

**Accuracy of voltage instrument transformers for harmonic measurements in Elering's 330-kV-transmission network**

Meyer, Jan; Stiegler, Robert; **Kilter, Jako** PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 85-90 : ill  
<https://doi.org/10.1109/PQ.2016.7724094>

**Adaptive chaotic class topper optimization to solve Non-convex CHPED problems in power systems**

**Gupta, Pradeep Kumar; Tuttlberg, Kaur; Kilter, Jako** 2024 IEEE PES Innovative Smart Grid Technologies - Asia (ISGT Asia) 2024 / 6 p. <https://doi.org/10.1109/ISGTAsia61245.2024.10876314>

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

**Gupta, Pradeep Kumar; Gupta, Anju Kumari; Tuttlberg, Kaur; Kilter, Jako** 2025 15th International Conference on Power, Energy, and Electrical Engineering (CPEEE) 2025 / p. 195-199 <https://doi.org/10.1109/CPEEE64598.2025.10987339>

**Advanced condition monitoring method for high voltage overhead lines based on visual inspection**

**Manninen, Henri; Kilter, Jako; Landsberg, Mart** 2018 IEEE Power & Energy Society General Meeting (PESGM 2018) : Portland, Oregon, USA, 5-10 August 2018 2018 / p. 2321-2325 : ill <https://doi.org/10.1109/PESGM.2018.8586498>

**Advanced methodology for estimation of value of lost load (VOLL) using equipment specific health indices**

**Manninen, Henri; Kilter, Jako; Landsberg, Mart** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p <https://doi.org/10.1109/PQ.2019.8818245>

**Aggregated demand-side energy flexibility : a comprehensive review on characterization, forecasting and market prospects**

**Plaum, Freddy; Ahmadiyahangar, Roya; Rosin, Argo; Kilter, Jako** Energy reports 2022 / p. 9344-9362  
<https://doi.org/10.1016/j.egyr.2022.07.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Air-core inductive current sensor for fast transients measurements in distribution networks**

**Kütt, Lauri; Järvik, Jaan; Kilter, Jako; Shafiq, Muhammad; Lehtonen, Matti** PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 249-252 : ill  
[https://www.researchgate.net/publication/261507011\\_Air-core\\_inductive\\_current\\_sensor\\_for\\_fast\\_transients\\_measurements\\_in\\_distribution\\_networks](https://www.researchgate.net/publication/261507011_Air-core_inductive_current_sensor_for_fast_transients_measurements_in_distribution_networks)

**Alalisvooluülekande türistorventiilid. Osa 2, Terminoloogia [Võrguteavik] = Thyristor valves for high-voltage direct current (HVDC) power transmission. Part 2, Terminology (IEC 60700-2:2016+IEC 60700-2:2016/AMD1:2021)**

2022 [https://www.ester.ee/record=b5485873\\*est](https://www.ester.ee/record=b5485873*est)

**Alalisvooluülekande türistorventiilid. Osa 2, Terminoloogia [Võrguteavik] = Thyristor valves for high-voltage direct current (HVDC) power transmission. Part 2, Terminology (IEC 60700-2:2016)**

2020 [https://www.ester.ee/record=b5329543\\*est](https://www.ester.ee/record=b5329543*est)

**Alalisvooluülekanne [Võrguteavik] : sõnastik = High-voltage direct current (HVDC) transmission : vocabulary (IEC 60633:2019)**

2020 [https://www.ester.ee/record=b5307917\\*est](https://www.ester.ee/record=b5307917*est)

**Ameliorated quantum class topper optimization to solve economic load dispatch problems**

**Gupta, Pradeep Kumar; Kumari Gupta, Anju; Tuttlberg, Kaur; Kilter, Jako** 2024 3rd International Conference on Energy Transition in the Mediterranean Area (SyNERGY MED) 2024 / 5 p <https://doi.org/10.1109/SyNERGYMED62435.2024.10799422>

**Analysis of the applicability of PMU measurements for power quality assessment**

**Löper, Mari; Trummal, Tarmo; 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  
<https://doi.org/10.1109/ISGTEurope.2018.8571618>

**Analysis of the traction system impact on voltage unbalance distribution in public electric networks**

**Sarnet, Tanel; 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. 238-241 : ill

**Analysis of transmission network short cable line sheath bonding methods**

**Kangro, Triin; Kilter, Jako** 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (IEEEIC / I&CPS Europe), 12-15 June 2018 : conference proceedings 2018 / 6 p.: ill  
<https://doi.org/10.1109/IEEEIC.2018.8493944>

**Andmete- ja andmesidekvaliteedi suurendamine faasimõõteseadmete (PMU) lisamisega Eesti ülekandevõrgu alajaamadesse**

**Kilter, Jako; Leinakse, Madis** 2022

### **Application of transfer learning for instrument transformer condition monitoring**

**Asefi, Sajjad; Kilter, Jako;** Akroud, Nabil; Hurtado, Aritz; Gilbert, Ian; Orue, Inaki 2024 International Conference on Diagnostics in Electrical Engineering (Diagnostika) 2024 / 4 p <https://doi.org/10.1109/Diagnostika61830.2024.10693903>

### **Assessment of corona loss performance on aging transmission lines using PMU measurements**

**Gupta, Pradeep Kumar; Tuttelberg, Kaur; Kilter, Jako** Energy reports 2023 / p. 215-219 <https://doi.org/10.1016/j.egy.2023.09.160>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Assessment of higher harmonics influence to PMU measurement accuracy**

**Löper, Mari; Salumäe, Uku; Kilter, Jako** 2017 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) : Torino, Italy 26-29 September 2017 : Conference Proceedings 2017 / 6 p. : ill <https://doi.org/10.1109/ISGTEurope.2017.8260271>

### **Assessment of synchronous generator's influence on transmission network with significant level of voltage unbalance**

**Sarnet, Tanel; Kilter, Jako** Elektronika ir elektrotehnika = Electronics and electrical engineering 2012 / p. 11-14 : ill  
<https://eejournal.ktu.lt/index.php/elt/article/view/2796>

### **Assessment of transmission network voltage unbalance in connection of high-speed electrical railway connection**

**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. 329-334 : ill

### **Assessment of voltage instrument transformers accuracy for harmonic measurements in transmission systems [Online resource]**

**Stiegler, Robert; Meyer, Jan; Kilter, Jako;** Konzelmann, Simon Proceedings of 2016 17th International Conference on Harmonics and Quality of Power (ICHQP) : Belo Horizonte, Minas Gerais, Brazil, 16-19 October 2016 2016 / p. 152-157 : ill  
<https://doi.org/10.1109/ICHQP.2016.7783472>

### **Avalike elektrivõrkude pinge tunnussuursed = Voltage characteristics of electricity supplied by public electricity networks**

2011 [https://www.ester.ee/record=b2743062\\*est](https://www.ester.ee/record=b2743062*est)

### **Avalike elektrivõrkude pinge tunnussuursed = Voltage characteristics of electricity supplied by public electricity networks [Võrguteavik]**

2015 [http://www.ester.ee/record=b4512339\\*est](http://www.ester.ee/record=b4512339*est)

### **Avalike elektrivõrkude pinge tunnussuursed [Võrguteavik] = Voltage characteristics of electricity supplied by public electricity networks**

2019 [https://www.ester.ee/record=b5273602\\*est](https://www.ester.ee/record=b5273602*est)

### **Avalike elektrivõrkude pinge tunnussuursed [Võrguteavik] = Voltage characteristics of electricity supplied by public electricity networks**

2019 [https://www.ester.ee/record=b5273643\\*est](https://www.ester.ee/record=b5273643*est)

### **Avalike elektrivõrkude pinge tunnussuursed [Võrguteavik] = Voltage characteristics of electricity supplied by public electricity networks**

2019

### **Balti LFC plokki vajalike sageduse hoidmise ja taastamise reservide dimensioneerimine suurenenud taastuvenergiaallikate lisandumise korral**

**Leinakse, Madis; Kilter, Jako** 2023

### **Bare overhead conductor thermal rating calculation on the example of Estonian OHL**

**Šlenduhoov, Vadim; Kilter, Jako** 14th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. II" : Pärnu, Estonia, January 13-18, 2014 2014 / p. 210-213 : ill

### **Benchmarking of power quality performance in transmission systems - CIGRE WG C4.27 perspective [Online resource]**

**Kilter, Jako;** Vujatovic, Davor; Elphick, Sean Proceedings of 2016 17th International Conference on Harmonics and Quality of Power (ICHQP) : Belo Horizonte, Minas Gerais, Brazil, 16-19 October 2016 2016 / p. 949-954 <https://doi.org/10.1109/ICHQP.2016.7783342>

### **Capacitor coupled voltage transformer defect identification in the presence of tap changer**

**Asefi, Sajjad; Leinakse, Madis; Kilter, Jako;** Landsberg, Mart IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2023) : proceedings 2023 / 5 p <https://doi.org/10.1109/isgteurope56780.2023.10408138>

### **Capacitor coupled voltage transformer inaccuracy effect on circuit breaker operation**

**Asefi, Sajjad; Andreesen, Guido; Kilter, Jako;** Landsberg, Mart 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 5 p <https://doi.org/10.1109/EPE58302.2023.10149279>

## **Case studies for power quality monitoring in public distribution grids – some results of working group CIGRE/CIRED C4.112**

Meyer, Jan; **Kilter, Jako** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 85-92 : ill

## **CIGRE/CIRED guidelines for power quality monitoring – measurement locations, processing and presentation of data**

Milanovic, Jovica V.; **Kilter, Jako**; Bollen, M. H. J.; Meyer, Jan Electra 2014 / p. 39-47

## **Class topper optimization approach to solve non-convex combined heat and power economic dispatch problems in power systems**

**Gupta, Pradeep Kumar; Tuttelberg, Kaur; Kilter, Jako** 2024 IEEE International Conference on Power and Energy (PECon) 2024 / p. 179-184 <https://doi.org/10.1109/PECon62060.2024.10827527>

## **Clustering of Transmission System Loads Based on Monthly Load Class Energy Consumptions**

**Leinakse, Madis; Kilter, Jako** 2020 21st International Scientific Conference on Electric Power Engineering (EPE), October 19-21, 2020, Prague, Czech Republic 2020 / 6 p. : ill <https://doi.org/10.1109/EPE51172.2020.9269197>

## **Comparative analysis of HVAC cable metallic sheath modelling approaches for network studies**

**Kangro, Triin; Kilter, Jako**; De Silva, Jeewantha 2018 18th International Conference on Harmonics and Quality of Power (ICHQP 2018) : Ljubljana, Slovenia, 13 – 16 May 2018 2018 / 6 p. : ill <https://doi.org/10.1109/ICHQP.2018.8378924>

## **Comparison of system identification methods applied to analysis of inter-area modes [Online resource]**

**Tuttelberg, Kaur; Kilter, Jako**; Uhlen, Kjetil Proceedings of IPST 2017 2017 / art. 17IPST121, p. 1-6 : ill [http://www.ipstconf.org/Proc\\_IPST2017.php](http://www.ipstconf.org/Proc_IPST2017.php)

## **Compliance assessment of a phasor measurement unit to IEC 61000-4-30 class a for power quality measurements in transmission systems**

**Löper, Mari; Kilter, Jako**; Stiegler, Robert; Meyer, Jan 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p <https://doi.org/10.1109/PQ.2019.8818272>

## **Contemporary and future aspects of cost effective power quality monitoring - position paper of CIGRE WG C4.112**

Meyer, Jan; **Kilter, Jako** PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 83-88 : ill <https://ieeexplore.ieee.org/abstract/document/6256208/similar#similar>

## **Continuous monitoring of power system inertia and transmission loss components using synchronized phasor measurements = Elektrisüsteemi inertsi ja ülekandekadude komponentide pidev jälgimine faasimõõtmiste abil**

**Tuttelberg, Kaur** 2018 <https://digi.lib.ttu.ee/i/210732> [https://www.ester.ee/record=b5151804\\*est](https://www.ester.ee/record=b5151804*est)

## **Conversion error of exponential to second order polynomial ZIP load model conversion**

**Leinakse, Madis; Kilter, Jako** 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 12-15 June 2018 : conference proceedings 2018 / p. 1-5 <https://doi.org/10.1109/EEEIC.2018.8493667>

## **Conversion error of second order polynomial ZIP to exponential load model conversion**

**Leinakse, Madis; Kilter, Jako** Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER 2018) : Dubrovnik, Croatia, 12-15 November 2018 2018 / 5 p <https://doi.org/10.1049/cp.2018.1882>

## **Correcting systematic errors in corona losses measured with phasor measurement units**

**Tuttelberg, Kaur; Löper, Mari; Kilter, Jako** IEEE transactions on power delivery 2019 / p. 2275-2277 : ill <https://doi.org/10.1109/TPWRD.2019.2917610> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Cost-effective optimization of load shifting in the industry by using intermediate storages**

**Uuemaa, Priit; Kilter, Jako; Valtin, Juhan; Drovtar, Imre; Rosin, Argo; Puusepp, Andres** Conference proceedings of IEEE ISGT Europe 2013 : 4th IEEE/PES Innovative Smart Grid Technologies Europe 2013 / [5] p

## **Cost-efficient improvement of power system's reliability within limited funds**

**Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Landsberg, Mart** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 7 p <https://doi.org/10.1109/RTUCON62997.2024.10830808>

## **Critical PQ phenomena and sources of PQ disturbances in PE rich power systems : Deliverable 5.1 [Online resource]**

**Kilter, Jako; Löper, Mari; Kangro, Triin; Palu, Ivo** 2016 [Deliverable 5.1](#)

## **Current practice and future challenges for power quality monitoring – CIGRE WG C4.112 perspective**

**Kilter, Jako** 2012 IEEE 15th International Conference on Harmonics and Quality of Power : proceedings of ICHQP2012 : Kowloon

**Current practice on power quality legislation within European transmission systems – results from Horizon 2020 project MIGRATE**

**Kilter, Jako; Trummal, Tarmo; Löper, Mari; Palu, Ivo** 2020 19th International Conference on Harmonics and Quality of Power (ICHQP), 6-7 July 2020, Dubai, UAE 2020 <https://doi.org/10.1109/ICHQP46026.2020.9177907>

**Data-driven asset management and condition assessment methodology for transmission overhead lines = Ülekandevõrgu õhuliinide andmepõhine varahalduse ja seisundi hindamise metoodika**

**Manninen, Henri** 2022 <https://doi.org/10.23658/taltech.4/2022> <https://digikogu.taltech.ee/et/Item/b0c60eaf-b740-4df5-bead-0dd793d5e6c8> [https://www.ester.ee/record=b5491207\\*est](https://www.ester.ee/record=b5491207*est)

**Data-driven quantification and aggregation of demand-side flexibility for symmetrical bidding in energy balancing markets**

**Shahid, Arqum; Ahmadiyahangar, Roya; Kilter, Jako; Rosin, Argo** Electric Power Systems Research 2025 / art. 111823 <https://doi.org/10.1016/j.epr.2025.111823>

**Demand side management in small power systems - the Estonian case study**

**Drovtar, Imre; Rosin, Argo; Kilter, Jako** Elektronika ir elektrotehnika = Electronics and electrical engineering 2016 / p. 13-19 : ill <https://doi.org/10.5755/j01.eie.22.3.15308> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Demand side management possibilities and viability for voltage support services in Estonia = Tarbimise juhtimise võimaluste uurimine ning rakendatavus pinge reguleerimise teenusteks Eestis**

**Drovtar, Imre** 2016 <http://digi.lib.ttu.ee/i/?6032> [https://www.ester.ee/record=b4601226\\*est](https://www.ester.ee/record=b4601226*est)

**Demand side management potential in Estonia - a case study for the wood industry**

**Drovtar, Imre; Rosin, Argo; Kilter, Jako** 14th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. II" : Pärnu, Estonia, January 13-18, 2014 2014 / p. 94-97 : ill

**Demonstration of mitigation measures and clarification of unclear grid code requirements : Deliverable D1.6 [Online resource]**

Rüberg, S.; Sewdien, V.; Rueda Torres, J. L.; **Kilter, Jako** 2019 [Deliverable D1.6](#)

**Design of high-frequency transient current sensor for powerline on-line measurement**

**Kütt, Lauri; Järvi, Jaan; Kilter, Jako; Shafiq, Muhammad; Lehtonen, Matti** Electrical and control technologies : proceedings of the 7th international conference on electrical and control technologies ECT-2012 2012 / p. 212-216 : ill <https://research.aalto.fi/fi/publications/design-of-high-frequency-transient-current-sensor-for-powerline-o>

**Determining cost-efficient sequence of condition inspection based on estimated condition data**

**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/ISGTEUROPE62998.2024.10863436>

**Development of a Substation Risk-Based Asset Management Decision-Making Process in the Case of Insufficient Information = Alajaama riskipõhise varahalduse otsustusprotsessi arendamine ebapiisava sisendteabe tingimustes**

**Andreesen, Guido** 2025 [https://www.ester.ee/record=b5754736\\*est](https://www.ester.ee/record=b5754736*est) <https://digikogu.taltech.ee/et/Item/49e349b9-c62b-4a9e-af14-5c8408e54028> <https://doi.org/10.23658/taltech.52/2025>

**Development of realtime co-simulation platform harnessing consumer energy flexibility through an aggregator to provide grid support**

**Shabbir, Noman; Ahmadiyahangar, R; Rosin, Argo; Kilter, Jako; Martins, Joao** IEEE Transactions on Consumer Electronics 2024 / p. 6641-6652 <https://doi.org/10.1109/TCE.2024.3470241> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Distribution network state monitoring**

**Meldorf, Mati; Treufeldt, Ülo; Kilter, Jako** Scientific proceedings of Riga Technical University. Serija 4, Power and electrical engineering 2005 / p. 80-85 : ill

**Dynamic Time Warping Technique for Condition Monitoring of High Voltage Circuit Breakers**

**Asefi, Sajjad; Kilter, Jako** 2025 15th International Conference on Power, Energy, and Electrical Engineering (CPEEE) 2025 / p. 38-42 <https://doi.org/10.1109/CPEEE64598.2025.10987408>

**Economic impact of renewable electricity generation on the Baltic region's electricity market**

**Drovtar, Imre; Landsberg, Mart; Kilter, Jako; Rosin, Argo** Przegląd elektrotechniczny = Electrical review 2012 / p. 161-165 : ill [https://www.academia.edu/80501050/Economic\\_impact\\_of\\_renewable\\_electricity\\_generation\\_on\\_the\\_Baltic\\_regions\\_electricity\\_market](https://www.academia.edu/80501050/Economic_impact_of_renewable_electricity_generation_on_the_Baltic_regions_electricity_market)

**Eesti elektrisüsteemi laiseiresüsteemi arendamine ja analüüs (WAMPAC) : uurimustöö 1.1-4/13/232 / Lep13118 I etapi**

#### **aruanne [Võrguväljaanne]**

**Palu, Ivo; Valdma, Mati; Meldorf, Mati; Keel, Matti; Šuvalova, Jelena; Šlenduhhov, Vadim; Kangro, Triin; Vaino, Sander; Sarnet, Tanel; Kilter, Jako; Ülavere, Eero; Reinson, Andrus** 2014

#### **Eesti elektrisüsteemi laiseiresüsteemi arendamine ja analüüs (WAMPAC) : uurimustöö 1.1-4/13/232 / Lep13118 II etapi aruanne [Võrguväljaanne]**

**Palu, Ivo; Meldorf, Mati; Šuvalova, Jelena; Liiv, Innar; Tuttelberg, Kaur; Kangro, Triin; Astapov, Victor; Sarnet, Tanel; Šlenduhhov, Vadim; Kilter, Jako; Ülavere, Eero; Reinson, Andrus** 2014

#### **Eesti elektrisüsteemi ülekandevõrgu koormuste staatilised ja dünaamilised karakteristikud : uurimistöö 1.1-4/2015/227 / Lep 15066 I etapi lõpparuanne [Võrguteavik]**

**Treufeldt, Ülo; Leinakse, Madis; Salumäe, Uku; Sarnet, Tanel; Meldorf, Mati; Kilter, Jako; Reinson, Andrus; Drovтар, Imre** 2015  
[http://elering.ee/public/Infokeskus/Uuringud/Koormuste\\_karakteristikud.pdf](http://elering.ee/public/Infokeskus/Uuringud/Koormuste_karakteristikud.pdf)

#### **Eesti elektrisüsteemi ülekandevõrgu koormuste staatilised ja dünaamilised karakteristikud : uurimistöö 1.1-4/2015/227/ Lep 15066 lõpparuanne [Võrguteavik]**

**Treufeldt, Ülo; Meldorf, Mati; Leinakse, Madis; Sarnet, Tanel; Salumäe, Uku; Kilter, Jako; Krusell, Kaur; Reinson, Andrus; Matjas, Ilja** 2017 [Eesti elektrisüsteemi ülekandevõrgu koormuste staatilised ja dünaamilised karakteristikud](#)

#### **Eesti elektrisüsteemi ülekandevõrgu koormuste staatilised ja dünaamilised karakteristikud : uurimistöö 1.1-4/2015/227/ Lep 15066 II etapi lõpparuanne [Võrguteavik]**

**Treufeldt, Ülo; Meldorf, Mati; Leinakse, Madis; Sarnet, Tanel; Salumäe, Uku; Kilter, Jako; Krusell, Kaur; Reinson, Andrus; Matjas, Ilja** 2016  
<https://elering.ee/sites/default/files/attachments/Eesti%20elektis%C3%BCsteemi%20%C3%BClekandev%C3%B5rgu%20koormuste%20staatilisest%20ja%20d%C3%BCnaamilisest%20karakteristikust%202.etapp%202016.pdf>

#### **Electrical network load monitoring on special days**

**Meldorf, Mati; Treufeldt, Ülo; Kilter, Jako** Scientific proceedings of Riga Technical University. Serija 4, Power and electrical engineering 2006 / p. 19-23 : ill

#### **Electricity consumption analysis and power quality monitoring in commercial buildings**

**Drovтар, Imre; Niitsoo, Jaan; Rosin, Argo; Kilter, Jako; Palu, Ivo** PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 107-112 : ill  
<https://ieeexplore.ieee.org/document/6256212>

#### **Elektriraudtee ja selle mõjud elektrisüsteemi talitlusele**

**Kilter, Jako; Kangro, Triin; Sarnet, Tanel; Palu, Ivo** 2015 [https://www.ester.ee/record=b4495599\\*est](https://www.ester.ee/record=b4495599*est)

#### **Elektrisüsteemi stabiilsus**

**Meldorf, Mati; Kilter, Jako** 2011 [http://www.ester.ee/record=b2753320\\*est](http://www.ester.ee/record=b2753320*est)

#### **Elektrituulikud. Osa 21, Elektrivõrguga ühendatud elektrituulikute elektri kvaliteedi näitajate mõõtmine ja hindamine = Wind turbines. Part 21, Measurement and assessment of power quality characteristics of grid connected wind turbines (IEC 61400-21:2008)**

2010 [https://www.ester.ee/record=b4274376\\*est](https://www.ester.ee/record=b4274376*est)

#### **Elektrivõrgu operatiivjuhtimissüsteem**

**Meldorf, Mati; Tikk, Tõnis; Kilter, Jako** 2010 [http://www.ester.ee/record=b2668039\\*est](http://www.ester.ee/record=b2668039*est)

#### **Elektriõhuliinid vahelduvpingega üle 1 kV. Osa 2-20, Eesti riiklikud erinõuded (SEN) [Võrguteavik] = Overhead electrical lines exceeding AC 1 kV. Part 2-20, National Normative Aspects (NNA) for Estonia (based on EN 50341-1:2012)**

2018 [https://www.ester.ee/record=b5186383\\*est](https://www.ester.ee/record=b5186383*est)

#### **Enefit oil factory (Enefit 280 and Enefit 280-2) plant controller algorithm**

**Sarnet, Tanel; Kilter, Jako** 2022

#### **Energeetikud: Eestis on suure elektrikatkestuse tekkimine vähetõenäoline**

err.ee 2025 <https://www.err.ee/1609678931/energeetikud-eestis-on-suure-elektrikatkestuse-tekkimine-vahetoenaoiline>

#### **Energy experts: Major power outage unlikely in Estonia**

err.ee 2025 <https://news.err.ee/1609679186/energy-experts-major-power-outage-unlikely-in-estonia>

#### **Energy storage facilities impact on flexibility of active distribution networks: stochastic approach**

**Alipour, Manijeh; Gharehpetian, Gevork B.; Ahmadihangar, Roya; Rosin, Argo; Kilter, Jako** Electric power systems research 2022 / art. 108645 <https://doi.org/10.1016/j.epr.2022.108645> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Estimation and conversion of static load models of aggregated transmission system loads = Ülekandevõrgu sõlmekoormuste staatiliste koormusmodelite määramine ja teisendamine**

**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)

**Estimation of distribution network state on the basis of a mathematical load model**

**Meldorff, Mati; Treufeldt, Ülo; Kilter, Jako** Oil shale 2005 / 2S, p. 161-170 [https://artiklid.elnet.ee/record=b2346713\\*est](https://artiklid.elnet.ee/record=b2346713*est)

**Estimation of exponential and ZIP load model of aggregated load with distributed generation**

**Leinakse, Madis; Andreesen, Guido; Tani, Pärtel; Kilter, Jako** 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2021 / p. 1-6 <https://doi.org/10.1109/RTUCON53541.2021.9711702>

**Estimation of power system inertia from ambient wide area measurements**

**Tuttelberg, Kaur; Kilter, Jako; Wilson, Douglas; Uhlen, Kjetil** IEEE transactions on power systems 2018 / p. 7249-7257  
<https://doi.org/10.1109/TPWRS.2018.2843381> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Estimation of power system inertia from ambient wide area measurements**

**Tuttelberg, Kaur; Kilter, Jako; Wilson, Douglas; Uhlen, Kjetil** 2019 IEEE Power & Energy Society General Meeting (PESGM) 2019 / 1 p <https://doi.org/10.1109/PESGM40551.2019.8973822>

**Estimation of transmission loss components from phasor measurements**

**Tuttelberg, Kaur; Kilter, Jako** International journal of electrical power & energy systems 2018 / p. 62-71 : ill  
<https://doi.org/10.1016/j.ijepes.2017.11.040> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**EstLink 1 ja EstLink 2 : sarnased või sootuks erinevad elektriühendused Soomega?**

**Haug, Reigo; Kilter, Jako** Inseneeria 2014 / lk. 34-35 [https://artiklid.elnet.ee/record=b2664996\\*est](https://artiklid.elnet.ee/record=b2664996*est)

**Estonian WAMS system - implementation and experiences**

**Kilter, Jako; Goloshchapov, A.; Mahkovec, B.** 3rd International Scientific and Technical Conference - Actual Trends in Development of Power System Protection and Automation : St. Petersburg, 30.05-03.06.2011 : conference proceedings 2011

**EU regulation establishing a network code on requirements for grid connection of generators**

**Pfeiffer, R.; 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

**Euroopa kobab pimeduses: miks kadus Lõuna-Euroopas ootamatult elekter?**

**Kivi, Krister** postimees.ee 2025 <https://majandus.postimees.ee/8241615/luubi-all-euroopa-kobab-pimeduses-miks-kadus-louna-euroopas-ootamatult-elekter>

**Euroopa standardi EN 50160 rakendusjuhend = Guide for the application of the European Standard EN 50160**

**[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]  
<http://dx.doi.org/10.1109/ISGT.2015.7131833>

**Experiences with steady-state PMU compliance testing using standard relay testing equipment**

**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

**Exponential to ZIP and ZIP to exponential load model conversion : methods and error**

**Leinakse, Madis; Kilter, Jako** IET generation, transmission & distribution 2021 / p. 177-193 <https://doi.org/10.1049/gtd2.12002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fault simulation and analysis of high-voltage circuit breaker's spring charging mechanism using a universal motor model**

**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  
<https://doi.org/10.1109/RTUCON62997.2024.10830846>

**First results on load model estimation using digital fault recorder measurements**

**Leinakse, Madis; Sarnet, Tanel; Kangro, Triin; Kilter, Jako** 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 101-105 : ill [http://www.ester.ee/record=b4650094\\*est](http://www.ester.ee/record=b4650094*est)

### **Forecasting Corona Losses on High Voltage Transmission Lines Using Machine Learning**

**Gupta, Pradeep Kumar; Tuttlberg, Kaur; Kilter, Jako** IEEE transactions on power delivery 2025 / p. 2696-2705  
<https://doi.org/10.1109/TPWRD.2025.3593923>

### **Future power system out-of-step protection concept utilizing synchronized phasor measurements = Tuleviku elektrisüsteemi faasimõõtmistel põhinev sünkronismikaotuskaitse kontseptsioon**

**Tealane, Marko** 2023 <https://doi.org/10.23658/taltech.9/2023> <https://digikogu.taltech.ee/et/Item/159731eb-e93e-4892-875f-3806cd16e64c>  
[https://www.ester.ee/record=b5542953\\*est](https://www.ester.ee/record=b5542953*est)

### **Future system challenges in Europe. Contributions to solutions from connection network codes**

**Urdal, Helge; Martinez Villanueva, Sergio; Kilter, Jako; Jahn, Jörg; Sprooten, Jonathan; Baranauskas, Audrius** 2016 CIGRE USNC International Colloquium on Evolution of Power System Planning to Support Connection of Generation, Distributed Resources and Alternative Technologies : 02-03 November 2016, Philadelphia, USA : proceedings 2016 / p. 1-8 : ill

### **A Gramian-based tool for modeling converter-dominated power systems**

**de Morais Dias Campos, Nathalia; Sarnet, Tanel; Kilter, Jako** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863396>

### **Guidelines for power quality monitoring – results from CIGRE/CIREN JWG C4.112**

**Kilter, Jako; Elphick, Sean; Meyer, Jan; Milanovic, Jovica V.** Proceedings of 2014 16th International Conference on Harmonics and Quality of Power (ICHQP) : University POLITEHNICA of Bucharest, Bucharest, Romania, 25-28 May 2014 2014 / p. 703-707 : tab

### **Guidelines for power quality monitoring : measurement locations, processing and presentation of data**

**Milanovic, Jovica V.; Kilter, Jako** 2014

### **Harku Estlink 1 ja Kiisa AREJ-de koostöö uuring**

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

### **Harmonic emissions of power electronic devices under different transmission network operating conditions**

**Božicek, Ambrož; Kilter, Jako; Sarnet, Tanel; Papic, Igor; Blažis, Boštjan** IEEE transactions on industry applications 2018 / p. 5216-5226 : ill <https://doi.org/10.1109/TIA.2018.2808478> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Harmonic levels of domestic and electrical vehicle loads in residential distribution networks**

**Niitsoo, Jaan; Kilter, Jako; Palu, Ivo; Taklaja, Paul; Kütt, Lauri** Proceedings of IEEE AFRICON 2013 Conference : 9-12 September 2013, Mauritius 2013 / p. 184-188 <https://doi.org/10.1109/AFRICON.2013.6757800> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Health index prediction of overhead transmission lines : a machine learning approach**

**Manninen, Henri; Kilter, Jako; Landsberg, Mart** IEEE transactions on power delivery 2022 / p. 50-58  
<https://doi.org/10.1109/TPWRD.2021.3052721> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **High voltage circuit breaker charging motor's condition monitoring - importance, possibilities, and challenges**

**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>

### **High voltage circuit breaker health index Evaluation considering measurement accuracy**

**Asefi, Sajjad; Kilter, Jako; Shayesteh, Ebrahim; Hilber, Patrik; Lindquist, Tommie** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863019>

### **High-frequency current sensor for power network on-line measurements**

**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)

### **A holistic D-PMU optimal placement framework considering pragmatic constraints in smart grids**

**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.  
<https://doi.org/10.1109/CPE-POWERENG54966.2022.9880881>

### **A holistic risk-based maintenance methodology for transmission overhead lines using tower specific health indices and value of loss load**

**Manninen, Henri; Kilter, Jako; Landsberg, Mart** International journal of electrical power and energy systems 2022 / art. 107767 ; 11 p. : ill <https://doi.org/10.1016/j.ijepes.2021.107767> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **HVDC connection of offshore wind power plants**

**Elahi, H.; Kilter, Jako; Ebner, G.** 2015

## **Identification of intra-day variations of static load characteristics based on measurements in high-voltage transmission network**

**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  
<https://doi.org/10.1109/ISGTEurope.2018.8571712>

## **Impact of distributed generation on estimation of exponential load models**

**Leinakse, Madis; Tani, Pärtel; Kilter, Jako** 2019 IEEE Power & Energy Society General Meeting (PESGM) 2019 / 5 p. : ill  
<https://doi.org/10.1109/PESGM40551.2019.8974014>

## **Impact of voltage instrument transformers on the accuracy of harmonic measurements in a 330 kV transmission grid**

Meyer, Jan; Stiegler, Robert; Schegner, Peter; **Kilter, Jako** Instrument Transformer Measurement Forum (ITMF) : October 13-15, 2015, Feldkirch, Austria 2015

## **Impacts of large scale wind integration on the Baltic region's thermal power plant economics and electricity market in 2025 [Electronic resource]**

**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)

## **Incorporating service type in aging failure model of high voltage circuit breaker**

**Asefi, Sajjad; Kilter, Jako; Landsberg, Mart** 2023 27th International Conference Electronics : proceedings 2023 / 5 p  
<https://doi.org/10.1109/IEEECONF58372.2023.10177602>

## **Industrial CHP optimal management in the energy market under incomplete information**

**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

## **Influence of electric railway system on voltage unbalance distribution between high voltage and low voltage electrical networks**

**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)

## **Influence of system protection to Estonian power system security**

**Kilter, Jako; Reinson, Andrus; Kraav, Rein** PQ2010 : 7th International Conference "2010 Electric Power Quality and Supply Reliability" : June 16-18, 2010, Kuressaare, Estonia 2010 / p. 23-28 : ill

## **Info-gap-based optimization of microgrids integrated with power, cooling and hydrogen generation units**

**Mahmoudnezhad, Fayeze; Mirzaei, Mohammad Amin; Plaum, Freddy; Ahmadiyahangar, Roya; Kilter, Jako; Rosin, Argo** 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 7 p  
<https://doi.org/10.1109/CPE-POWERENG54966.2022.9880860>

## **Integrating Attention-Based LSTM with XGBoost for Improved Residential DC Load Forecasting**

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

## **Integration of Wide Area Monitoring technology and enhancement of power system reliability in Baltic power system**

**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 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)

**Online detection of out-of-step condition using PMU-determined system impedances**

**Tealane, Marko; Kilter, Jako; Popov, Marjan; Bagleybter, Oleg; Klaar, Danny** IEEE Access 2022 / p. 14807-14818

<https://doi.org/10.1109/ACCESS.2022.3149103> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Optimal introduction of a nuclear power plant in Estonia under uncertain conditions**

Landsberg, Mart; **Tammoja, Heiki; Kilter, Jako** 6th International Conference "2008 Power Quality and Supply Reliability" : August 27-29, 2008 : Pärnu, Estonia : conference proceedings 2008 / p. 211-216 : ill

### **Optimal placement of branch PMUs for specified redundancy and line observability**

**Tuttelberg, Kaur; Kilter, Jako** 2015 IEEE Power & Energy Society General Meeting (PESGM 2015) : Denver, CO, USA, July 26-30, 2015 / [5] p. : ill <http://dx.doi.org/10.1109/PESGM.2015.7286453>

### **Optimal reactive power control in a multi-machine thermal power plant**

**Trummal, Tarmo; Andreesen, Guido; Kilter, Jako** 2020 21st International Scientific Conference on Electric Power Engineering (EPE), October 19-21, 2020, Prague, Czech Republic 2020 <https://doi.org/10.1109/EPE51172.2020.9269239>

### **Out-of-step protection based on discrete angle derivatives**

**Tealane, Marko; Kilter, Jako; Bagleybter, Oleg; Heimisson, Birkir; Popov, Marjan** IEEE Access 2022 / p. 78290-78305

<https://doi.org/10.1109/ACCESS.2022.3193390> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Phasor measurement units performance assessment during power system disturbances using real-time digital simulator**

**Trummal, Tarmo; Kilter, Jako; Löper, Mari; Palu, Ivo** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 8 p. : ill <https://doi.org/10.1109/PQ.2019.8818247>

### **Pingemuunduritega alalisvoolusüsteemide terminoloogia [Võrguteavik] = Terminology for voltage-sourced converters (VSC) for high-voltage direct current (HVDC) systems (IEC 62747:2014+IEC 62747:2014/A1:2019)**

2020 [https://www.ester.ee/record=b5352701\\*est](https://www.ester.ee/record=b5352701*est)

### **Possibilities and analysis of integration of large-scale offshore wind parks into Estonian power system**

**Kilter, Jako; Tšernobrovkin, Oleg; Landsberg, Mart; Agabus, Hannes; Palu, Ivo** 8th International Workshop on Large Scale Integration of Wind Power and on Transmission Networks for Offshore Wind Farms : Bremen, Germany, 14-15 October, 2009 2009 / p. 624-629

### **Predicting frequency disturbances from wide area monitoring of ambient power system dynamics**

**Tuttelberg, Kaur; 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 <https://doi.org/10.1109/ISGTEurope.2018.8571711>

### **Preliminary study on comparative load modelling in PSS/E and PSCAD**

**Leinakse, Madis; Kapp, Henry; 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. 197-199 : ill [http://ise.elnet.ee/record=b2950110~S2\\*est](http://ise.elnet.ee/record=b2950110~S2*est)

### **Presentation of the European project MIGRATE**

Grasset, H.; Popov, M.; Zargar, B.; **Kilter, Jako** Eight Protection, Automation and Control (PAC) World Conference : Wroclaw, Poland, 27-29 June 2017 2017 / p. THA05, [6] p

### **Processing and filtering digital fault recorder events for load model estimation**

**Leinakse, Madis; Kilter, Jako** 2021 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 8-21 October, 2021 : proceedings 2021 / 5 p <https://doi.org/10.1109/ISGTEurope52324.2021.9640026>

### **Purtse hybrid power plant common plant controller algorithm**

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

### **Purtse hybrid power plant connection studies and Grid Code compliance assessment**

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

### **Purtse hybrid power plant PSCAD and PSS/E models**

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

### **Puust ja punaseks: mida Venemaa sagedusalast lahkumine tähendab?**

Piir, Rait novaator.err.ee 2025 [Puust ja punaseks: mida Venemaa sagedusalast lahkumine tähendab?](#)

### **Quantification of corona discharge intensity applied to sphere-plane configurations**

**Gupta, Pradeep Kumar; Ruiz, Jordi-Roger Riba; Tuttelberg, Kaur; Kilter, Jako** IEEE Transactions on Dielectrics and Electrical Insulation 2025 <https://doi.org/10.1109/TDEI.2025.3562196>

### **Rahvusvaheline elektrotehnika sõnastik. Osa 321, Mõõtetrafod [Võrguteavik] = International Electrotechnical Vocabulary. Chapter 321, Instrument transformers (IEC 60050-321:1986)**

2017 [http://www.ester.ee/record=b4770371\\*est](http://www.ester.ee/record=b4770371*est)

**Rahvusvaheline elektrotehnika sõnastik. Osa 421, Jõutrafod ja reaktorid [Võrguteavik] = International Electrotechnical Vocabulary. Chapter 421, Power transformers and reactors (IEC 60050-421:1990) / Eesti Standardikeskus**

2017 [http://www.ester.ee/record=b4751512\\*est](http://www.ester.ee/record=b4751512*est)

**Rahvusvaheline elektrotehnika sõnastik. Osa 436, Jõukondensaatorid [Võrguteavik] = International Electrotechnical Vocabulary. Chapter 436, Power capacitors (IEC 60050-436:1990)**

2017 [http://www.ester.ee/record=b4770422\\*est](http://www.ester.ee/record=b4770422*est)

**Rahvusvaheline elektrotehnika sõnastik. Osa 448, Elektrisüsteemi kaitse [Võrguteavik] = International Electrotechnical Vocabulary. Part 448, Power system protection (IEC 60050-448:1995)**

2017 [http://www.ester.ee/record=b4771190\\*est](http://www.ester.ee/record=b4771190*est)

**Rahvusvaheline elektrotehnika sõnastik. Osa 614, Elektri tootmine, ülekandmine ja jaotamine. Käit [Võrguteavik] = International Electrotechnical Vocabulary (IEV). Chapter 614, Generation, transmission and distribution of electricity. Operation (IEC 60050-614:2016)**

2017 [http://www.ester.ee/record=b4751531\\*est](http://www.ester.ee/record=b4751531*est)

**Ramping behaviour analysis of wind farms**

**Mishra, Sambeet; Leinakse, Madis; Palu, Ivo; Kilter, Jako** 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 12-15 June 2018 : conference proceedings 2018 / 5 p.: ill <https://doi.org/10.1109/EEEIC.2018.8493720>

**Ratio of load curtailment based detection of the maximum risk of substation devices**

**Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Landsberg, Mart** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2023) : proceedings 2023 / 5 p <https://doi.org/10.1109/ISGTEUROPE56780.2023.10408265>

**Reaktiivenergia tarbimise analüüs Tallinna Tehnikaülikooli hoonetes [Elektroniline publikatsioon]**

**Kangro, Triin; Kilter, Jako; Palu, Ivo** 2015

**Real-time estimation of transmission losses from PMU measurements**

**Tuttelberg, Kaur; Kilter, Jako** IEEE PowerTech 2015 : Eindhoven, Holland, 29 June-02 July, 2015 2015 / [5] p. : ill <http://dx.doi.org/10.1109/PTC.2015.7232313>

**Real-time testing of out-of-step protection devices**

**Tealane, Marko; Kilter, Jako; Pill, Krister** 2021 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 8-21 October, 2021 : proceedings 2021 / 5 p <https://doi.org/10.1109/ISGTEurope52324.2021.9640178>

**Reinforcement learning for optimal renewable energy sources scheduling**

**Nejad, Hamid Mohammad; Asefi, Sajjad; Kilter, Jako** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863772>

**Residential load harmonics in distribution grid**

**Niitsoo, Jaan; Palu, Ivo; Kilter, Jako; Taklaja, Paul; Vaimann, Toomas** The 3rd International Conference on Electric Power and Energy Conversion Systems (EPECS 2013) : [proceedings] 2013 / p. 1-6 : ill

**Review of high voltage instrument transformer condition monitoring**

**Asefi, Sajjad; Asad, Bilal; Leinakse, Madis; Manninen, Henri; Kilter, Jako; Vaimann, Toomas; Kallaste, Ants; Tealane, Marko; Landsberg, Mart** IEEE Transactions on Dielectrics and Electrical Insulation 2024 / p. 3331-3341 <https://doi.org/10.1109/TDEI.2024.3422260> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Sensitivity analysis of corona discharges measuring instruments using different electrodes and high voltage supplies**

**Gupta, Pradeep Kumar; Riba Ruiz, Jordi-Roger; Casals-Torrens, Pau; Talens i Garvin, Jordi; Tuttelberg, Kaur; Kilter, Jako** IEEE Sensors Letters 2024 / art. 6015704 <https://doi.org/10.1109/LSSENS.2024.3504551>

**Short-circuit wave transient measurements in HV power network**

**Kütt, Lauri; Kilter, Jako; Palu, Ivo** 9th International Symposium "Topical problems in the field of electrical and power engineering". Doctoral school of energy and geotechnology. II : Pärnu, Estonia, June 14-19, 2010 2010 / p. 37-41 : ill

**Short-term PV energy generation forecasting using deep learning**

**Shabbir, Noman; Ahmadiyahangar, Roya; Rosin, Argo; Astapov, Victor; Kilter, Jako** Telematique 2022 <https://www.provinciajournal.com/index.php/telematique/article/view/813>

**Simulation models for power-quality studies in power-electronics rich power networks : Deliverable 5.2 [Online resource]**

**Božiček, Ambrož; Blažič, Boštjan; Špelko, Aljaž; Sarnet, Tanel; Löper, Mari; Kilter, Jako** 2017 [Deliverable 5.2](#)

## **Smooth coordination and management of impact of EstLink 2 transmission testing on electricity markets, power system operations and system technical performance**

Rauhala, T.; Laasonen, M.; **Kilter, Jako** CIGRE Session 2016 : 21-26 August 2016, Paris, France 2016 / p. 1-11

## **Solutions and active measures for wind power integration**

**Rosin, Argo; Drovtar, Imre; Kilter, Jako** Large scale grid integration of renewable energy sources 2017 / p. 87-129 : ill  
<http://dx.doi.org/10.1049/PBPO098E>

## **Solutions and active measures for wind power integration**

**Rosin, Argo; Drovtar, Imre; Kilter, Jako** Large Scale Grid Integration of Renewable Energy Sources : Solutions and technologies (2nd Ed.) 2024 / p. 91-138 <https://doi.org/10.1049/PBPO222E>

## **State estimation technique for distribution networks**

**Meldorf, Mati; Treufeldt, Ülo; Kilter, Jako** PowerTech Conference proceedings : 27-30 June 2005, St.Petersburg 2005 / Paper 374, [5] p

## **Stochasticity of the electrical network load**

**Meldorf, Heiki; Täht, T.; Kilter, Jako** Oil shale 2007 / 2S, p. 225-236 : ill <https://www.semanticscholar.org/paper/STOCHASTICITY-OF-THE-ELECTRICAL-NETWORK-LOAD-Meldorf-T%C3%A4ht/ba9fcafe43fd6d33cd09033fab4f277bd307785d>

## **Targale wind farm connection studies and Grid Code compliance assessment**

**Sarnet, Tanel; Kilter, Jako** 2022

## **Tehnikaülikooli elektriala tudengid on Eesti parimad**

**Vaimann, Toomas; Kilter, Jako** Elektriala 2021 / lk. 6-8 : ill [https://www.ester.ee/record=b1240496\\*est](https://www.ester.ee/record=b1240496*est)

## **Temperature dependency of electrical network load**

**Meldorf, Mati; Treufeldt, Ülo; Kilter, Jako** Oil shale 2007 / 2S, p. 237-247 : ill  
[https://www.researchgate.net/publication/228631520\\_Temperature\\_dependency\\_of\\_electrical\\_network\\_load](https://www.researchgate.net/publication/228631520_Temperature_dependency_of_electrical_network_load)

## **Testing of PMU-based transmission loss monitoring application**

**Löper, Mari; Tuttelberg, Kaur; Kilter, Jako** 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 121-124 : ill  
[http://www.ester.ee/record=b4650094\\*est](http://www.ester.ee/record=b4650094*est)

## **The development and assessment of HVAC cable models for electrical transmission network planning studies =**

**Kõrgepingeliste kaabelliinide mudelite arendamine ja analüüs elektrivõrgu planeerimisülesannete raamistikus**

**Kangro, Triin** 2018 <https://digi.lib.ttu.ee/ii/?11205> [https://www.ester.ee/record=b5181775\\*est](https://www.ester.ee/record=b5181775*est)

## **A tool for model-order reduction of power systems with high penetration of power electronic devices**

**Campos, Nathalia de Moraes Dias; Kilter, Jako** 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 91-92 : ill  
[https://www.ester.ee/record=b5504019\\*est](https://www.ester.ee/record=b5504019*est)

## **Toward automated utility pole condition monitoring : a deep learning approach**

**Ramlal, Craig J.; Singh, Arvind; Rocke, Sean; Manninen, Henri; Kilter, Jako; Landsberg, Mart** Proceedings of 2020 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 26-28 October, 2020 2020 / p. 255-259 <https://doi.org/10.1109/ISGT-Europe47291.2020.9248797>

## **Toward automatic condition assessment of high-voltage transmission infrastructure using deep learning techniques**

**Manninen, Henri; Ramlal, Craig J.; Singh, Arvind; Rocke, Sean; Kilter, Jako; Landsberg, Mart** International journal of electrical power & energy systems 2021 / art. 106726 <https://doi.org/10.1016/j.ijepes.2020.106726> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Tugevvoolupaigaldised nimivahelduvpingega üle 1 kV. Osa 1, Üldnõuded = Power installations exceeding 1 kV a.c. Part 1, Common rules (IEC 61936-1:2010, modified)**

2011 [https://www.ester.ee/record=b4279531\\*est](https://www.ester.ee/record=b4279531*est)

## **Type models of electrical network load**

**Meldorf, Mati; Kilter, Jako** Oil shale 2009 / 3S, p. 243-253 : ill [https://artiklid.elnet.ee/record=b1489919\\*est](https://artiklid.elnet.ee/record=b1489919*est)

## **Uncertainty propagation in PMU-based transmission line monitoring**

**Tuttelberg, Kaur; Kilter, Jako** IET generation, transmission & distribution 2018 / p. 745-755 : ill <https://doi.org/10.1049/iet-gtd.2017.0244> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Using demand side management in energy-intensive industries for providing balancing power – the Estonian case study**

**Drovtar, Imre; Uemaa, Priit; Rosin, Argo; Kilter, Jako; Valtin, Juhan** 2013 IEEE Power and Energy Society General Meeting (PES), Vancouver, Canada, 21-25 July 2013 : proceedings 2013 / [5] p.: ill <https://ieeexplore.ieee.org/document/6672418>

**Utilizing demand response in load modelling for voltage and reactive power control studies**

**Drovtar, Imre; Leinakse, Madis; Tuttelberg, Kaur; Kilter, Jako** IEEE transactions on power systems 2024 / 12 p  
<https://doi.org/10.1109/TPWRS.2024.3425157>

**Uuenenud nõuded õhuliinidele. Standard EVS-EN 50341-2-20:2018**

**Kilter, Jako; Metusala, Tiit; Raesaar, Peeter** Elektriala 2019 / lk. 22-23 : ill [http://www.ester.ee/record=b1240496\\*est](http://www.ester.ee/record=b1240496*est)

**Validation of full-converter wind power plant generic model based on actual fault ride-through measurements**

**Tšernobrovkin, Oleg; Perdana, Abram; Palu, Ivo; Kilter, Jako** Journal of energy and power engineering 2010 / 4, p. 54-62

**Variability of high voltage circuit breaker performance parameters for condition monitoring**

**Asefi, Sajjad; Kiitam, Ivar; Manninen, Henri; Kilter, Jako; Tealane, Marko; Landsberg, Mart** International Conference on Condition Monitoring, Diagnosis and Maintenance 2023 - CMDM 2023 (7th edition), Bucharest, Romania, October 31th - November 2nd, 2023 : proceedings 2023 / p. 1-10

**Weather dependency of corona losses on 330 kV overhead transmission lines**

**Gupta, Pradeep Kumar; Tuttelberg, Kaur; Kilter, Jako** International journal of electrical power & energy systems 2024 / art. 109537 <https://doi.org/10.1016/j.ijepes.2023.109537> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The weather impact on corona losses of 330 kV aging transmission lines**

**Gupta, Pradeep Kumar; Tuttelberg, Kaur; Kilter, Jako** IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863024>

**Verification of a wind farm aggregated generic dynamic model based on a real fault ride-through test in the grid**

**Tšernobrovkin, Oleg; Perdana, Abram; Palu, Ivo; Kilter, Jako** Proceedings of 5th Nordic Wind Power Conference 2009 2009 / [6] p <https://research.chalmers.se/en/publication/97817>

**Verification of wind parks and their integration into small-interconnected power systems**

**Kilter, Jako; Landsberg, Mart; Palu, Ivo; Tšernobrovkin, Oleg** IEEE PowerTech 2009 Conference : Bucharest, 28.06-02.07.2009 2009 / ? p

**Wide-Area applications for enhancement of Estonian power system security**

**Kilter, Jako; Reinson, Andrus** PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 143-148 : ill <https://ieeexplore.ieee.org/abstract/document/6256218>

**Wind park and transmission network cooperation considering Grid Code requirements**

**Kilter, Jako; Dubbelman, Edgar; Palu, Ivo; Niitsoo, Jaan** Electrical and Control Technologies : proceedings of the the 7th International Conference on Electrical and Control Technologies ECT-2012 2012 / p. 183-188 : ill [https://www.researchgate.net/publication/290252818\\_Wind\\_park\\_and\\_transmission\\_network\\_cooperation\\_considering\\_Grid\\_Code\\_requirements](https://www.researchgate.net/publication/290252818_Wind_park_and_transmission_network_cooperation_considering_Grid_Code_requirements)

**Wind power integration in Estonia under planning contingencies**

**Tšernobrovkin, Oleg; Kilter, Jako; Reinson, Andrus; Ülavere, Eero** 6th International Conference "2008 Power Quality and Supply Reliability" : August 27-29, 2008 : Pärnu, Estonia : conference proceedings 2008 / p. 113-118 : ill

**Üle 1 kV nimivahelduvpingega tugenvoolupaigaldiste maandamine = Earthing of power installations exceeding 1 kV a.c.**

2011 [https://www.ester.ee/record=b2743091\\*est](https://www.ester.ee/record=b2743091*est)

**XgBoost based short-term electrical load forecasting considering trends & periodicity in historical data**

**Shabbir, Noman; Ahmadiyahangar, Roya; Rosin, Argo; Jawad, Muhammad; Kilter, Jako; Martins, Joao** 2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG) 2023 / 6 p <https://doi.org/10.1109/ETFG55873.2023.10407926>