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## Ansættelse

### Lektor

AAU Energi  
Det Ingeniør- og Naturvidenskabelige Fakultet  
Aalborg Øst, Danmark  
15 feb. 2005 → present

### Lektor

Det Ingeniør- og Naturvidenskabelige Fakultet  
Aalborg Øst, Danmark  
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### Lektor

Esbjerg Energy Section  
Det Ingeniør- og Naturvidenskabelige Fakultet  
Esbjerg, Danmark  
15 feb. 2005 → present

### Offshore Renewable Energy Systems

Det Ingeniør- og Naturvidenskabelige Fakultet  
Esbjerg, Danmark  
1 jan. 2021 → present

### Wind Power Systems

Det Ingeniør- og Naturvidenskabelige Fakultet  
Aalborg Øst, Danmark  
1 jan. 2021 → present

## Publikationer

### A review of neighborhood level multi-carrier energy hubs—uncertainty and problem solving process

Kiani-Moghaddam, M., N. Soltani, M., Kalogirou, S., Mahian, O. & Arabkoohsar, A., 15 okt. 2023, I: Energy. 281, 25 s., 128263.

### Active Load Stabilization of Cascaded Systems in DC Microgrids Using Adaptive Parallel-Virtual-Resistance Control Scheme

Lorzadeh, O., Lorzadeh, I., N. Soltani, M., Hajizadeh, A. & Jessen, K., aug. 2023, I: IEEE Journal of Emerging and Selected Topics in Power Electronics. 11, 4, s. 3726-3737 12 s.

### Validation of a Discrete-Time-Domain Model of a High-Power Medium-Voltage Resonant Converter

Mahdzadeh Shalmaei, A. H., N. Soltani, M. & Hajizadeh, A., aug. 2023, *IEEE Press*. 6 s. (Proceedings of the IEEE Conference on Control Technology and Applications (CCTA)).

### Wind Farm Power Production and Fatigue Load Optimization Through Wake Steering

Miao, Y., N. Soltani, M. & Hajizadeh, A., aug. 2023, I: IEEE International Conference on Automation Science and Engineering. 6 s.

### **Review of floating wind turbine damping technology**

Tian, H., N. Soltani, M. & Nielsen, M. E., 15 jun. 2023, I: *Ocean Engineering*. 278, 114365, s. 1-13 13 s., 114365.

### **Variant Parameters Identification of the PEMEL Circuit Model by RMSE-Based Self-Tuning Method**

Nezhadkhatami, H., Hajizadeh, A., N. Soltani, M. & Guilbert, D., jun. 2023, *2023 IEEE 32nd International Symposium on Industrial Electronics, ISIE 2023 - Proceedings*. IEEE, (IEEE International Symposium on Industrial Electronics (ISIE)).

### **A Quadratic Boost Converter Suitable for Fuel Cell-Powered Electric Vehicles**

Mahdzadeh Shalmaei, A. H., Kashani, M., N. Soltani, M. & Hajizadeh, A., 2023, I: *IECON Proceedings (Industrial Electronics Conference)*.

### **Discrete-Time Domain Modeling of a High-Power Medium-Voltage Resonant Converter**

Mahdzadeh Shalmaei, A. H., N. Soltani, M. & Hajizadeh, A., 2023, I: *2023 25rd European Conference on Power Electronics and Applications, EPE 2023 ECCE Europe*.

### **Grey-box Modeling of Reversible Solid Oxide Cell Stack's Electrical Dynamics Based on Electrochemical Impedance Spectroscopy**

Jessen, K., N. Soltani, M., Hajizadeh, A., Jensen, S. H., Schaltz, E., Nielsen, M. N. & Smitshuysen, T. L., 2023, *2023 IEEE Conference on Control Technology and Applications (CCTA)*. IEEE Press, (Proceedings of the IEEE Conference on Control Technology and Applications (CCTA)).

### **Modeling and Control Design for a Bidirectional DC-DC Converter System for Cyclic Operation of a Reversible Solid Oxide Electrolysis Cell Stack**

Jessen, K., N. Soltani, M., Hajizadeh, A., Jensen, S. H. & Schaltz, E., 2023, I: *IECON Proceedings (Industrial Electronics Conference)*.

### **Modelling And Control Of Multi-Port DC-DC Converter For Offshore Wind-Hydrogen Energy Systems**

Farajdadian, S., Hajizadeh, A. & N. Soltani, M., 2023, *2023 IEEE 32nd International Symposium on Industrial Electronics, ISIE 2023 - Proceedings*. IEEE, (IEEE International Symposium on Industrial Electronics (ISIE)).

### **Optimization of Micro Multi-Carrier Energy Hub Operation Under Uncertain Predictions**

Kiani-Moghaddam, M., N. Soltani, M. & Arabkoohsar, A., 2023, I: *IECON Proceedings (Industrial Electronics Conference)*.

### **Sensorless Control of a Single-Phase AC-DC Boost Converter without Measuring Input Voltage and Current**

Tavan, M., Sabahi, K., Shahparasti, M., Hajizadeh, A., Soltani, M. & Savaghebi, M., 2023, I: *IEEE Access*. 11, s. 59059-59070 12 s.

### **A Machine Learning Method for Modeling Wind Farm Fatigue Load**

Miao, Y., Soltani, M. N. & Hajizadeh, A., aug. 2022, I: *Applied Sciences (Switzerland)*. 12, 15, 7392.

### **EMD/HT-based local fault detection in DC microgrid clusters**

Bayati, N., Baghaee, H. R., Savaghebi, M., Hajizadeh, A., Soltani, M. & Lin, Z., jun. 2022, I: *IET Smart Grid*. 5, 3, s. 177-188 12 s.

### **Local Fault Location in Meshed DC Microgrids Based On Parameter Estimation Technique**

Bayati, N., Baghaee, H. R., Hajizadeh, A., Soltani, M., Lin, Z. & Savaghebi, M., 1 mar. 2022, I: *IEEE Systems Journal*. 16, 1, s. 1606-1615 10 s.

### **Locating high-impedance faults in DC microgrid clusters using support vector machines**

Bayati, N., Balouji, E., Baghaee, H. R., Hajizadeh, A., Soltani, M., Lin, Z. & Savaghebi, M., feb. 2022, I: *Applied Energy*. 308, 118338.

### **Fault Analysis and Protection of Low-Voltage DC Microgrid Equipped by Renewable Energy Resources**

Bayati, N., Hajizadeh, A. & Soltani, M., 1 jan. 2022, *Research Anthology on Smart Grid and Microgrid Development*. IGI global, Bind 3. s. 978-1012 35 s.

### **System Identifications, Validation and Overall Mathematical Modeling of Small Scale Wind Turbine**

Qureshi, A. F., Hajizadeh, A. & N. Soltani, M., 1 nov. 2021, s. 1-7. 7 s.

### **DC Fault Current Analyzing, Limiting, and Clearing in DC Microgrid Clusters**

Bayati, N., Baghaee, H. R., Savaghebi, M., Hajizadeh, A., Soltani, M. N. & Lin, Z., 4 okt. 2021, I: *Energies*. 14, 19, 6337.

### **Localized Protection of Radial DC Microgrids with High Penetration of Constant Power Loads**

Bayati, N., Baghaee, H. R., Hajizadeh, A. & N. Soltani, M., sep. 2021, I: *IEEE Systems Journal*. 15, 3, s. 4145-4156 12 s.

### **Overcoming the Detectability Obstacle in Adaptive Output Feedback Control of DC-DC Boost Converter With Unknown Load**

Tavan, M., Sabahi, K., Hajizadeh, A., Soltani, M. N. & Jessen, K., sep. 2021, I: *IEEE Transactions on Control Systems Technology*. 29, 6, s. 2678 - 2686

### **Wind farm power optimization and fault ride-through under inter-turn short-circuit fault**

Ma, K., Soltani, M., Hajizadeh, A., Zhu, J. & Chen, Z., jun. 2021, I: *Energies*. 14, 11, 16 s., 3072.

### **A Localized-Protection Scheme for Ring DC Microgrids using Distribution-Sensitive Poverty Index**

Bayati, N., Aghaee, F., Hajizadeh, A., Soltani, M. & Lin, Z., 4 feb. 2021, *2021 12th Power Electronics, Drive Systems, and Technologies Conference (PEDSTC)*. IEEE Communications Society, s. 1-5 5 s. 9405880

### **Source-Side Virtual RC Damper-Based Stabilization Technique for Cascaded Systems in DC Microgrids**

Lorzadeh, O., Lorzadeh, I., Soltani, M. & Hajizadeh, A., 1 feb. 2021, I: *IEEE Transactions on Energy Conversion*. 36, 3, s. 1883-1895 13 s., 9343755.

### **Attitude stabilization of Marine Satellite Tracking Antenna using Model Predictive Control**

Wang, Y., N. Soltani, M. & Hussain, D. M. A., 2021, I: *IFAC Journal of Systems and Control*. 17, 100173.

### **Mathematical morphology-based local fault detection in DC Microgrid clusters**

Bayati, N., Baghaee, H. R., Hajizadeh, A., Soltani, M. & Lin, Z., 2021, I: *Electric Power Systems Research*. 192, 106981.

### **Output Feedback Control of DC-DC Converters with Unknown Load: An Application of II Based Filtered Transformation**

Tavan, M., Sabahi, K., Hajizadeh, A., Soltani, M. & Savaghebi, M., 2021, *60th IEEE Conference on Decision and Control, CDC 2021*. IEEE, s. 4725-4729 5 s. (Proceedings of the IEEE Conference on Decision and Control, Bind 2021-December).

### **Predictive Home Energy Management System with Photovoltaic Array, Heat Pump and Plug-in Electric Vehicle**

Yousefi, M., Hajizadeh, A., N. Soltani, M. & Hredzak, B., 2021, I: *IEEE Transactions on Industrial Informatics*. 17, 1, s. 430-440 11 s., 8982073.

### **Profit assessment of home energy management system for buildings with A-G energy labels**

Yousefi, M., Hajizadeh, A., N. Soltani, M., Hredzak, B. & Kianpoor, N., nov. 2020, I: *Applied Energy*. 277, 13 s., 115618.

### **An artificial intelligence approach to fault isolation based on sensor data in Tennessee Eastman process**

Zarch, M. G. & Soltani, M., 18 okt. 2020, *IECON 2020 : The 46th Annual Conference of the IEEE Industrial Electronics Society*. IEEE, s. 417-422 6 s. 9255330. (Proceedings of the Annual Conference of the IEEE Industrial Electronics Society).

#### **Active power optimisation for wind farms under generator inter-turn short-circuit fault**

Ma, K., N. Soltani, M., Hajizadeh, A., Zhu, J. & Chen, Z., sep. 2020, I: IET Renewable Power Generation. 14, 12, s. 2079-2088 10 s.

#### **Guest Editorial: Power quality and protection in renewable energy systems and microgrids**

Hajizadeh, A., Savaghebi, M., Guerrero, J. M., Soltani, M., Aminifar, F., Su, C. L., Hoff, B. & Lin, Z., sep. 2020, I: IET Renewable Power Generation. 14, 12, s. 2035-2036 2 s.

#### **Sensor Fault Detection for Line Regulating Converters supplying Constant Power Loads in DC Microgrids**

Jessen, K., Soltani, M. & Hajizadeh, A., sep. 2020, *2020 IEEE 11th International Symposium on Power Electronics for Distributed Generation Systems, PEDG 2020*. IEEE Signal Processing Society, s. 99-103 5 s. 9244467. (IEEE International Symposium on Power Electronics for Distributed Generation Systems (PEDG) ).

#### **A Fuse Saving Scheme for DC Microgrids with High Penetration of Renewable Energy Resources**

Bayati, N., Baghaee, H. R., Hajizadeh, A. & Soltani, M., jul. 2020, I: IEEE Access. 8, s. 137407-137417 11 s., 9149893.

#### **Blockchain-based protection schemes of DC microgrids**

Bayati, N., Hajizadeh, A. & N. Soltani, M., maj 2020, *Blockchain-Based Smart Grids*. 1 udg. Academic Press, s. 195-214 25 s.

#### **H<sub>∞</sub>-Based Robust Controller for Step-Down Non-Isolated DC/DC Converter Loaded by Constant Power Load in DC Microgrids**

Lorzadeh, O., Lorzadeh, I., N. Soltani, M. & Hajizadeh, A., maj 2020, *2020 11th International Power Electronics, Drive Systems and Technologies Conference (PEDSTC)*. IEEE, 9088490

#### **Early Detection of Coil Failure in Solenoid Valves**

Liniger, J., Stubbier, S., N. Soltani, M. & Pedersen, H. C., apr. 2020, I: IEEE - ASME Transactions on Mechatronics. 25, 2, s. 683-693 11 s., 8974206.

#### **Net-Zero Energy Buildings: Modeling, Real-Time Operation and Protection**

Kianpoor, N., Bayati, N., Yousefi, M., Hajizadeh, A. & N. Soltani, M., mar. 2020, *Food-Energy-Water Nexus Resilience and Sustainable Development: Decision-Making Methods, Planning, and Trade-Off Analysis*. 1 udg. Springer, s. 141-179 39 s.

#### **A Distribution-Sensitive Poverty Index-Based Protection Scheme for Interconnected DC Microgrids**

Bayati, N., Hajizadeh, A., N. Soltani, M. & Lin, Z., 2020, *The 15th International Conference on Developments in Power System Protection*. IET

#### **An artificial intelligence approach to fault isolation based on sensor data**

Narmak, M. G. Z. & N. Soltani, M., 2020, (Ikke-udgivet) I: Sensors.

#### **Inter-Turn Short-Circuit Fault-Ride-Through for DFIG Wind Turbines**

Ma, K., Zhu, J., N. Soltani, M., Hajizadeh, A. & Chen, Z., 2020, *The 21st IFAC World Congress*. Findeisen, R., Hirche, S., Janschek, K. & Mönnigmann, M. (red.). 2 udg. Germany: IFAC Publisher, Bind 53. s. 12757-12762 6 s. (IFAC-PapersOnLine).

#### **Fault Analysis and Protection of low-voltage DC Microgrid Equipped by Renewable Energy Resources**

Bayati, N., Hajizadeh, A. & N. Soltani, M., sep. 2019, *Handbook of Research on Recent Developments in Electrical and Mechanical Engineering*. IGI global, s. 341-375 35 s.

#### **A Comparison Study on Stochastic Modeling Methods for Home Energy Management System**

Yousefi, M., Hajizadeh, A. & N. Soltani, M., aug. 2019, I: IEEE Transactions on Industrial Informatics. 15, 8, s. 4799 - 4808 10 s.

#### **System Identification and model comparison of a Tension Leg Platform for Floating Offshore Wind Turbines**

Hansen, T., Jørgensen, M. A. B., Tran, V. R., Jessen, K. & N. Soltani, M., aug. 2019, *2019 24th International Conference on Methods and Models in Automation and Robotics, MMAR 2019*. IEEE Press, s. 410-415 6 s. 8864710

### **A Novel Active Stabilizer Method for DC/DC Power Converter Systems Feeding Constant Power Loads**

Lorzadeh, O., Lorzadeh, I., N. Soltani, M. & Hajizadeh, A., jun. 2019, *Proceedings of 2019 IEEE 28th International Symposium on Industrial Electronics (ISIE)*. IEEE Press, s. 2497-2502 6 s. 8781375. (IEEE International Symposium on Industrial Electronics (ISIE)).

### **Fractional Order Modelling of DC-DC Boost Converters**

Kianpoor, N., Yousefi, M., Bayati, N., Hajizadeh, A. & N. Soltani, M., jun. 2019, *Proceedings of 2019 IEEE 28th International Symposium on Industrial Electronics (ISIE)*. IEEE Press, s. 864-869 6 s. 8781387. (IEEE International Symposium on Industrial Electronics (ISIE)).

### **High Voltage Gain Quasi-SEPIC DC-DC Converter**

Siwakoti, Y. P., Mostaan, A., Abdelhakim, A., Davari, P., Soltani, M. N., Khan, N. H., Li, L. & Blaabjerg, F., jun. 2019, *IEEE Journal of Emerging and Selected Topics in Power Electronics*. 7, 2, s. 1243-1257 15 s., 8419732.

### **Localized Fault Protection in the DC Microgrids with Ring Configuration**

Bayati, N., Hajizadeh, A. & N. Soltani, M., jun. 2019, *Proceedings of 2019 IEEE 28th International Symposium on Industrial Electronics (ISIE)*. IEEE Press, s. 136-140 5 s. 8781176. (IEEE International Symposium on Industrial Electronics (ISIE)).

### **Smart Energy Management System for Residential Homes Regarding Uncertainties of Photovoltaic Array and Plug-in Electric Vehicle**

Yousefi, M., Kianpoor, N., Hajizadeh, A. & N. Soltani, M., jun. 2019, *Proceedings of 2019 IEEE 28th International Symposium on Industrial Electronics (ISIE)*. IEEE Press, s. 2201-2206 6 s. 8781471. (IEEE International Symposium on Industrial Electronics (ISIE)).

### **Stochastic Smart Charging of Electric Vehicles for Residential Homes with PV Integration**

Yousefi, M., Kianpoor, N., Hajizadeh, A. & N. Soltani, M., 23 apr. 2019, *Proceedings of 2019 10th International Power Electronics, Drive Systems and Technologies Conference (PEDSTC)*. IEEE Press, s. 377-382 6 s. 8697231

### **Experimental Validation of Aero-Hydro-Servo-Elastic Models of a Scaled Floating Offshore Wind Turbine**

Jessen, K., Laugesen, K., Mortensen, S. M., Kirkegaard Jensen, J. & N. Soltani, M., mar. 2019, *Applied Sciences*. 9, 6, 28 s., 1244.

### **Optimal Power Dispatch of an Offshore Wind Farm under Generator Fault**

Ma, K., Zhu, J., N. Soltani, M., Hajizadeh, A. & Chen, Z., mar. 2019, *Applied Sciences*. 9, 6, 17 s., 1184.

### **FAST model of the scaled offshore floating wind turbine AAUE-TLP**

Jessen, K. & N. Soltani, M., 2019

### **ANFIS Based Approach for Stochastic Modeling of Smart Home**

Yousefi, M., Kianpoor, N., Hajizadeh, A. & N. Soltani, M., dec. 2018, *Proceedings of 2018 2nd European Conference on Electrical Engineering and Computer Science (EECS)*. IEEE Press

### **Design and implementation of attitude stabilization system for marine satellite tracking antenna**

Wang, Y., Soltani, M., Hussain, D. M. A. & Christensen, R. M., dec. 2018, *Electronics (Switzerland)*. 7, 12, 398.

### **Application of Boost Converter to Increase the Speed Range of Dual-stator Winding Induction Generator in Wind Power Systems**

Kavousi, A., Fathi, S. H., Milimonfared, J. & N. Soltani, M., 1 nov. 2018, *IEEE Transactions on Power Electronics*. 33, 11, s. 9599-9610 12 s., 8267304.

### **Experimental Verification of the Hydro-elastic Model of A Scaled Floating Offshore Wind Turbine**

Mortensen, S. M., Laugesen, K., Kirkegaard Jensen, J., Jessen, K. & N. Soltani, M., 26 okt. 2018, *Proceedings of the 2nd IEEE Conference on Control Technology and Applications: CCTA*. IEEE Press, s. 1623-1630 8 s. 8511565

### **Accurate Modeling of DC Microgrid for Fault and Protection Studies**

Bayati, N., Hajizadeh, A. & N. Soltani, M., 17 okt. 2018, *2018 International Conference on Smart Energy Systems and Technologies, SEST 2018 - Proceedings*. IEEE Press, s. 1-6 6 s. 8495679

### **Protection in DC microgrids: A comparative review**

Bayati, N., Hajizadeh, A. & N. Soltani, M., okt. 2018, I: *IET Smart Grid*. 1, 3, s. 66-75 10 s.

### **Experimental Modelling of a Floating Offshore Wind Turbine**

Lindquist, C., Nielsen, P. N., Pedersen, R. & N. Soltani, M., aug. 2018, *Proceedings of the 23rd International Conference on Methods and Models in Automation and Robotics, MMAR*. IEEE Press, s. 327-332 6 s. 8485979

### **Cable Connection Scheme Optimization for Offshore Wind Farm Considering Wake Effect**

Hou, P., Yang, G., Hu, W., Chen, C., Soltani, M. & Chen, Z., jul. 2018, *Proceedings of the 2018 IEEE Congress on Evolutionary Computation, CEC 2018*. IEEE Press, s. 1-8 8 s. 8477866

### **Active Power Dispatch Strategy of Wind Farms under Generator Faults**

Ma, K., Zhu, J., N. Soltani, M., Hajizadeh, A., Hou, P. & Chen, Z., jun. 2018, *Proceedings of the European Safety and Reliability Conference 2018: Safe Societies in a Changing World*. Haugen, S., Barros, A., Gulijk, C. V., Kongsvik, T. & Vinnem, J. E. (red.). 1 udg. London, UK: CRC Press, s. 2147-2152 6 s.

### **Feasibility Study of a Simulation Driven Approach for Estimating Reliability of Wind Turbine Fluid Power Pitch Systems**

Liniger, J., N. Soltani, M., Pedersen, H. C. & Sepehri, N., jun. 2018, *Safety and Reliability – Safe Societies in a Changing World: Proceedings of the 28th International European Safety and Reliability Conference (ESREL 2018), Trondheim, Norway, 17–21 June 2018*. Haugen, S., Barros, A., van Gulijk, C., Kongsvik, T. & Vinnem, J. E. (red.). 1 udg. CRC Press/Balkema, s. 2037-2044 8 s.

### **Impact of Faults and Protection Methods on DC Microgrids Operation**

Bayati, N., Hajizadeh, A. & N. Soltani, M., jun. 2018, *Proceedings - 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe, IEEEIC/I and CPS Europe 2018*. IEEE Press, s. 1-6 6 s. 8494631

### **Optimized Power Dispatch in Wind Farms for Power Maximizing Considering Fatigue Loads**

Zhang, B., N. Soltani, M., Hu, W., Hou, P., Huang, Q. & Chen, Z., apr. 2018, I: *IEEE Transactions on Sustainable Energy*. 9, 2, s. 862-871 10 s.

### **Energy Management strategies for Smart Home Regarding Uncertainties: State of the art, Trends, and Challenges**

Yousefi, M., Hajizadeh, A. & N. Soltani, M., feb. 2018, *Proceedings - 2018 IEEE International Conference on Industrial Technology, ICIT 2018*. IEEE, s. 1219-1225 7 s.

### **A Switched-Boost DC/DC Converter with High Voltage Gain and Continuous Input Current**

Mostaan, A., Abdelhakim, A., N. Soltani, M. & Blaabjerg, F., 2018, *IEEE Applied Power Electronics Conference and Exposition (APEC) 2018: APEC 2018*. IEEE Press, s. 1540-1545 6 s.

### **Comparison of loads for wind turbine down-regulation strategies**

Zhu, J., Ma, K., N. Soltani, M., Hajizadeh, A. & Chen, Z., dec. 2017, *Proceedings 2017 11th Asian Control Conference (ASCC)*. IEEE Press, 6 s.

### **Fault Detection and Isolation for Wind Turbine Electric Pitch System**

Zhu, J., Ma, K., Hajizadeh, A., N. Soltani, M. & Chen, Z., dec. 2017, *Proceedings of 2017 IEEE 12th International Conference on Power Electronics and Drive Systems (PEDS)*. IEEE Press, s. 618-623 6 s. (IEEE International Conference on Power Electronics and Drive Systems).

### **Wind Turbine Down-regulation Strategy for Minimum Wake Deficit**

Ma, K., Zhu, J., N. Soltani, M., Hajizadeh, A. & Chen, Z., dec. 2017, *Proceedings of 2017 11th Asian Control Conference (ASCC)*. IEEE Press, s. 2652 - 2656 5 s.

**Corrigendum to "Combined optimization for offshore wind turbine micro siting" [Appl. Energy 189 (2017) 271–282]**

Hou, P., Hu, W., Soltani, M., Chen, C. & Chen, Z., 1 nov. 2017, I: Applied Energy. 205, s. 1609 1 s.

**Model-based Estimation of Gas Leakage for Fluid Power Accumulators in Wind Turbines**

Liniger, J., Pedersen, H. C. & N. Soltani, M., okt. 2017, *Proceedings of ASME/BATH 2017 Symposium on Fluid Power and Motion Control*. American Society of Mechanical Engineers, 10 s. FPMC2017-4253

**Risk-based Comparative Study of Fluid Power Pitch Concepts**

Liniger, J., Pedersen, H. C. & N. Soltani, M., okt. 2017, *Proceedings of ASME/BATH 2017 Symposium on Fluid Power & Motion Control*. American Society of Mechanical Engineers, 9 s.

**Single Phase Transformer-less Buck-Boost Inverter with Zero Leakage Current for PV Systems**

Mostaan, A., Abdelhakim, A., N. Soltani, M. & Blaabjerg, F., okt. 2017, *Proceedings of 43rd Annual Conference of the IEEE Industrial Electronics Society, IECON 2017*. IEEE Press, s. 1536-1543 8 s.

**A Novel Single Switch Transformerless Quadratic DC/DC Buck-Boost Converter**

Mostaan, A., A. Gorji, S., N. Soltani, M. & Ektesabi, M., sep. 2017, *Proceedings of 2017 19th European Conference on Power Electronics and Applications (EPE'17 ECCE Europe)*. IEEE, 6 s.

**A Transformer-less Single Phase Inverter For photovoltaic Systems**

Mostaan, A., Alizadeh, E., Qu, Y. & Soltani, M., sep. 2017, *Proceedings of 2017 19th European Conference on Power Electronics and Applications (EPE'17 ECCE Europe)*. IEEE Press, 9 s. 8099008

**Intelligent Power Control of DC Microgrid**

Hajizadeh, A., N. Soltani, M. & Norum, L., sep. 2017, *Proceedings of 2017 IEEE 17th International Conference on Ubiquitous Wireless Broadband (ICUWB)*. IEEE Press, 5 s. (IEEE International Conference on Ultra-Wideband (ICUWB)).

**Failure Mode and Effect Analysis for Wind Turbine Systems in China**

Zhu, J., Ma, K., N. Soltani, M. & Chen, Z., jun. 2017, *Safety and Reliability. Theory and Applications*. CRC Press, s. 2417–2421 5 s.

**Optimal Tuning of Multivariable Disturbance-Observer-Based Control for Flicker Mitigation Using Individual Pitch Control of Wind Turbine**

Raja, M. I., Hussain, D. M. A., Soltani, M. & Raja, M. R., jun. 2017, I: IET Renewable Power Generation. 11, 8, s. 1121 – 1128 8 s.

**Reliability Based Design of Fluid Power Pitch Systems for Wind Turbines**

Liniger, J., N. Soltani, M., Pedersen, H. C., Carroll, J. & Sepehri, N., maj 2017, I: Wind Energy. 20, 6, s. 1097-1110 14 s.

**Ship Attitude Prediction Based on Input Delay Neural Network and Measurements of Gyroscopes**

Wang, Y., N. Soltani, M. & Hussain, D. M. A., maj 2017, *Proceedings of 2017 American Control Conference (ACC)*. IEEE Press, s. 4901-4907 7 s.

**An Attitude Heading and Reference System For Marine Satellite Tracking Antenna**

Wang, Y., Soltani, M. & Hussain, D. M. A., apr. 2017, I: IEEE Transactions on Industrial Electronics. 64, 4, s. 3095 - 3104 10 s.

**Offshore Wind Farm Layout Design Considering Optimized Power Dispatch Strategy**

Hou, P., Hu, W., N. Soltani, M., Chen, C., Zhang, B. & Chen, Z., apr. 2017, I: IEEE Transactions on Sustainable Energy. 8, 2, s. 638-647 9 s.

**A Novel Quasi-SEPIC High-Voltage Boost DC-DC Converter**

Siwakoti, Y. P., N. Soltani, M., Blaabjerg, F. & Mostaan, A., mar. 2017, *Proceedings of the 2017 IEEE Applied Power Electronics Conference and Exposition (APEC)*. IEEE Press, s. 2213-2216 4 s.

**Combined Optimization for Offshore Wind Turbine Micro Siting**

Hou, P., Hu, W., N. Soltani, M., Chen, C. & Chen, Z., mar. 2017, I: *Applied Energy*. 189, s. 271–282 12 s.

**Signal-based Gas Leakage Detection for Fluid Power Accumulators in Wind Turbines**

Liniger, J., Sepehri, N., N. Soltani, M. & Pedersen, H. C., mar. 2017, I: *Energies*. 10, 3, 18 s., 331.

**Wind Turbine Power Curve Design for Optimal Power Generation in Wind Farms Considering Wake Effect**

Tian, J., Zhou, D., Su, C., N. Soltani, M., Chen, Z. & Blaabjerg, F., mar. 2017, I: *Energies*. 10, 3, 19 s., 395.

**Review of reactive power dispatch strategies for loss minimization in a DFIG-based wind farm**

Zhang, B., Hu, W., Hou, P., Tan, J., Soltani, M. & Chen, Z., 2017, I: *Energies*. 10, 7, 17 s., 856.

**A Novel Quadratic Buck-Boost DC-DC Converter without Floating Gate-Driver**

Mostaan, A., A. Gorji, S., N. Soltani, M. & Ektesabi, M., dec. 2016, *Proceedings of the 2nd IEEE Southern Power Electronics Conference (SPEC), 2016*. IEEE Press, 5 s.

**Hybrid Impedance Network-Based Converter With High Voltage Gain and No Commutation Problem**

Mostaan, A., N. Soltani, M. & A. Gorji, S., dec. 2016, *Proceedings of the 2nd IEEE Southern Power Electronics Conference (SPEC), 2016*. IEEE Press, 4 s.

**Family of Step-up DC/DC Converters with Fast Dynamic Response for Low Power Applications**

N. Soltani, M., Mostaan, A., Siwakoti, Y. P., Davari, P. & Blaabjerg, F., nov. 2016, I: *IET Power Electronics*. 9, 14, s. 2665 - 2673 9 s.

**Optimization of offshore wind farm layout in restricted zones**

Hou, P., Hu, W., Chen, C., N. Soltani, M. & Chen, Z., okt. 2016, I: *Energy*. 113, s. 487–496 10 s.

**Sliding Mode Control of PMSG Wind Turbine Based on Enhanced Exponential Reaching Law**

Mozayan, S. M., Saad, M., Vahedi, H., Fortin-Blanchette, H. & Soltani, M., okt. 2016, I: *IEEE Transactions on Industrial Electronics*. 63, 10, s. 6148 - 6159 12 s.

**An Estimator for Attitude and Heading Reference Systems Based on Virtual Horizontal Reference**

Wang, Y., Soltani, M. & Hussain, D. M. A., jul. 2016, *Proceedings of 2016 American Control Conference*. American Automatic Control Council, s. 5504 - 5510 7 s.

**A New Approach for Offshore Wind Farm Energy Yields Calculation with Mixed Hub Height Wind Turbines**

Hou, P., Hu, W., Soltani, M. & Chen, Z., jul. 2016, *Proceedings of the IEEE Power & Energy Society General Meeting (PESGM), 2016*. IEEE Press, 5 s.

**A Reactive Power Dispatch Strategy with Loss Minimization for a DFIG Based Wind Farm**

Zhang, B., Hou, P., Hu, W., Soltani, M., Chen, C. & Chen, Z., jul. 2016, I: *IEEE Transactions on Sustainable Energy*. 7, 3, s. 914-923 10 s.

**A Wind Farm Active Power Dispatch Strategy for Fatigue Load Reduction**

Zhang, B., N. Soltani, M., Hu, W., Hou, P. & Chen, Z., jul. 2016, *Proceedings of American Control Conference (ACC), 2016*. American Automatic Control Council, s. 5879 - 5884 6 s.

**Coordinated Power Dispatch of a PMSG based Wind Farm for Output Power Maximizing Considering the Wake Effect and Losses**

Zhang, B., Hu, W., Hou, P., Soltani, M. & Chen, Z., jul. 2016, *Proceedings of the IEEE Power & Energy Society General Meeting (PESGM), 2016*. IEEE Press, 5 s.



#### **Optimization of Decommission Strategy for Offshore Wind Farms**

Hou, P., Hu, W., Soltani, M., Zhang, B. & Chen, Z., jul. 2016, *Proceedings of the IEEE Power & Energy Society General Meeting (PESGM), 2016*. IEEE Press, 5 s.

#### **An Experimental Analysis of the Effect of Icing on Wind Turbine Rotor Blades**

Raja, M. I., Hussain, D. M. A. & Soltani, M., maj 2016, *Proceedings of IEEE/PES Transmission and Distribution Conference and Exposition (T&D), 2016*. IEEE Press, 5 s.

#### **An adaptive Multiplicative Extended Kalman Filter for Attitude Estimation of Marine Satellite Tracking Antenna**

Wang, Y., Soltani, M. & Hussain, D. M. A., apr. 2016, *Proceedings of OCEANS 2016 - Shanghai*. IEEE Press, 5 s.

#### **Dynamic Modeling and Simulation of Marine Satellite Tracking Antenna Using Lagrange Method**

Wang, Y., Soltani, M. & Hussain, D. M. A., apr. 2016, *Proceedings of UKSim-AMSS 18th International Conference on Computer Modelling and Simulation (UKSim)*. IEEE Press, s. 135 - 140 6 s.

#### **A Nonlinear Attitude Estimator for Attitude and Heading Reference Systems Based on MEMS Sensors**

Wang, Y., Soltani, M. & Hussain, D. M. A., mar. 2016, *Proceedings of SICE International Symposium on Control Systems (ISCS) 2016*. IEEE Press, s. 23 - 30 8 s. 7470176

#### **Optimized Power Dispatch Strategy for Offshore Wind Farms**

Hou, P., Hu, W., Zhang, B., Soltani, M., Chen, C. & Chen, Z., 2016, I: IET Renewable Power Generation. 10, 3, s. 399-409 11 s.

#### **A Novel Energy Yields Calculation Method for Irregular Wind Farm Layout**

Hou, P., Hu, W., Soltani, M. & Chen, Z., nov. 2015, *Proceedings of the IECON2015, Yokohama, Nov 2015*. IEEE Press, s. 000380 - 000385 6 s.

#### **Wind Farm Active Power Dispatch for Output Power Maximizing Based on a Wind Turbine Control Strategy for Load Minimizing**

Zhang, B., Hu, W., Hou, P., Soltani, M. & Chen, Z., nov. 2015, *International Conference on Sustainable Mobility Applications, Renewables and Technology (SMART), 2015*. IEEE Press, s. 1-6 6 s.

#### **A Family of Four Quadrant DC/DC Converters with Reduced Number of Components**

Mostaan, A. & Soltani, M., okt. 2015, *Proceedings of the 2015 IEEE International Telecommunications Energy Conference (INTELEC)*. Osaka, Japan: IEEE Press, 6 s.

#### **Optimized Placement of Wind Turbines in Large-Scale Offshore Wind Farm using Particle Swarm Optimization Algorithm**

Hou, P., Hu, W., Soltani, M. & Chen, Z., okt. 2015, I: I E E E Transactions on Sustainable Energy. 6, 4, s. 1272 - 1282 11 s.

#### **Reliable Fluid Power Pitch Systems: A review of state of the art for design and reliability evaluation of fluid power systems**

Liniger, J., Pedersen, H. C. & Soltani, M., okt. 2015, *Proceedings of the ASME/BATH 2015 Symposium on Fluid Power & Motion Control*. American Society of Mechanical Engineers, s. 1-11 10 s.

#### **A MEMS-based Adaptive AHRS for Marine Satellite Tracking Antenna**

Wang, Y., Hussain, D. M. A. & Soltani, M., aug. 2015, I: IFAC-PapersOnLine. 48, 16, s. 121-126 4 s.

#### **Fatigue Load Modeling and Control for Wind Turbines based on Hysteresis Operators**

Barradas Berglind, J. D. J., Wisniewski, R. & Soltani, M., 1 jul. 2015, *American Control Conference (ACC), 2015*. IEEE Press, s. 3721-3727 7 s. (American Control Conference).

#### **Fatigue Damage Estimation and Data-based Control for Wind Turbines**

Barradas Berglind, J. D. J., Wisniewski, R. & Soltani, M., 23 apr. 2015, I: IET Control Theory & Applications. 9, 7, s. 1042 – 1050 9 s.

**DAC to Mitigate the Effect of Periodic Disturbances on Drive Train using Collective Pitch for Variable Speed Wind Turbine**

Imran, R. M., Hussain, D. M. A. & Soltani, M., mar. 2015, *Proceedings of the 2015 IEEE International Conference on Industrial Technology (ICIT)*. Seville, Spain: IEEE Press, s. 2588 - 2593 6 s.

**Novel T-Z source inverter with high voltage gain and reduced transformer turn ratio**

Mostaan, A., Sharifi Malfejani, S., Soltani, M. & Baghrmian, A., feb. 2015, *Proceedings of the 2015 6th Power Electronics, Drives Systems & Technologies Conference (PEDSTC)*. IEEE Press, s. 178 - 182 5 s.

**Active Power Dispatch Method for a Wind Farm Central Controller Considering Wake Effect**

Tian, J., Su, C., N. Soltani, M. & Chen, Z., nov. 2014, *Proceedings of the 40th Annual Conference of IEEE Industrial Electronics Society, IECON 2014*. IEEE Press, s. 5450 - 5456 7 s. (Proceedings of the Annual Conference of the IEEE Industrial Electronics Society).

**DAC with LQR Control Design for Pitch Regulated Variable Speed Wind Turbine**

Imran, R. M., Hussain, D. M. A. & Soltani, M., okt. 2014, *Proceedings of the 2014 IEEE International Telecommunications Energy Conference (INTELEC)*. Vancouver, BC, Canada: IEEE Press, s. 1-6 6 s. (International Telecommunications Energy Conference. Proceedings).

**Novel Step-Up DC/DC Converter with No Right Half Plane Zero and Reduced Switched Voltage Stress Characteristics**

Mostaan, A., Alizadeh, E. & Soltani, M., okt. 2014, *Proceedings of the 2014 IEEE International Telecommunications Energy Conference (INTELEC)*. Vancouver, BC, Canada: IEEE Press, 7 s. (International Telecommunications Energy Conference. Proceedings).

**Controller Design for Blade Load Reduction Using Synthetic Jets**

Soltani, M. & Mirzaei, M., jun. 2014, *Proceedings of the 2014 American Control Conference (ACC)*. IEEE Press, s. 4440-4445 6 s. (American Control Conference).

**Model Based Active Power Control of a Wind Turbine**

Mirzaei, M., Soltani, M., Poulsen, N. K. & Niemann, H. H., jun. 2014, *Proceedings of the 2014 American Control Conference (ACC)*. IEEE Press, s. 5037-5042 6 s. (American Control Conference).

**Model Predictive Control of Buoy Type Wave Energy Converter**

Soltani, M., Sichani, M. T. & Mirzaei, M., 2014, *Proceedings of the 19th IFAC World Congress, 2014*. Boje, E. & Xia, X. (red.). IFAC Publisher, s. 11159-11164 6 s. (I F A C Workshop Series; Nr. Part 1, Bind 19).

**Estimation of Rotor Effective Wind Speed: A Comparison**

Soltani, M., Knudsen, T., Svenstrup, M., Wisniewski, R., Brath, P., Ortega, R. & Johnson, K., jul. 2013, *IEEE Transactions on Control Systems Technology*. 21, 4, s. 1155-1167 13 s.

**An MPC approach to individual pitch control of wind turbines using uncertain LIDAR measurements**

Mirzaei, M., Soltani, M., Poulsen, N. K. & Niemann, H. H., 2013, *Proceedings of the 2013 European Control Conference, ECC*. IEEE Press, s. 490-495 6 s.

**Model Predictive Control of Wind Turbines using Uncertain LIDAR Measurements**

Mirzaei, M., Soltani, M., Poulsen, N. K. & Niemann, H. H., 2013, *Proceedings of the American Control Conference, ACC 2013*. American Automatic Control Council, s. 2235-2240 6 s. (American Control Conference).

**Preview-based Asymmetric Load Reduction of Wind Turbines**

Madsen, M., Filsø, J. & Soltani, M., 2012, *IEEE International Conference on Control Applications*.

**Robust Parametric Fault Estimation in a Hopper System**

Soltani, M., Izadi-Zamanabadi, R., Wisniewski, R., Belau, W. & Le Gonidec, S., 2012, *7th IFAC Symposium on Robust Control Design*. Elsevier, Bind 7. s. 491-498 8 s. (I F A C Workshop Series).

**Prediction models for wind speed at turbine locations in a wind farm**

Knudsen, T., Bak, T. & Soltani, M., 8 aug. 2011, I: *Wind Energy*. 14, 7, s. 877-894

**Estimation of Wind Turbulence Using Spectral Models**

Soltani, M., Knudsen, T. & Bak, T., 2011, I: *IEEE Conference on Computer-Aided Control Systems Design*. s. 1197-1201

**Load Reduction of Wind Turbines Using Receding Horizon Control**

Soltani, M., Wisniewski, R., Brath, P. & Boyd, S., 2011, I: *IEEE International Conference on Control Applications*. s. 852-857 6 s.

**Aeolus Toolbox for Dynamics Wind Farm Model, Simulation and Control**

Grunnet, J. D., Soltani, M., Knudsen, T., Kragelund, M. N. & Bak, T., 2010, *European Wind Energy Conference and Exhibition, EWEC 2010 : Conference Proceedings*.

**Multi-Zone hybrid model for failure detection of the stable ventilation systems**

Gholami, M., Schiøler, H., Soltani, M. & Bak, T., 2010, *2010 IEEE International Symposium on Industrial Electronics, ISIE*. IEEE Press, s. 262 - 267

**Reliable Control of Ship-mounted Satellite Tracking Antenna**

Soltani, M., Izadi-Zamanabadi, R. & Wisniewski, R., 2010, I: *IEEE Transactions on Control Systems Technology*. PP, 99, s. 1 - 8 8 s.

**Wind Farm Decentralized Dynamic Modeling With Parameters: AEOLUS EU-report, Deliverable 2.3**

Soltani, M., Shakeri, S. M., Grunnet, J. D., Knudsen, T. & Bak, T., 2010, 32 s.

**Distributed Control of Large-Scale Offshore Wind Farms**

Knudsen, T., Bak, T. & Soltani, M., 2009. 8 s.

**Modeling and Simulation of Offshore Wind Farms for Farm Level Control**

Soltani, M., Knudsen, T. & Bak, T., 2009, *Proceedings of The European Offshore Wind 2009*.

**Prediction Models for Wind Speed at Turbines in a Farm with Application to Control**

Knudsen, T., Soltani, M. & Bak, T., 2009, *Extended Abstracts for Euromech Colloquium 508 on Wind Turbine Wakes*. E.T.S.I. Industriales Universidad Politécnica de Madrid

**Preliminary Description of Wind Farm Models and Case Study**

Soltani, M., 2009, Aalborg Universitet. 38 s.

**Preliminary Dynamic Model - Aeolus - WP2**

Knudsen, T. & Soltani, M., 2009, Aalborg Universitet.

**Simulation Models for Case Study - Aeolus - WP5**

Soltani, M., Knudsen, T. & Bak, T., 2009, Aalborg Universitet.

**Fault Detection and Identification for Hopper Space Shuttle**

Soltani, M. & Izadi-Zamanabadi, R., 2008, Department of Computer Science, Aalborg University. 108 s.

**Fault Diagnosis and Fault Tolerant Control of A Ship-mounted Satellite Tracking Antenna**

Soltani, M., 2008, Aalborg: Department of Control Engineering, Aalborg University. 138 s.

#### **Parametric fault estimation based on $H^\infty$ optimization in a satellite launch vehicle**

Soltani, M., Izadi-Zamanabadi, R. & Stoustrup, J., 2008, I: *Proceedings of the IEEE Conference on Control Applications*. s. 727-732

#### **Robust FDI for A Ship-mounted Satellite Tracking Antenna: A Nonlinear Approach**

Soltani, M., Izadi-Zamanabadi, R. & Wisniewski, R., 2008, *Proceedings of the 2008 IEEE Multi-conference on Systems and Control*. IEEE, s. 757-762

#### **Robust Parametric Fault Diagnosis of Hopper Engine subsystem- H-infinity versus Mu synthesis**

Soltani, M., Wisniewski, R., Izadi-Zamanabadi, R., Belau, W. & Le Gonidec, S., 2008.

#### **High Precision Control of Ship-Mounted Satellite Tracking Antenna**

Mohsen, S., Izadi-Zamanabadi, R. & Wisniewski, R., 2007, *Proceedings of the European Control Conference 2007*. IEEE, s. 368-374

#### **High Precision Control of Ship-mounted Satellite Tracking Antenna**

Soltani, M., Izadi-Zamanabadi, R. & Wisniewski, R., 2006, Aalborg: Aalborg Universitet. 48 s.

#### **Modeling and Verification of Satellite Tracking Antenna**

Soltani, M., Izadi-Zamanabadi, R. & Wisniewski, R., 2006, Aalborg: Aalborg Universitet. 66 s.

### **Presse/medie**

#### **Crestwing's wave energy device set for streamlining at Aalborg University**

Mohsen N. Soltani

05/05/2023

1 element af Mediedækning

#### **Esbjergforskere kan redde mad til 50 millioner indere**

Mohsen N. Soltani & Amin Hajizadeh

15/05/2019

3 elementer af Mediedækning

#### **Forskere prøver at snyde bølgerne**

Mohsen N. Soltani

25/04/2016

2 elementer af Mediedækning

#### **Forsker skal lette kommunikation til søs**

Mohsen N. Soltani

30/12/2013

7 elementer af Mediedækning

#### **Forskning holder skibsradioen oppe**

Mohsen N. Soltani

01/12/2008

1 element af Mediedækning

#### **Forskning holder skibsradioen oppe**

Mohsen N. Soltani

01/10/2008

1 Mediebidrag

#### **Højteknologifonden støtter nyt dansk satellitprojekt**

Mohsen N. Soltani

20/12/2013  
1 element af Mediedækning

#### **I fokus**

Mohsen N. Soltani  
16/12/2013  
7 elementer af Mediedækning

#### **Indlejret kontrolsystem holder skibradioen oppe**

Mohsen N. Soltani  
21/11/2008  
1 Mediebidrag

#### **Perspektive**

Mohsen N. Soltani  
21/03/2006  
1 Mediebidrag

#### **Projekt skal sikre bedre kommunikation til skibe**

Mohsen N. Soltani  
16/12/2013  
3 elementer af Mediedækning

#### **Stort potentiale med brintbunkering**

Mohsen N. Soltani  
18/09/2023 → 20/09/2023  
2 elementer af Mediedækning

#### **Tre tildelte ph.d.-grader fra Aalborg Universitet**

Morten Blarke & Mohsen N. Soltani  
09/01/2009  
6 elementer af Mediedækning

#### **AAU-forsker sikrer skibe stabile nødradioer**

Mohsen N. Soltani  
22/11/2008  
1 element af Mediedækning

### **Projekter**

#### **Control of offshore crane systems**

N. Soltani, M.

#### **Identification and verification of a scaled floating wind turbine structure**

N. Soltani, M.

#### **Modeling and control of a scaled floating wind turbine system**

N. Soltani, M.

#### **Highly Reliable and Efficient Wave Energy Generator System**

N. Soltani, M., P. Bloom, R. & P. Bloom, R.  
01/01/2023 → 31/08/2025

#### **Robust operation of DC-DC converters for nonlinear loads in DC-microgrids**

Jessen, K., N. Soltani, M. & Hajizadeh, A.

15/08/2022 → 16/02/2024

**Advanced Controller for Modular DC-DC Converters Interfaced to Electrolyzer in Energy Island**

Nezhadkhatami, H., Hajizadeh, A. & N. Soltani, M.

15/06/2022 → 14/06/2025

**Hydrogen Bunkering Integration in Offshore Wind**

N. Soltani, M. & Erfani, M.

01/05/2022 → 30/06/2023

**Modeling and Control of an MVDC Converter Based on SiC Switches for Power Collection of Offshore Wind Farms and Energy Islands**

Mahdzadeh Shalmaei, A. H., N. Soltani, M. & Hajizadeh, A.

01/05/2022 → 30/04/2025

**Optimal Stochastic Operation of Micro Multi-Carrier Energy Hubs**

Kiani-Moghaddam, M., Arabkoohsar, A. & N. Soltani, M.

15/03/2022 → 14/03/2025

**Research on Vibration Suppression and Life Prediction of Key Components of Offshore Wind Turbines**

Tian, H., N. Soltani, M. & Nielsen, M. E.

01/12/2021 → 30/11/2024

**Modeling and Control of Multi-Port DC/DC converter for Offshore Wind Farm Application**

Farajdadian, S., Hajizadeh, A. & N. Soltani, M.

01/08/2021 → 31/07/2024

**IEA Wind Task 44: Farm Flow Control**

N. Soltani, M.

01/07/2021 → 31/05/2025

**CREW: Combined Battery and Hydrogen Fuel Cell for Marine Power Generation**

N. Soltani, M., Hajizadeh, A. & Miltersen, A. H.

Energy Cluster Denmark

01/04/2021 → 01/09/2021

**DATA-BASED WIND FARM MODELING AND CONTROL**

Miao, Y., N. Soltani, M. & Hajizadeh, A.

04/09/2020 → 03/09/2023

**OffG-ReneCS: Development and demonstration of an off-grid standalone renewable based cold storage for agricultural use in India**

Arabkoohsar, A., N. Soltani, M., Hajizadeh, A., Sadi, M., Jessen, K., Behzadi, A. & Christensen, M. D.

Innovationsfonden

01/06/2019 → 31/05/2022

**Development and Demonstration of an Off-grid Standalone Renewable Based Cold Storage for Agricultural use in India**

Arabkoohsar, A., N. Soltani, M., Hajizadeh, A., Jessen, K., Behzadi, A. & Sadi, M.

01/05/2019 → 31/05/2022

**Energy management in a "smart home" with integrated solar cells, electric vehicles and heat pumps - Energistyring i et "smart home" med integrerede solceller, elbiler og varmepumper**

Hajizadeh, A. & N. Soltani, M.

ELFORSK

05/02/2018 → 01/09/2020

**Star2Com: Stabilization and control of Satellite-tracking antennas for marine Communication (Star2 Com)**

N. Soltani, M., Pedersen, J. K., Yang, Z., Nielsen, P. & Christensen, J.

HTF

01/04/2014 → 31/10/2017

**PDPWAC: Plant-wide De-oiling of Produced Water using Advanced Control**

Yang, Z., Pedersen, S., Durdevic, P., Pedersen, J. K., N. Soltani, M., Stigkær, J. P., Aillos, A., Løhndorf, B. & Sørensen, P.

22/04/2013 → 31/12/2016

**Modern Wind Turbine Control**

N. Soltani, M.

01/05/2012 → 25/09/2016

**Fault Detection in Hopper Engine System**

N. Soltani, M., Izadi-Zamanabadi, R. & Stoustrup, J.

19/05/2010 → 18/05/2011

**Reliable Control of High Precision Ship-mounted Satellite Tracking Antenna**

N. Soltani, M., Izadi-Zamanabadi, R. & Wisniewski, R.

<ingen navn>

19/05/2010 → 18/05/2013

**Hybride Systemer**

Wisniewski, R., Izadi-Zamanabadi, R., Ravn, A. P., Bhanderi, D., Thomsen, J. S., Larsen, J. A., N. Soltani, M., Stoustrup, J., Bendtsen, J. D., Trangbæk, K., Alminde, L., Grunnet, J. D. & Laursen, K. K.

<ingen navn>

19/05/2010 → 18/05/2013

**VESTAS Turbine Control Program**

Wisniewski, R. & N. Soltani, M.

15/03/2010 → 14/02/2016

**AEOLUS: Distributed Control of Large-Scale Offshore Wind Farms**

Bak, T., Knudsen, T. & N. Soltani, M.

ICT - INFORMATION AND COMMUNICATION TECHNOLOGIES

01/05/2008 → 30/04/2010

**Nonlinear Control of Satellite Tracking Antenna**

N. Soltani, M., Izadi-Zamanabadi, R. & Wisniewski, R.

<ingen navn>

29/11/2005 → 20/12/2006

**Modeling and Verification of Ship-mounted Satellite Tracking Antenna**

N. Soltani, M., Izadi-Zamanabadi, R. & Wisniewski, R.

<ingen navn>

01/04/2005 → 30/11/2005

**Fault Tolerant Control of High Precision under-actuated Satellite Tracking Antenna**

N. Soltani, M., Izadi-Zamanabadi, R. & Wisniewski, R.

<ingen navn>

15/02/2005 → 14/02/2008

**Fault Tolerant Design and Reliable Control of High Precision Under- Actuated Satellite Tracking Antenna**

N. Soltani, M., Izadi-Zamanabadi, R. & Wisniewski, R.

<ingen navn>

01/02/2005 → 01/02/2008