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## Employment

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## Research outputs

### Blockchain-based protection of DC microgrid

Bayati, N., Hajizadeh, A. & N. Soltani, M., 1 Jun 2020, *Blockchain-Based Smart Grids*. 1 ed. Elsevier, 26 p.

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

Bayati, N., Hajizadeh, A., N. Soltani, M. & Lin, Z., 12 Mar 2020, (Accepted/In press) *The 15th International Conference on Developments in Power System Protection*. IET

### 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*. 1 ed. Springer

### Early Detection of Coil Failure in Solenoid Valves

Liniger, J., Stubkier, S., N. Soltani, M. & Pedersen, H. C., Jan 2020, In : *IEEE - ASME Transactions on Mechatronics*.

### 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., 2020, *2020 11th International Power Electronics, Drive Systems and Technologies Conference (PEDSTC)*. IEEE

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

Yousefi, M., Hajizadeh, A., N. Soltani, M. & Hredzak, B., 2020, (Accepted/In press) In : IEEE Transactions on Industrial Informatics. p. 1-11 p.

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

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

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

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**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, In : IEEE Journal of Emerging and Selected Topics in Power Electronics. 7, 2, p. 1243-1257 15 p., 8419732.

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

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

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Jessen, K., Laugesen, K., Mortensen, S. M., Kirkegaard Jensen, J. & N. Soltani, M., Mar 2019, In : Applied Sciences. 9, 6, 28 p., 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, In : Applied Sciences. 9, 6, 17 p., 1184.

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

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

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

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

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

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

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

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

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

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

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

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Raja, M. I., Hussain, D. M. A., Soltani, M. & Raja, M. R., Jun 2017, In : *IET Renewable Power Generation*. 11, 8, p. 1121 – 1128 8 p.

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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, p. 2213-2216 4 p.

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

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

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

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

Mohsen N. Soltani

25/04/2016

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**Forsker skal lette kommunikation til søs**

Mohsen N. Soltani

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**Forskning holder skibsradioen oppe**

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**Forskning holder skibsradioen oppe**

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**Højteknologifonden støtter nyt dansk satellitprojekt**

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