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**An adaptive class topper optimization for scheduling thermal generation with cubic fuel cost function**

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**Leinakse, Madis** 2022 <https://doi.org/10.23658/taltech.3/2022> <https://digikogu.taltech.ee/et/Item/f179e30b-3265-4cc4-94d5-29750f3e9bfb>  
[https://www.ester.ee/record=b5491230\\*est](https://www.ester.ee/record=b5491230*est)

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**Tuttelberg, Kaur; Kilter, Jako** International journal of electrical power & energy systems 2018 / p. 62-71 : ill  
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**[Võrguteavik]**

2014

**Experiences with dynamic PMU compliance testing using standard relay testing equipment [Electronic resource]**

**Kilter, Jako; Palu, Ivo; Almas, Muhammad Shoaib; Vanfretti, Luigi** 2015 IEEE Power and Energy Society Innovative Smart Grid Technologies Conference (ISGT 2015) : 18-20 February 2015, Washington, DC, USA 2015 / [5] p. : ill. [USB]  
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**Almas, Muhammad Shoaib; Kilter, Jako; Vanfretti, Luigi** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 103-110 : ill

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**Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Kilter, Jako; Sardar, Muhammad Usman** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p  
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[https://www.ester.ee/record=b5542953\\*est](https://www.ester.ee/record=b5542953*est)

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**Kilter, Jako; Sarnet, Tanel** 2023

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<https://doi.org/10.1109/TPWRD.2021.3052721> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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**Asad, Bilal; Sardar, Muhammad Usman; Vaimann, Toomas; Kallaste, Ants; Asefi, Sajjad; Kilter, Jako** 2024 International Conference on Diagnostics in Electrical Engineering (Diagnostika) 2024 / 7 p <https://doi.org/10.1109/Diagnostika61830.2024.10693906>

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**Kütt, Lauri; Järvik, Jaan; Vaimann, Toomas; Shafiq, Muhammad; Lehtonen, Matti; Kilter, Jako** Proceedings of the 13th International Scientific Conference Electric Power Engineering 2012 : EPE 2012 : Brno. Vol. 1 2012 / p. 367-371 : ill  
[https://www.researchgate.net/publication/262674502\\_High-Frequency\\_Current\\_Sensor\\_for\\_Power\\_Network\\_On-line\\_Measurements](https://www.researchgate.net/publication/262674502_High-Frequency_Current_Sensor_for_Power_Network_On-line_Measurements)

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**Farhizadan, Mohammadreza; Karrari, Mehdi; Gharehpetian, Gevorg B.; Ahmadihangar, Roya; Kilter, Jako; Rosin, Argo** IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 7 p.  
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**Elahi, H.; Kilter, Jako; Ebner, G.** 2015

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**Leinakse, Madis; Kiristaja, Hendrik; Kilter, Jako** 2018 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), Sarajevo, Bosnia and Herzegovina, October 21-25, 2018 : proceedings 2018 / 6 p  
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**Drovtar, Imre; Landsberg, Mart; Kilter, Jako; Rosin, Argo** SPEEDAM 2012 : Sorrento (Italy) - June 20-22, 2012 : 21st edition of the International Symposium on Power Electronics, Electrical drives, Automation and Motion 2012 / p. 684-689 : ill [CD-ROM]  
[https://www.researchgate.net/publication/261155311\\_Impacts\\_of\\_large\\_scale\\_wind\\_integration\\_on\\_the\\_baltic\\_region's\\_thermal\\_power\\_plant\\_economics\\_and\\_electricity\\_market\\_in\\_2025](https://www.researchgate.net/publication/261155311_Impacts_of_large_scale_wind_integration_on_the_baltic_region's_thermal_power_plant_economics_and_electricity_market_in_2025)

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**Uuemaa, Priit; Drovtar, Imre; Kilter, Jako** 2014 IEEE Innovative Smart Grid Technologies Conference - Asia (ISGT ASIA) Conference : May 20-23, 2014, Berjaya Times Square Hotel, Kuala Lumpur 2014 / p. 383-387 : ill

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**Sarnet, Tanel; Kilter, Jako; Palu, Ivo** Electrical and control technologies : proceedings of the 8th International Conference on Electrical and Control Technologies ECT-2013 : Kaunas, Lithuania, 2-3 May 2013 2013 / p. 168-171  
[https://www.researchgate.net/publication/290247556\\_Influence\\_of\\_electric\\_railway\\_system\\_on\\_voltage\\_unbalance\\_distribution\\_between\\_high\\_voltage\\_and\\_low\\_voltage\\_electrical\\_networks](https://www.researchgate.net/publication/290247556_Influence_of_electric_railway_system_on_voltage_unbalance_distribution_between_high_voltage_and_low_voltage_electrical_networks)

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**Shabbir, Noman; Shahid, Arqum; Daniel, Kamran; Rosin, Argo; Kilter, Jako; Martins, Joao** 2025 IEEE International Conference on Energy Technologies for Future Grids (ETFG) 2025

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**Kilter, Jako; Reinson, Andrus** 6th International Conference "2008 Power Quality and Supply Reliability" : August 27-29, 2008 : Pärnu, Estonia : conference proceedings 2008 / p. 41-46 : map

## **Jaotusvõrgud**

**Meldorf, Mati; Tammoja, Heiki; Treufeldt, Ülo; Kilter, Jako** 2007 [https://www.ester.ee/record=b2347094\\*est](https://www.ester.ee/record=b2347094*est)

## **Keskmiised jõutrafod sagedusele 50 Hz seadme suurima lubatava kestevpingega mitte üle 36 kV. Osa 1, Üldnõuded [Võrguteavik] = Medium power transformers 50 Hz, with highest voltage for equipment not exceeding 36 kV. Part 1, General requirements**

2017 [http://www.ester.ee/record=b4767645\\*est](http://www.ester.ee/record=b4767645*est)

## **Kõrgepingeline lülitis- ja juhtimisaparatuur. Osa 1, Vahelduvvoolu lülitis- ja juhtimisaparatuuri üldliigitus [Võrguteavik] = High-voltage switchgear and controlgear. Part 1, Common specifications for alternating current switchgear and controlgear (IEC 62271-1:2017)**

2017 [http://www.ester.ee/record=b4768187\\*est](http://www.ester.ee/record=b4768187*est)

### **Large scale electric vehicle integration and its impact on the Estonian power system**

**Drovtar, Imre; Rosin, Argo; Landsberg, Mart; Kilter, Jako** IEEE PowerTech 2013, Grenoble, France, 16-20 June 2013 :

proceedings 2013 / [6] p

[https://www.researchgate.net/publication/261398872\\_Large\\_scale\\_electric\\_vehicle\\_integration\\_and\\_its\\_impact\\_on\\_the\\_Estonian\\_power\\_system](https://www.researchgate.net/publication/261398872_Large_scale_electric_vehicle_integration_and_its_impact_on_the_Estonian_power_system)

### **Large-scale wind integration impact on the Baltic region's electricity market participants in 2025 - with and without RES subsidies**

**Drovtar, Imre; Landsberg, Mart; Kilter, Jako; Rosin, Argo** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 117-121 : ill

### **Load control implementation in the energy intensive industry**

**Uuemaa, Priit; Valtin, Juhan; Kilter, Jako; Puusepp, Allan; Drovtar, Imre; Rosin, Argo** 17th IEEE Mediterranean Electrotechnical Conference, Beirut, Lebanon, 13-16 April 2014 2014 / p. 213-218 : ill <https://doi.org/10.1109/MELCON.2014.6820534> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Madalpingevõrkudes kasutatavate seadmete isolatsiooni koordineerimine. Osa 3, Ühe- ja kahepoolsete pinnakatete ning kompaundivormide kasutamine saastekaitseks = Insulation coordination for equipment within low-voltage systems. Part 3, Use of coating, potting or moulding for protection against pollution (IEC 60664-3:2003/A1:2010)**

2011 [https://www.ester.ee/record=b2743110\\*est](https://www.ester.ee/record=b2743110*est)

### **Magnetic current sensor stray components in high frequency operation and their effects**

**Kütt, Lauri; Järvik, Jaan; Mölder, Heigo; Kilter, Jako; Shafiq, Muhammad** Conference proceedings : 2012 11th International Conference on Environment and Electrical Engineering : Venice, Italy, 18-25 May 2012 2012 / p. 617-620 : ill

<https://ieeexplore.ieee.org/abstract/document/6221451>

### **Maximum risk calculation process for individual substation equipment in primary side**

**Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Landsberg, Mart** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863055>

### **Measurement and operation based condition monitoring methodology for high voltage circuit breakers**

**Asefi, Sajjad; Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Kalmet, Tauri; Manninen, Henri; Landsberg, Mart** 2022 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) : proceedings 2022 / Art. 184786

<https://doi.org/10.1109/ISGT-Europe54678.2022.9960521>

### **Methodology for forecasting the cost of substation asset management in upcoming future**

**Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Landsberg, Mart** 2024 IEEE International Conference on Power and Energy (PECon) 2024 / p. 185-190 <https://doi.org/10.1109/PECon62060.2024.10826804>

### **MIGRATE - research enabling 100% renewable generation in future power systems**

**Löper, Mari; Kangro, Triin; Tuttelberg, Kaur; Tealane, Marko; Kilter, Jako** 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 175-181 : ill [http://ise.elnet.ee/record=b2950104~S2\\*est](http://ise.elnet.ee/record=b2950104~S2*est)

### **Modal transformation matrices for phasor measurement based line parameter estimations**

**Tuttelberg, Kaur; Kilter, Jako** International Conference on Power Systems Transients (IPST 2015) : 15th-18th of June 2015, Cavtat, Croatia 2015 / [6] p. : ill

### **Model verification for analysis of wind power impact to transient stability in isolated power system using combined relay protection and dynamics modelling approach**

**Maripuu, Rain; Tsernobrovkin, Oleg; Palu, Ivo; Kilter, Jako** PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 169-174 : ill

<https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=6256222>

### **Modeling and analysis of the synchronous generators excitation systems**

**Slenduhhov, Vadim; Kilter, Jako** 13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 14-19, 2013 2013 / p. 252-257 : ill

### **Modeling and analysis of voltage unbalance and its influence on transmission network and power quality**

**Sarnet, Tanel; Kilter, Jako** Electrical and Control Technologies : proceedings of the 7th International Conference on Electrical and Control Technologies ECT-2012 2012 / p. 179-182 : ill

### **Modelling and estimation of distribution network operation**

**Kilter, Jako; Meldorf, Mati** Scientific proceedings of Riga Technical University. Serija 4, Power and electrical engineering 2007 / p. 103-108 : ill

### **Modelling of distribution level coreless induction furnace for rapid voltage change assessment**

**Trummal, Tarmo; Sarnet, Tanel; Kilter, Jako** Electric power systems research 2021 / art. 107151

<https://doi.org/10.1016/j.epsr.2021.107151> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Modelling of high-speed electrical railway system for transmission network voltage quality analysis : Rail Baltic case study**

**Kilter, Jako; Sarnet, Tanel; Kangro, Triin** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 323-328 : ill

**Monitoring of electrical distribution network operation = Jaotusvõrgu talitluse seire**

**Kilter, Jako** 2009 [https://www.ester.ee/record=b2498170\\*est](https://www.ester.ee/record=b2498170*est)

**Monitoring of the distribution network operation**

**Kilter, Jako; Meldorf, Mati** Proceedings of 4th IASME/WSEAS International Conference on Energy & Environment (EE'09) : Cambridge, UK, February 24-26, 2009 2009 / p. 263-268

**Multi-stage deep learning networks for automated assessment of electricity transmission infrastructure using fly-by images**

**Manninen, Henri; Ramlal, Craig J.; Singh, Arvind; Kilter, Jako; Landsberg, Mart** Electric power systems research 2022 / art. 107948 <https://doi.org/10.1016/j.epsr.2022.107948> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Mõõtetrafod. Osa 1, Voolutrafod = Instrument transformers. Part 1, Current transformers (IEC 60044-1:1996, modified)**

2010 [https://www.ester.ee/record=b2646205\\*est](https://www.ester.ee/record=b2646205*est)

**Mõõtetrafod. Osa 3, Lisanõuded induktiivpingetrafodele = Instrument transformers. Part 3, Additional requirements for inductive voltage transformers (IEC 61869-3:2011)**

2012 [https://www.ester.ee/record=b2896163\\*est](https://www.ester.ee/record=b2896163*est)

**Mõõtetrafod. Osa 4, Lisanõuded ühitatud trafodele [Võrguteavik] = Instrument transformers. Part 4, Additional requirements for combined transformers (IEC 61869-4:2013)**

2015 [http://www.ester.ee/record=b4502348\\*est](http://www.ester.ee/record=b4502348*est)

**National implementation challenges and support by ENTSO-E for European connection network codes**

Urdal, Helge; Haesen, E.; **Kilter, Jako** 14th Workshop on Large-Scale Integration of Wind Power into Power Systems as well as on Transmission Networks for Offshore Wind Power Plants : 20-22 October 2015, Brussels, Belgium : proceedings 2015

**National Implementation in Estonia of COMMISSION REGULATION (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators**

**Kilter, Jako** 15th Wind Integration Workshop : International Workshop on Large-Scale Integration of Wind Power into Power Systems as well as on Transmission Networks for Offshore Wind Power Plants : 15-17 November 2016, Vienna, Austria 2016 / p. 1-6

**Non-intrusive defects identification for the high voltage instrument transformers**

**Asefi, Sajjad; Kilter, Jako; Landsberg, Mart** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227493>

**Novel gramian-based structure-preserving model order reduction for power systems with high penetration of power converters**

**de Morais Dias Campos, Nathalia; Sarnet, Tanel; Kilter, Jako** IEEE transactions on power systems 2023 / p. 5381-5391 <https://doi.org/10.1109/TPWRS.2022.3228458> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Nõuded jaotusvõrkudega paralleelselt ühendatud tootmisüksustele. Osa 2, Ühendus keskpingejaotusvõrguga.**

**Tootmisüksused kuni tüübini B (kaasa arvatud) [Võrguteavik] = Requirements for generating plants to be connected in parallel with distribution networks. Part 2, Connection to a MV distribution network. Generating plants up to and including Type B**

2021 [https://www.ester.ee/record=b5480840\\*est](https://www.ester.ee/record=b5480840*est)

**Nõuded jaotusvõrkudega paralleelselt ühendatud tootmisüksustele. Osa 1, Ühendus madalpingejaotusvõrguga.**

**Tootmisüksused kuni tüübini B (kaasa arvatud) [Võrguteavik] = Requirements for generating plants to be connected in parallel with distribution networks. Part 1, Connection to a LV distribution network. Generating plants up to and including Type B**

2021 [https://www.ester.ee/record=b5428205\\*est](https://www.ester.ee/record=b5428205*est)

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