Poster sessions

Session 1A – RES Integration I
Tuesday, 30 June, 9:00 - 10:30

Paper ID	Title / Author(s)
462084	**Inertial Frequency Response Estimation in a Power System With High Wind Energy Penetration** *Lara-Jimenez J.D., Ramirez J.M.*
459721	**A Comparative Analysis of Intelligent Classifiers for Passive Islanding Detection in Microgrids** *Azim R., Sun K., Li F., Zhu Y., Saleem H.A., Shi D., Sharma R.*
465528	**Small and Large Signal Stability Analysis of IMPSA Wind Power Plant Integration on Vietnamese Power System** *Duong M.Q., Le K.H., Tran V.T., Nguyen-Huu H., Grimaccia F., Leva S., Mussetta M.*
462268	**Dynamic Reserves Quantification for Variable Time Resolution Scheduling** *Bakirtzis E.A., Biskas P.N., Bakirtzis A.G.*
461375	**The Large-scale Wind Power Integration Using The Integrated Heating Load and Heating Storage Control** *Yang Y., Wu K., Yan X., Gao J., Long H.*
461127	**Improvement of DC and AC Side Performance of Renewable Source Inverters Under Asymmetrical Fault Conditions** *de Almeida P.M., Barbosa P.G., Duarte J.L., Ribeiro P.F.*
462499	**The Voltage Control for Reactive Power Management by Decentralized Wind Farms** *Cabadag R.I., Schmidt U., Schegner P.*
476656	**Fair Power Curtailment of Distributed Renewable Energy Sources to Mitigate Overvoltages in Low-Voltage Networks** *Viyathukattuva Mohamed Ali M.M., Nguyen P.H., Kling W.L., Chrysochos A.I., Papadopoulos T.A., Papagiannis G.K.*
463417	**Intelligent Day-Ahead Scheduling for Distribution Networks With High Penetration of Distributed Renewable Energy Sources** *Swaminathan B.P., Debusschere V., Caire R.*
461386	**Hour-ahead Energy Resource Management in University Campus Microgrid** *Silva M., Fernandes F., Morais H., Ramos S., Vale Z.*
473079	**Primary Reserve Studies for High Wind Power Penetrated Systems** *Das K., Altin M., Hansen A.D., Sørensen P.E., Abildgaard H.*
458393	**Review of Technical and Economic Challenges for Implementing Rural Microgrids in South Africa** *Patel H.P., Chowdhury S.*

Session 1B - RES Integration II
Tuesday, 30 June, 9:00 - 10:30

Paper ID	Title / Author(s)
459918	**A statistical analysis of the frequency response in an isolated power system with an increasing share of photo-voltaic generation** *Cardozo C., Capely L., Lacoste J., Dessante P.*
462500	**Multifunctional Control of an NPC Converter for the Grid Integration of Renewable Energy Sources** *Pouresmaeil E., Shaker H.R., Jørgensen B.N., Shokridehaki M., Rodrigues E.M.G., Catalão J.P.S.*
462448	**Developing a Hierarchical Scheme for Outage Management in Multi-Microgrids** *Farzin H., Fotuhi-Firuzabad M., Moeini-Aghtaie M.*
464388	**PV Architectures for DC Microgrids using Buck or Boost Exclusive Microconverters** *Marafante E., Mackay L., Hailu T.G., Chandra Mouli G.R., Ramirez-Elizondo L., Bauer P.*
461384	**Study and Analysis of Wind Curtailment Situations and Developing an Appropriated Methodology for its Management** *Boldt D., Faria P., Vale Z.*
463005	**On Determining the Control Techniques Embedded in a Commercial Single-Phase Grid-Tied PV Inverter** *Peng W., Blackstone B., Mohammad Z., Ginobbi P., Baghzouz Y.*
462280	**Optimal Sizing and Management of a Smart Microgrid for Prevailing Self-Consumption** *Ghiani E., Vertuccio C., Pilo F.*
461757	**Smart design is more effective than smart grids** *McKula Gutierrez L.P., Kling W.L., van Blijderveen M., Kamerbeek S., Wustmans M., van der Velde R., Bongaerts M.*
424847	**Spinning Reserve Computation for a Power System with WPG using Point-Estimate Methods** *Achury N., Ríos M.A.*
462456	**Operating power reserve quantify through PV generation uncertainty analysis of a microgrid** *Yan X., Francois B., Abbes D.*
462794	**Stochastic Day-Ahead Scheduling of Thermal and Hybrid Units in Insular Power Systems with High Wind Penetration** *Ntomaris A.V., Bakirtzis A.G.*
461985	**Smart voltage control in distribution networks with a large share of distributed renewable generation** *Papazacharopoulos N., Gibescu M., Vaessen P.*
457168	**Power System Transient Stability Analysis in the Case of High-Penetration**

Session 2A - Advanced diagnostic and monitoring techniques
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Paper ID	Title / Author(s)
443875	**Transmission Line Parameter Error Detection, Identification, and Correction With Geometrical View: Topological Errors** *Bretas N.G., Martins A.C.P.*
461217	**A Fuzzy Approach for Disturbances Diagnosis and Fault Classification in Power Plants** *Cieslak D.A.G., Moreto M.*
460697	**Intelligent System for Fault Detection in Wind Turbines Gearbox** *Brandão R.F.M., Carvalho J.A.B., Barbosa F.P.M.*
458390	**Warm-commissioning Tool of the Data Chain of Digital Measurement Systems** *Aprilia E., Le T., Campfens F.*
462164	**On-Line Performance Monitoring of a Transmission Line using Synchrophasor Measurements** *de Jager F.A., Rens A.P.J.*
462925	**Impact of thermal and electrical aging on Breakdown Strength of Oil-impregnated Paper** *Ghaffarian Niasar M., Taylor N., Edin H., Clemence kiiza R.*
497529	**Expert system to support maintenance scheduling of high voltage circuit breakers** *dos Santos D.T., Gisèle Rolim J.*
447043	**A New Method of Fault Loop Resistance Measurement in Low Voltage Systems with Residual Current Devices** *Czapp S., Borowski K., Dobrzynski K., Klucznik J., Lubosny Z.*
473884	**Underground Power Cable Diagnostics: Online Defect Positioning** *Dong Z., Li Y., Wouters P.A.A.F., Wagenaars P., Steennis E.F.*
461840	**A Simplified Approach to Detect Undervoltage Tripping of Wind Generators** *Sigrist L., Rouco L.*
460843	**Distribution transformer mid-term heavy load and overload pre-warning based on logistic regression** *Li M., Zhou Q., Yang Z.*
462130	**Comparison of IEEE and CIGRE methods for predicting Thermal Behaviour of Powerlines and their relevance to Distribution Networks** *Bangay J., Coleman M., Batten R.*
462468	**Fault Prevention by Recognition and Localization of Self-Extinguishing Faults** *Gu T., Provoost F., Bos W.*
461863	**A Comparative Case Study of Online Voltage Instability Monitoring** *Duong D.T., Uhlen K., Taranto G.N., Løvlund S.*

Session 2B - Network protection and distribution automation
Tuesday, 30 June, 11:00 - 12:30

Paper ID	Title / Author(s)
461830	**On the Problem of Shunt Reactor Tripping during Single- and Three-Phase Auto-Reclosing** *Panasetsky D.A., Osak A.B.*
462142	**Two-Terminal Out-of-Step Protection for Multi-Machine Grids Using Synchronised Measurements** *Sauhats A., Svalova I., Svalovs A., Antonovs D., Utans A., Bochkarjova G.*
461848	**Impact of arc impedance on earth fault currents in medium voltage cable networks** *Bernards R, Morren J., Slootweg J.G.*
467638	**Voltage Profile Analysis for Fault Distance Estimation in Distribution Network** *Teninge A., Pajot C., Raison B., Picault D.*
465892	**Fault Distance Estimation in Distribution Network for high impedance faults** *Dasco A., Marguet R., Raison B.*
461842	**Protection Strategies for LVDC Distribution System** *Satpathi K., Ukil A.*
455833	**Differentiation of Fault and Load Change in HVDC System using Amplitude Tracking Square Wave** *Yeap Y.M., Ukil A.*
459058	**A Fault Location Method for Double-circuit HVDC Transmission Lines on the Same Tower Based on Mixed Modulus** *Qiu Y., Li H., Guo L., Wu J., Liang Y.*
459365	**Influence of Ion Current on Current Transformers of AC Systems in near vicinity of DC Systems** *Romeis C., Jaeger J., Steckler K., Keil T.*
473691	**Reduced DC Circuit Breaker Requirement on Mixed Converter HVDC Networks** *Chaffey G., Green T.C.*
462580	**Distribution Automation System for Service Restoration Involving Simultaneous Disconnection and Reconnection of Distributed Generators** *Kawano S., Fujimoto Y., Wakao S., Hayashi Y., Takenaka H., Irie H., Nakajima T.Y.*
463232	**Test Bed: 4G LTE Pertinence for Power Distribution Networks** *Sanchez J., Braconnier T., Caire R., Sibileau N., Chotard L.*
464715	**Voltage-controlled Overcurrent Relay for a Wind Farm Having Looped Collection Circuits** *Kim T., Kang S., Seo W., Kim M.*
447210	**Optimal Number, Type and Location of Remotely Controlled and Supervised Devices**

in Distribution Networks
Popovic Z., Knezevic S., Brbaklic B.

462533   **Precise Impedance Based Fault Location Algorithm with Fault Resistance Separation**
Washer M., Maun J., Dzienis C., Kereit M., Yelgin Y., Blumschein J.

461132   **Elimination of transmission system overloads through branch switching**
Pinheiro D.C., Castro C.A.

462049   **Systematic Method for the Development of Future Active Distribution Network Automation Architectures**
Riccobono A., Angioni A., Ponci A., Monti A., Giustina D.D., Dedé A., Repo S.

Session 3A - Electric vehicle prospects and network interaction
Tuesday, 30 June, 13:30 - 15:00

Paper ID	Title / Author(s)
463479	**Reactive Power Support of Electrical Vehicle Charging Station Upgraded with Flywheel Energy Storage System** *Sun B., Dragicevic T., Savaghebi M., Vasquez J.C., Guerrero J.M.*
462415	**Improving and Handling Electric Vehicle Penetration Level by Different Smart Charging Algorithms in Distribution Grids** *Kordkheili R.A., Bak-Jensen B., Pillai J.R., Bhattarai B.P.*
424843	**Demand Forecasting Associated with Electric Vehicle Penetration on Distribution Systems** *Botero A.F., Rios M.A.*
424416	**Grid Impact of Charging Electric Vehicles; Study Cases in Denmark, Germany and The Netherlands** *van der Burgt J., Vera S.P., Wille-Haussmann B., Andersen A.N., Tambjerg L.H.*
460015	**Investigation of the impact of electric vehicles on the German market for control reserve** *Wolfram M., Schlegel S., Westermann D.*
460742	**Impact of Peak Electricity Demand in Distribution Grids: A Stress Test** *Hoogsteen G., Molderink A., Hurink J.L., Smit G.J.M., Schuring F., Kootstra B.*
462804	**Integration of traffic and grid simulator for the analysis of e-mobility impact on power distribution networks** *Bedogni L., Bononi L., Borghetti A., Bottura R., D'Elia A., Salmon Cinotti T.*
462073	**Quantum-based PSO applied to Hour-Ahead Scheduling in the Context of Smart Grid Management** *Soares J., Silva M., Vale Z., de Moura Oliveira P.B.*
462657	**Hierarchical Approach for Optimal Operation of Distribution Grid and Electric Vehicles** *Paudyal S., Bharati G.R.*
425227	**System Frequency Control by LFC Signal Equipartition Method Based on Slow Smart Charging of Electric Vehicle** *Adachi T., Yokoyama A.*
462608	**Optimal Allocation of PHEV Parking Lots to Minimize Distribution System Losses** *Mazidi M., Fotuhi-Firuzabad M., Abbaspour A., Rastegar M.*
462695	**Modeling the PEV Traffic Pattern in an Urban Environment with Parking Lots and Charging Stations** *Neyestani N., Damavandi M.Y., Shafie-khah M., Catalão J.P.S.*
462827	**Impacts of Different Renewable Energy Resources on Optimal Behavior of Plug-in Electric Vehicle Parking Lots in Energy and Ancillary Services Markets**

Gil F.A.S, Shafie-khah M., Bizuayehu A.W., Catalão J.P.S.

470119   **The Car as Power Plant: Towards socio-technical systems integration**
Park Lee E., Chappin E, Luksza Z., Herder P.

462846   **Multi-objective Distribution Planning Approach for Optimal Network Investment with EV Charging Control**
Dias A., Carvalho P.M.S., Almeida P., Rapoport S.

361[1]   **Fuzzy Approach for Online Coordination of Plug-In Electric Vehicle Charging in Smart Grid**
Masoum A., Deilami S., Abu-Siada A., Masoum M.

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Session 3B - Applications of storage technologies
Smart energy systems in the built environment
Tuesday, 30 June, 13:30 - 15:00

Paper ID	Title / Author(s)
493908	**Assessing Distributed Storage Management in LV Grids with the Smart Grid Metrics Framework** *Rui H., Wellssow W.H.*
462120	**Option Value of Soft Open Points in Distribution Networks** *Giannelos S., Konstantelos I., Strbac G.*
462856	**Day-ahead Primary Power Reserve Planning and Day-D Primary Frequency Control of a Li-Ion Battery** *Amamra S., Francois B., Lugaro J.*
462930	**Impacts of future residential electricity demand and storage systems on 'classic' LV-network design** *Coumans D.J.S., Grond M.O.W., Coster E.J.*
462273	**Agent Based Coordination of Distributed Energy Storage Devices in Future Distribution Grids** *Unger D., Myrzik J.M.A.*
461706	**Battery Energy Storage Efficiency Calculation Including Auxiliary Losses: Technology Comparison and Operating Strategies** *Gatta F.M., Geri A., Lauria S., Maccioni M., Palone F.*
443552	**Optimal Operation of Combined Cooling Heat and Power Microgrid With PEVs** *Wu T., Mai W., Qin M., Zhang C., Li J., Nie Y., Liu J., Chung C.Y.*
424442	**Demonstration of the Smart Energy Neighbourhood Management System in the VIMSEN Project** *van der Burgt J., Sauba G., Varvarigos E., Makris P.*
460789	**Energy Hub Modelling and Optimisation: An Analytical Case-Study** *Beccuti G., Demiray T., Batic M., Tomasevic N., Vranes S.*
477561	**Benchmarking algorithms for resource allocation in smart buildings** *Markidis S., Mocanu E., Gibescu M., Nguyen P.H., Kling W.L.*
462135	**Model Analysis of a Residential Building for Demand Response** *Zhao Z., Verbic G., Fiorito F.*
462928	**PV Penetration Scenario Generator based on Maximum Hosting Capacity and Statistic Data** *Stifter M., Zehetbauer P., Bletterie B.*
460736	**Quantifying the Flexibility of Residential Electricity Demand in 2050: a Bottom-Up Approach**

van Stiphout A., Engels J., Guldentops D., Deconinck G.

460832   **A Framework for Grid-Edge Resilience Improvement Using Homes and Microgrids Coordination**
Roche R., Celik B., Bouquain D., Miraoui A.

461341   **Optimal Power Flow with Energy Storage Systems: Single-period Model vs. Multi-period Model**
Nguyen N.T.A., Le D.D., Bovo C., Berizzi A.

469002   **Hourly Electricity Load Modelling of non-residential Passive Buildings in a Nordic Climate**
Lindberg K.B., Doorman G., Chacon J.E., Fischer D.

474026   **Control of a Battery Energy Storage System Accounting for the Charge Redistribution Effect to Dispatch the Operation of a Medium Voltage Feeder**
Sossan F., Torregrossa D., Namor E., Cherkaoui R., Paolone M.

Session 4A - Power system dynamics and stability
Tuesday, 30 June, 15:30 - 17:00

Paper ID	Title / Author(s)
501917	**DREAM: an ICT architecture framework for heterarchical coordination in power systems** *Kamphuis I.G., Wijbenga J.P., van der Veen J.S., Macdougall P., Faeth M.*
456270	**Impact of Penetration of Non-Synchronous Generators on Power System Dynamics** *Papadopoulos P.N., Milanovic J.V.*
459255	**A Novel Approach for Analytical Modeling of Line Commutated Converter based HVDC Systems for Electromagnetic Transient Analysis** *Probst L., Hahn C., Luther M.*
462812	**Direct Methods for Stability Assessment of Two-Time-Scale Electrical Power System Models** *Pillco E.C., Alberto L.F.C.*
441352	**Effect of DG modeling and controllers on the transient stability of micro-grids in EMT simulation** *Amiri M., Vega T.Y., Gole A.M.*
461913	**Development of Phasor Type Model of PMSG based Wind Farm for Dynamic Simulation Analysis** *Rosyadi M., Umemura A., Takahashi R., Tamura J., Konda S., Ide K.*
461342	**Transient Stability of Doubly-Fed Induction Machine in parallel to Synchronous Machine** *Azbe V., Mihalic R.*
460271	**Examination of different voltage asymmetry norms under transient behavior of three-phase low voltage power systems containing small domestic power plants** *Neukirchner L., Görbe P., Magyar A.*
455946	**Power System Instability Prevention and Remedial Measures with Online Dynamic Security Assessment** *Chychykina I., Styczynski Z.A., Heyde C.O., Krebs R.*
449325	**Network-Free Voltage Stability Assessment of Power Systems using Phasor Measurements** *Giraldo J.S., Castrillón J.A., Castro C.A.*
462829	**Enhancing Power System Voltage Stability Through a Centralized Control of Renewable Energy Sources** *Hadjidemetriou L., Asprou M., Demetriou P., Kyriakides E.*
475865	**A parametric investigation on the effects of inertia on the stability of power systems** *Roberts L.G.W., Kafanas G., Champneys A., di Bernardo M., Bell K.*
474082	**Wind farms generation limits and its impact in real-time voltage stability assessment**

Perez A., Johannsson H., Østergaard J.

462819   **A Multi-Step Optimization Approach for Power Flow with Transient Stability Constraints**
Alamo A.C.M., Alberto L.F.C.

456724   **Estimation, Control and Prediction of Voltage Level and Stability at Receiving Node**
Brusilowicz B., Szafran J.

433334   **A New Technique for Improving the Performance of Active Power Filter in Power Systems with Isolated Neutral Point**
Fereidouni A., Masoum M.A.S.

Session 4B - Power systems modeling, simulation, and analysis I
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Paper ID	Title / Author(s)
458105	**Probabilistic Estimation of Rated Demand at Bulk Supply Point** *Xu Y., Milanovic J.V.*
460796	**On Reverse Operating Conditions Identification** *Marujo D., Zambroni de Souza A.C., Prada R.B.*
476211	**Model Development and Validation of Brushless Exciters** *Bertes T.*
455867	**3-Phase 4-Wire Hybrid Calculation - Analysis Method for Clustering Power Systems Philosophy** *Wirasanti P., Ortjohann E.*
425242	**Platform Based on Hybrid Real-Time Power System Simulator for Development and Research of Intelligent Power Systems with Active-Adaptive Networks** *Andreev M., Sulaymanov A.*
457450	**Identification of Small Signal Oscillation Mode Parameters from Simulated and Actual PMU Ringdown Data** *Iswadi H.R., Best R.J., Morrow D.J.*
461734	**A Test Distribution Grid for Study of Slow Coherency Concept** *Preda T.N., Uhlen K.*
498348	**A Toolbox for Efficient Parameter and Structure Variation of Time Domain Power System Simulation Models in Simulink** *Wippenbeck T., Bertram R., Schnettler A.*
462652	**Stochastic Unit Commitment via Progressive Hedging - Extensive Analysis of Solutions Methods** *Ordoudis C., Zugno M., Pinson P., Morales J.M.*
459704	**Approach to Choice of Controls for Probabilistic Constrained Load Flow in the Electric Power System** *Golub I.I., Boloev E.V., Voitov O.N.*
462480	**Component Importance Driven Test Scheduling for Circuit Breakers and Protective Relays** *Lamponen J., Haarla L., Hirvonen R.*
461986	**Sumatra-Java HVDC Transmission System Modelling And System Impact Analysis** *Faizal R., Pack S., Plesch J., Nurdin M., Hariyanto N.*
462459	**Dynamic Study Model for the Interconnected Power System of Continental Europe in Different Simulation Tools** *Semerow A., Höhn S., Luther M., Sattinger W., Abildgaard H., Garcia A.D., Giannuzzi G.*

Session 5A - State estimation and situational awareness
Wednesday, 1 July, 9:00 - 10:30

Paper ID	Title / Author(s)
462781	**Bad Data Detection and Handling in Distribution Grid State Estimation Using Artificial Neural Networks** *Cramer M., Goergens P., Schnettler A.*
462207	**Load Pseudomeasurements in Distribution System State Estimation** *Pieri G., Asprou M., Kyriakides E.*
461603	**Improving Operation of Medium Voltage Grid with State Estimator and Advanced Metering System** *Xiang Y., Cobben J.F.G.*
473386	**Impact of Synchrophasor Measurement Types and Uncertainties on the Accuracy of Distribution System Linear State Estimators** *Zanni L., Colangelo D., Cherkaoui R., Paolone M.*
461142	**Observability, Redundancy and Gross Error Processing in State Estimation Using SCADA and Synchronized Phasor Measurements** *Fantin C.A., Massignan J.A.D., Castillo M.R., London Jr J.B.A.*
462867	**An ELM-AE State Estimator for Real-Time Monitoring in Poorly Characterized Distribution Networks** *Pereira Barbeiro P.N., Teixeira H., Pereira J., Bessa R.*
475820	**A structured approach to increase situational awareness in low voltage distribution grids** *Helmholt, K.A., Groote Schaarsberg M., Broersma T., Morren J., Kruizinga B., Wouters P.A.A.F., Steennis E.F., Baldinger F.*
462083	**Three Phase Distribution State Estimation Utilizing Common Information Model** *Magnago F, Zhang L., Nagarkar R.*
462764	**Nodal Load Approximation in Sparsely Measured 4-Wire Electrical Low-Voltage Grids by Stochastic Optimization** *Huppertz P., Schallenburger M., Zeise R., Kizilcay M.*
444236	**Robust Self Healing Two-level State Estimation in Systems with Optimally Allocated PMUs** *Müller H.H., Castro C.A.*
427533	**Phasor estimation under transient conditions** *Paternina M.R.A., Zamora A., Vázquez M.E., Ramirez J.M.*
48[2]	**Enhanced Bad Data Processing by Phasor-Aided State Estimation** *Do Coutto Filho M.B., Stacchini de Souza J.C., Guimaraens R.*

Session 5B - Power quality issues and mitigation techniques
Development in power system planning I
Wednesday, 1 July, 9:00 - 10:30

Paper ID	Title / Author(s)
447677	**Model-Based Volt-Var Optimization Using Advanced Metering Infrastructure in Distribution Networks** *Zhang C., Dai B., Wu T., Mai W., Qin M., Li J., Nie Y., Liu J., Chung C.Y.*
466557	**Power system optimal wide area control based on identified models** *Nieto J.D., Mauricio J.M.*
462698	**Harmonic Study in LV networks with high penetration of PV systems** *Kouveliotis-Lysikatos I., Kotsampopoulos P., Hatziargyriou N.*
493918	**Evaluation and Updating of Harmonic Voltage Limits** *Cobben J.F.G., Geldtmeijer D.A.M., Almering A.F.J., van Waes J.B.M.*
460528	**Seasonal Variations in Long-Term Measurements of Power Quality Parameters** *Domagk M., Meyer J., Schegner P.*
462297	**Voltage-Current and Harmonic Characteristic Analysis of Different FC-TCR Based SVC** *Shawon M.H., Hanzelka Z., Dziadecki A.*
463255	**Multiobjective MILP Model for Optimal Allocation of Automated Switching Devices in Electric Power Distribution Systems** *Ferreira G.D., Gazzana D.S., Bretas A.S., Bettiol A.L., Carniato A., Passos L.F.N., Homma R.Z., Molina F.H.*
463212	**A Fuzzy-Based Approach for Harmonic Contribution Determination at Points of Common Coupling** *Silva C.B.S., Silva I.N., Aravechia J.V.P., Fernandes R.A.S.*
464499	**Mitigation of Transformer Inrush Current Associated with DER Facilities connected on the Distribution grid** *Lacroix M., Taillefer P., Mercier A.*
462550	**The Study of Supercapacitor' Transient Power Quality Improvement on Microgrid** *Zheng D., Wei D., Zhang W., Meng Z.J.*
462542	**Power quality measurements and analysis for a Romanian WPP** *Sava G.N., Costinas S., Porumb R., Golovanov N.*
460805	**Power Converters in Distribution Grids - New Alternatives for Grid Planning and Operation** *Schnelle T., Schmidt M., Schegner P.*
476156	**Stability Assessment of VSC-HVDC Connected Large-Scale Offshore Wind Power: a North-Sea Region Case Study** *van der Meer A.A., Ndreko M., Bos J.A., Gibescu M., van der Meijden M.A.M.M., Kling*

W.L.

458301   **Transmission Line Reinforcements Considering Security Constraints**
de Oliveira E.J., Crisafulli V.M., Poubel R.P., Honorio L.M., Marcato A.L.M.

476556   **Preemptive Network Reinforcement at LV Level Considering Uncertainty in Prediction of PV Penetration Scenarios**
Idlbi B., Scheidler A., Stetz T., Braun M.

460450   **Stochastic Optimization of Power Line Design**
Sauhats A., Beryozkina S., Petrichenko L., Neimane V.

462147   **Transmission Expansion Planning Based on Hybrid EDA/DE Algorithm Considering Wind Power Penetration**
Liu W., Li H., Xu H., Zhang J., Zheng D.

462429   **Using Stochastic Dual Dynamic Programming and a Periodic Autoregressive Model for Wind-Hydrothermal Long-Term Planning**
Pereira I.F., Hoffmann L., de Oliveira L.W., Silva Junior I.C., de Oliveira E.J., Ramos T.P., Marcato A.L.M.

462828   **Technical and economic impact on the DG insertion rate of storage system facilities in LV network planning**
Hadj-said A., Alvarez-Herault M., Debusschere V., Caire R.

464270   **Assessing the Impacts of Distribution Grid Planning Rules on the Integration of Renewable Energy Sources**
Dutrieux H., Delille G., Francois B.

462849   **A Modular AC Optimal Power Flow Implementation for Distribution Grid Planning**
Hauswirth A., Summers T., Warrington J., Lygeros J., Kettner A., Brenzikofer A.

465037   **Involving residual load intraday forecast for network reconfiguration**
Shapovalov A., Spieker C., Rehtanz C., Engelmeyer T.

460880   **Power System Planning Benefits of Hybrid Heating Technologies**
Heinen S., O'Malley M.

Session 6A - Electricity markets design and regulatory issues
Wednesday, 1 July, 11:00 - 12:30

Paper ID	Title / Author(s)
439634	**Reformulation for Nash-Cournot Equilibrium in Pool-based Electricity Market Supported by Introducing the Potential Function** *Zou P., Chen Q., Zhong H., Xia Q., Kang C., Ge R.*
460723	**Balancing Energy Market Integration Considering Grid Constraints** *Gebrekiros Y., Doorman G., Jaehnert S., Farahmand H.*
456700	**A new electricity market design for power systems with large share of hydro: Improving flexibility and ensuring efficiency and security in the Brazilian case** *Calabria F.A., Tome Saraiva J., Rocha A.P.*
462307	**Clustering Approach for Determination of Congestion Zones on Nodal Electricity Markets in Long Term Periods** *Volodin D.V., Vaskovskaya T.A.*
459760	**Embracing Renewables – Overcoming Integration Challenges from Malaysia's Utility Perspective** *Zainol-Abidin N.Z., Ibrahim J.B.*
462525	**Security-Constrained Nodal-Based Clearing of the European Day-Ahead Electricity Market Formulated as a MILP Model** *Chatzigiannis D.I., Biskas P.N., Bakirtzis A.G.*
462788	**A Top-Down Market Model for Demand Response Procurement via Aggregators** *Wei M.*
467455	**A Balancing Market under Uncertainty with a Rolling Horizon for European Market Structure** *Abbaspourtorbati F., Cherkaoui R., Zima M.*
462574	**Bi-Level Approach for Modeling Multi-Energy Players' Behavior in a Multi-Energy System** *Damavandi M.Y., Bahramara S., Moghaddam M.P., Haghifam M.-R., Shafie-khah M., Catalão J.P.S.*
491063	**Implementation and evaluation of an electricity market operated at district level** *Ampatzis M., Nguyen P.H., Kling W.L.*
461352	**Optimal Generic Energy Storage System Offering in Day-Ahead Electricity Markets** *de la Nieta A.A.S., Tavares T.A.M., Martins R.F.M., Matias J.C.O., Catalão J.P.S., Contreras J.*
475007	**Market clearing model for microgrids with probabilistic reserve** *Luna L.E., Torres H., Pavas A.*
514553	**Supply and Demand Balance Control of Power System with Renewable Energy**

Integration by Introducing Congestion Management
Bae H., Tsuji T., Oyama T., Uchida K.

428176   **Improving offering strategies for wind farms enhanced with storage capability**
Ding H., Hu Z., Song Y., Pinson P.

Session 6B - Power system interoperability, standards and codes
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Paper ID	Title / Author(s)
461947	**Facilitating Distribution Grid Network Simulation Through Automated Common Information Model Data Conversion** *Armendariz M., Saleem A., Nordström L., Brugeron M.*
458639	**Comparison of current and future voltage regulation measures on German low voltage grids** *Arnold M., Friede W., Myrzik J.*
501921	**Frequency Response using MTDC Grids: A Comparative Study of Common Methods** *Bucurenciu A., Ndreko M., Popov M., Meijden M.A.M.*
456980	**Security Constraints for Wind Power Operation** *de Oliveira E.J., Mayrink S.M., Rodrigues M.L., Dias B.H., de Oliveira L.W., Silva Junior I.C.*
464259	**Automatic Voltage and Reactive Power Regulator for Wind Farms participating to TSO Voltage Regulation** *Chiandone M., Campaner R., Arcidiacono V., Sulligoi G., Milano F.*
440921	**Ensuring a reliable operation of modern power systems** *Bricman Rejc Z., Cepin M.*
460542	**On Grid Code Compliance of Offshore MTDC grids: Modeling Needs and Analysis** *Ndreko M., Bucurenciou A., Popov M., van der Meijden M.A.M.M.*
460806	**Network Redundancy versus Generation Reserve in Combined Onshore-Offshore Transmission Networks** *Tuinema B.W., Rueda J.L., van der Meijden M.A.M.M.*
462964	**Identification of observables for future grids - the framework developed in the ELECTRA project** *Visscher K., Marinelli M., Morch A.Z., Hofsmo Jakobsson S.*
462100	**Estimation of the Flexibility Range in the Transmission-Distribution Boundary** *Heleno M., Soares R., Sumaili J., Bessa R.J., Seca L., Matos M.A.*
462837	**Preliminary Study on Voltage level Standardization of DC Grid based on VSC-HVDC Technology in China** *Yao M., Cai X.*
483250	**Experimental Sensitivity Analysis of Low Voltage Control Strategies on Communication Properties** *Faschang M., Schwalbe R., Kupzog F.*
476597	**Integration of an IEEE Std. C37.118 Compliant PMU into a Real-Time Simulator** *Romano P., Pignati M., Paolone M.*

Session 7A - Power systems modeling, simulation, and analysis II
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Paper ID	Title / Author(s)
462002	**Equation-Based Modeling of Three-Winding and Regulating Transformers using Modelica** *Murad M.A.A., Gómez F.J., Vanfretti L.*
461996	**Equation-Based Modeling of FACTS using Modelica** *Murad M.A.A., Gómez F.J., Vanfretti L.*
462042	**Analytical Approach to Large-Scale System Splitting for the Regulation of Fault Levels** *Vovos P., Song H.*
461774	**Assessment of Model Parameters to Identify an Equivalent Wind Power Plant** *Cari E.P.T., Alberto L.F.C., Erlich I.*
462529	**Mutual Information based Bayesian Analysis of Power System Reliability** *Khuntia S.R., Rueda J.L., van der Meijden M.A.M.M.*
476823	**Optimization of microgrids short term operation based on an enhanced genetic algorithm** *Nemati M., Bennimar K., Tenbohlen S., Tao L., Mueller H., Braun M.*
460706	**Resonances due to Long HVAC Offshore Cable Connections: Studies to verify the Immunity of Dutch Transmission network** *Jansen K., van Hulst B., Engelbrecht C., Hesen P., Velitsikakis K., Lakenbrink C.*
462715	**Integrated Scheduling Model for Central Dispatch Systems in Europe** *Marneris I.G., Biskas P.N.*
462773	**Assessment of load shifting potential on large insular power systems** *Vagropoulos S.I., Katsolas I.M.D., Bakirtzis A.G.*
478274	**Temperature-based Instanton Analysis: Identifying Vulnerability in Transmission Networks** *Kersulis J., Hiskens I., Chertkov M., Backhaus S., Bienstock D.*
462630	**Approaching the Diversity of Unbalanced Residential Load in Low-Voltage Grids by Probabilistic Load-Flow Simulation of Cross-Sectional Data** *Huppertz P., Kopczynski L., Zeise R., Kizilcay M.*
462020	**Effects of Nuclear Power Phase-out in Germany on the Austrian Power System** *Holzer A., Tuan L.A.*
462097	**Smart Grid and Electricity Market joint Simulation using complementary Multi-Agent platforms** *Pinto T., Silva M., Santos G., Gomes L., Canizes B., Vale Z.*
477007	**Aggregated Wind Power Plant Models Consisting of IEC Wind Turbine Models**

Altin M., Göksu O., Hansen A.D., Sørensen P.E.

490487   **Evaluation of scenario reduction methods for stochastic inflow in hydro scheduling models**
Larsen C.T., Doorman G.L., Mo B.

462941   **Optimal Power Flows with Voltage Stability Constraint Based on Voltage Stability Indices and Artificial Neural Networks**
Lage G.G., Fernandes R.A.S., da Costa G.R.M.

57[3]   **On Control Actions Effects by Using QV Curves**
Marujo D., Zambroni de Souza A.C., Lima Lopes B.I., Santos M.V., Lo K.L.

1017[4]   **A Hybrid MILP and Benders Decomposition Approach to Find the Nucleolus Quota Allocation for a Renewable Energy Portfolio**
Freire L., Street A., Lima D.A., Barroso L.A.

Session 7B - Power systems modeling, simulation, and analysis III
Wednesday, 1 July, 13:30 - 15:00

Paper ID	Title / Author(s)
464372	**Laboratory Test Set-up for the Assessment of PMU Time Synchronization Requirements** *Singh R.S., Hooshyar H., Vanfretti L.*
474089	**Improved method for considering PMU's uncertainty and its effect on real-time stability assessment methods based on Thevenin equivalent** *Perez A., Johannsson H., Østergaard J., Martin K.*
476131	**Simplified Dynamic Modelling of Variable Speed Wind Turbine Generators Based on Capability Diagrams** *Raoofsheibani D., Schneider M., Loitz S., Wellssow W.H., Spanel U., Roggatz C.*
462099	**Impact of Value of Lost Load on Performance of Reliability Criteria and Reliability Management** *Heylen E., Deconinck G., Van Hertem D.*
460027	**Factor influence and correlation of short term demand for control reserve** *Wolfram M., Bokhari H., Westermann D.*
463988	**Assessment methods for the targeted reconfiguration in distribution networks** *Touré S., Vanet E., Caire R., Bésanger Y.*
462001	**Automating, monitoring, and control of an ICE based micro-CCHP system using LabVIEW and Android** *Rey G., Arce M.E., Ulloa C., Cacabelos A., Míguez J.L.*
462745	**Identification of critical States regarding Voltage Stability by using a Continuation Power Flow combined Contingency Analysis** *Mittelstaedt M., Barrios H., Schnettler A.*
462558	**Analysis of the Maximum Available Time to Switch the Operation Control Mode of a Distributed Generation During an Islanding Occurrence** *Neves R.V.A., Agnoletto E.J., Reis G.B., Machado R.Q., Oliveira V.A.*
456591	**Framework for sensitivity Analysis of Stability of Torsional Modes** *Adrees A., Milanovic J.V.*
462586	**Dynamic line rating forecasting based on numerical weather prediction** *Fernandez E., Albizu I., Buigues G., Valverde V., Etxegarai A., Olazarri J.G.*
460693	**Distribution System Short-term Operation Loss Analysis with Stochastic Wind Integration** *Bizuayehu A.W., Sanchez de la Nieta A.A., Catalao J.P.S., de Quevedo P.M., Contreras J.*
445179	**Identification and Monitoring Inter-area Oscillations in Power Systems** *Calderón-Guizar J.G., Ramirez-González M., Castellanos-Bustamante R.*

Session 8A - Smart metering, demand side management and demand response
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Paper ID	Title / Author(s)
443543	**Change Detection of Electric Customer Behavior Based on AMR Measurements** *Chen T., Mutanen A., Jarventausta P., Koivisto H.*
461759	**Economics of Distributed Flexibilities for the Grid Considering Local Short-Term Uncertainties** *Marinho N., Phulpin Y.*
462241	**A Contribution to the Load Forecast of Price Elastic Consumption Behaviour** *Klaiber S., Bretschneider P., Waczowicz S., Mikut R., Konotop I., Westermann D.*
462650	**Analysis of load shedding strategies for battery management in pv-based rural off-grids** *Sridhar J., Chandra Mouli G.R., Raaijen E., Bauer P.*
462954	**Evaluating cooling zonal set point temperature operation strategies for peak load reduction potential: case based analysis of an office building** *Aduda K.O., Vink W., Boxem G., Zhao Y., Zeiler W.*
462469	**Scheduling Demand Response and Smart Battery Flexibility in a Market Environment: Results from the Reflexe Demonstrator Project** *Siebert N., Ammari S., Cao X., Delaplagne T., Mamadou K., Chouiter M., Buttin H., Gaci O., Lagorse J., Bertone Y.*
461383	**Scheduling and Aggregation of Distributed Generators and Consumers Participating in Demand Response Programs** *Spinola J., Faria P., Vale Z.*
459453	**Quantifying the Demand-Side Response Capability of Industrial Plants to Participate in Power System Frequency Control Schemes** *Mohd Noor I., Thornhill N.F., Fretheim H., Thorud E.*
470791	**Demand Flexibility Time Intervals for Aggregate Residential Load Patterns** *Sajjad I.A., Chicco G., Napoli R.*
476085	**Open Source Hardware and Software to Support Energy Efficiency and Demand Response in LV Installations** *Andreou G.T., Chatzigeorgiou I.M.*
460412	**Effective dynamic tariffs for price-based Demand Side Management with grid-connected PV systems** *Philippou N., Hadjipanayi M., Makrides G., Efthymiou V., Georghiou G.E.*
428022	**Optimized Energy Management of a Single-House Residential Micro-Grid With Automated Demand Response** *Anvari-Moghaddam A., Monsef H., Rahimi-Kian A., Guerrero J.M., Vasquez J.C.*

Session 8B - New energy conversion and (hybrid AC/DC) distribution technologies
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Paper ID	Title / Author(s)
462604	**Security Constrained Optimal Power Flow for Mixed AC and Multi-Terminal HVDC Grids** *Saplamidis V., Wiget R., Andersson G.*
457846	**Dynamic Thermal Rating of a Modular Multilevel Converter HVDC Link with Overload Capacity** *Judge P.D., Green T.C.*
476682	**Coordinated Frequency and Voltage Overload Control of Smart Transformers** *De Carne G., Buticchi G., Liserre M., Marinakis P., Vournas C.*
468917	**Flux pump for HTS rotating machinery applications** *Kulkarni R., Prasad K., Lie T.T.*
462414	**Control of DC bus voltage with a Modular Multilevel Converter** *Samimi S., Gruson F., Guillaud X., Delarue P.*
462375	**A Comparison of Backstepping and LQG control for stabilizing MVDC Microgrids with Constant Power Loads** *Cupelli M., Mirz M., Monti A.*
477976	**Investigation of the impact of embedded VSC-HVDC active and reactive power control on power system stability** *Chodura P., de Graaff R.A.A., Gibescu M., Kling W.L.*
462088	**Phase Compensation Scheme to Improve the Accuracy of a Power Hardware-in-the-Loop Experiment Based on a Synchronous Generator** *Castro Lopez A., Zuñiga P., Uribe F.A., Barocio E.*
462043	**A Mixed-Integer Linear Model for Optimal Operation of Hybrid AC-DC Microgrid Considering Renewable Energy Resources and PHEVs** *Teimourzadeh Baboli P., Bahramara S., Parsa Moghaddam M., Haghifam M.R.*
462948	**Feasibility of geographically distributed real-time simulation of HVDC system interconnected with AC networks** *Stevic M., Vogel S., Monti A., D'Arco S.*
498370	**Mixed AC/DC OPF using Differential Evolution for Global Minima Identification** *Marten A.K., Sass F., Westermann D.*
460533	**Impact of Offshore Wind and Conventional Generation Outages on the Dynamic Performance of AC-DC Transmission Systems** *Ndreko M., Popov M., Rueda-Torres J.L., van der Meijden M.A.M.M.*

Session 9A - Power system control
Thursday, 2 July, 9:00 - 10:30

Paper ID	Title / Author(s)
450562	**Activation Schemes of Synthetic Inertia Controller for Full Converter Wind Turbine Generators** *Gonzalez-Longatt F.*
458322	**Effect of Reactive Power Control by Photovoltaic Power Generation on Short-Term Voltage Stability** *Kawabe K., Tanaka K.*
449294	**Dynamic Control Interaction Assessment in Power Systems with Wind Energy Conversion Systems** *Sotelo-Martínez J.A., Fuerte-Esquivel C.R.*
461391	**Nonlinear Control for PMSG Wind Turbine via Port-Controlled Hamiltonian System** *Gui Y., Kim C., Chung C.C.*
470173	**A Coordinated Control Method to Smooth Short-Term Power Fluctuations of Hybrid Offshore Renewable Energy Conversion System (HORECS)** *Qin C., Ju P., Wu F., Jin Y., Chen Q., Sun L.*
463712	**SVC and power transformers controllers coordination** *Malkowski R., Kowalak R., Klucznik J.*
462973	**The coordinating control of voltage and reactive power between SVC and DFIG after LVRT** *Ding R., Meng C., Qiao Y.*
462092	**Reliability and Stability Analysis of Corrective Topology Control Actions** *Korad A.S., Hedman K.W.*
462282	**Flexible Automatic Generation Control System for Embedded HVDC Links** *Gonzalez-Longatt F., Steliuk A., Hinojosa V.H.*
462133	**Model Predictive Control for Non-Linear Delayed Power Systems** *Molina-Cabrera A., Rios M.A., Velasquez M.A.*
461662	**Smart Grid: Algorithms for Control of Active- Adaptive Network Components** *Suslov K., Gerasimov D., Solodusha S.*
461715	**Reactive Power Control Strategy for Voltage Regulation and Power-Factor Correction in MV Distribution Networks** *Gatta F.M., Geri A., Maccioni M., Mantineo A., Cresta M., Paulucci M.*
461395	**Payoff Function and Nash Equilibrium in the Game of Automatic Voltage Control** *Zhang Y., Hu X., Li Q.*
462530	**Multi-objective Model Predictive Control Strategy for Damping Inter-area Power**

Oscillations

Mäki O., Turunen J., Seppänen J., Zenger K., Haarla L.

Session 9B - Power systems modeling, simulation, and analysis IV
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Paper ID	Title / Author(s)
462898	**Simulation for the evaluation of energy management algorithms at the district level – Example of use case from the AMBASSADOR project** *Bourry F., Wantier A., Ha D.L., Beguery P., Rousset N., Pflaum P.*
462472	**An Innovative Method to Develop Power System Equivalents with Focus on Inter-Area Oscillations and Primary Control Representation** *Semerow A., Hohn S., Bauer B., Luther M.*
477422	**Power Loss Investigation in HVDC for Cascaded H-Bridge Multilevel Inverters** *Alamri B., Darwish M.*
456042	**EHV Transmission Lines Wires Location on Line Operation Issues – Case Studies** *Klucznik J., Lubosny Z., Dobrzynski K., Czapp S.*
462479	**Network Usage with Probabilistic Distribution Factors Method** *Oros C., Barbulescu C., Pop O., Kilyeni S.*
462199	**The Transient Stability Analysis Based on WAMS and Online Admittance Parameter Identification** *Zhou H., Tang F., Jia J., Ye X.*
461980	**Including Forecasting Error of Renewable Generation on the Optimal Load Dispatch** *Osório G.J., Lujano-Rojas J.M., Matias J.C.O., Catalão J.P.S.*
462490	**Effects of power-to-gas on power systems: A case study of Denmark** *Heinisch V., Tuan L.A.*
459824	**Dispatch of Wind-Thermal Power System Containing Heat Storage Units with Fast Ramping Capabilities** *Zou X., Li M., Wang W., Niu Y., Liu J.*
499362	**Analytical Characterization of Nonlinear Modal Interaction in Power Systems with UPFC** *Rodríguez Villalón O., Medina Rios J.A., Andersson G.*
458313	**Comparison between the Improved Sequence Network Model of wind turbines and the Classical Model based on Sequence Networks for short-circuit studies** *González-Vásquez J.A., Toro N., Gutierrez J.F.*
462960	**Sea-wave power converter modeling for fault conditions analysis** *de Bosio F., Pastorelli M., Mazza A., Chicco G., Bracco G., Giorcelli E., Mattiazzo G., Raffero M.*
425692	**Induction Converters: PLL-Less Converters with Induct ion MachinesCharacterist ics** *Ashabani M.*

458789   **Wind Forecasting Using Kriging and Vector Auto-Regressive Models for Dynamic Line Rating Studies**
Fan F., Bell K., Hill D., Infield D.

460385   **Cost-Benefit Analysis of a Coordinated Grid Development in the North Sea**
Cole S., Martinot P., Rapoport S., Papaefthymiou G.

450649   **Optimal Power Flow in MTDC systems based on a DC-Independent System Operator Objective**
Gonzalez-Longatt F.

462118   **Voltage Regulation for Active Distribution Network: A Generalized Nash Game Approach**
Zhang J., Zhao T., Liu W., Tang Q., Zheng D.

Session 10A - Power system operation
Thursday, 2 July, 11:00 - 12:30

Paper ID	Title / Author(s)
458608	**Increasing the Performance of the P/V-Analysis as a System Security Assessment Tool** *Acker H., Jacobs J., Bloemker M., Vanzetta J., Loitz S., Wellssow W.H.*
460654	**Frequency Containment Reserves with large deadband** *Jomaux J., De Jaeger E.*
476995	**A Probabilistic Indicator of the Optimal Operator Action Time under Short-time Emergency Line Loadings** *Tumelo-Chakonta C., Kopsidas K.*
462618	**Real-Time Identification of Coherent Generator Groups** *Demetriou P., Hadjidemetriou L., Kyriacou A., Kyriakides E., Panayiotou C.*
456132	**Optimisation of the bidding strategy for wind power trading** *Hamilton D.I., McMillan D., Catterson V.M.*
449298	**Software Architecture Development and Implementation of a Synchrophasor-based Real-Time Oscillation Damping Control System** *Eldrich R., Vanfretti L., Almas M.S.*
462927	**Smart Grid Control and Communication: the SmartC2net Real-Time HIL Approach** *Ciontea C.I., Pedersen R., Kristensen T.L.F., Sloth C.E., Olsen R.L., Iov F.*
462155	**Managing Cascade Transformers Equipped with On-Load Tap Changers in Bidirectional Power Flow Environment** *Azimzadeh-Moghaddam F., Kulmala A., Repo S.*
461367	**Swiss TSO experience with an ac security-constrained optimal power flow application for real-time security management** *Centeno López P., Sadikovica R., Pinto H., Magnago F.*
496516	**One Rank Cuckoo Search Algorithm for Short-Term Hydrothermal Scheduling with Reservoir Constraint** *Nguyen T.T., Vo D.N., Ongsakul W.*
462104	**Multi-Agent System Based Solution of the Optimal Reactive Power Dispatch Problem in Autonomously Operated Multi-Area Systems** *Pham H.V., Ahmed S.N., Erlich I.*
462638	**Sensitivity analysis of local flexibilities for voltage regulation in unbalanced LV distribution system** *Vanet E., Touré S., Kechagia N., Caire R., HadjSaid N.*
462670	**Reconstruction of Transient Waveforms from Phasors Sampled at the Fundamental Frequency** *Salunkhe K., Kulkarni A.M.*

Session 10B - Development in power system planning II
Thursday, 2 July, 11:00 - 12:30

Paper ID	Title / Author(s)
461948	**Swiss TSO Integrated Operational Planning, Optimization and Ancillary Services System** *Tchoubraev D., Wiczynski D.*
450753	**Assessment of Suitability of Different Reliability Importance Measures for Prioritising Replacement of Transmission System Components** *Awadallah S.K.E., Milanovic J.V., Jarman P.N., Wang Z.D.*
473167	**Elimination of Structural Bottlenecks in Transmission Systems by an Automated Network Planning Process** *Pluntke H., Wellssow W.H.*
462962	**Improvement of methods for long-term transmission systems expansion in current conditions** *Drachev P.S., Trufanov V.V.*
459982	**Static Transmission Expansion Planning using Heuristic and Metaheuristic Techniques** *Gomes P.V., Tome Saraiva J.*
462932	**Operational vs. Structural Strategies for Distribution Grid Planning in Smart Grids Context** *Gouin V., Alvarez-Hérault M.C., Raison B.*
462552	**A Benchmark Case for Network Expansion Methods** *Barrios H., Roehder A., Natemeyer H., Schnettler A.*
497548	**Power Distribution Systems Planning With Distributed Thermal and Wind Generation** *Oliveira L.W., Gomes F.V., Oliveira E.J., Oliveira Â.R., Variz A.M., Silva H.A.*
497553	**Optimal Restoration of Power Distribution System Through Particle Swarm Optimization** *Oliveira L.W., Oliveira E.J., Silva Jr. I.C., Gomes F.V., Borges T.T., Marcato A.L.M., Oliveira A.R.*
458319	**Scenario analysis of generic feeders to assess the adequacy of the LV-grid in the coming decades** *Nijhuis M., Gibescu M., Cobben J.F.G.*
462768	**A MILP approach to plan an electric urban distribution network with an H-shaped layout** *Bosisio A., Amaldi E., Berizzi A., Bovo C., Fratti S.*
458563	**Network Partition Based on Critical Branches for Large-Scale Transmission Expansion Planning** *Lumbreras S., Ramos A., Olmos L., Echavarren F., Banez-Chicharro F., Rivier M., Panciatici P., Maeght J., Pache C.*

461983 **Fractal Geometry for Distribution Grid Topologies**
Barakou F., Koukoula D., Dimeas A., Hatziargyriou N.

477981 **Network Design Tool for the Optimal Design of Offshore Ocean Energy Array Networks**
Collin A.J., Nambiar A.J., Kiprakis A.E, Rea J., Whitby B.

462515 **Distribution System Expansion Planning with Renewable Sources. Case study: IEEE 33 Test System**
Barbulescu C., Kilyeni S., Simo A., Vernica A.

464375 **Energy Storage and DSM Opportunities in the Future European Power System**
Wiernes P.E., Moser A.

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