giebel, G & Sørensen, PE 2012, 'Integrated Wind Power Planning Tool' European Geosciences Union General Assembly 2012, Vienna, Austria, 22/04/2012 - 27/04/2012,


