

Final Paper Status PowerAfrica 2007 - 22 June 2007

Paper Identifier Number	Paper Title	Corresponding Author
2	Allocation of Transmission Loss Cost with Traceable Flow Method in Power System Network	Hassan Siahkali
5	Transient Polarity Comparison for Integrated Protection of Distribution Network	Zhiqian Bo
8	The Use of an Electromagnetic Finite Elements Package to Aid in Understanding Shaft Voltages in a Synchronous Generator	Daniel de Canha
9	Exergy analysis for performance optimization of a steam turbine cycle	Tapan K. Ray
10	Proposed Transformer Paralleling Guide for IEEE Transformer Committee	E. Tom Jauch
11	Control Practices Contribute to Premature Transformer Failures	E. Tom Jauch
12	A New Partitioned Algorithm of Innovation Graph Technique	Yanjun Zhang
13	Protection and Substation Automation Systems: Standardisation, Integration and Information Technology	Ivan De Mesmaeker
14	A Step by Step Method for Z-loop Construction using Graph Theory and Topology for Power System Under Faulted Studies	Tedja Oepomo
15	Power Transformer Transient Based Protection Using Wavelet De-Noising	Z J Qu
16	New Topology of Multi - Level - Converter with Optimised Pulse Sequences	Frank Grundmann
17	Ant Colony Optimization-Based Approach to Optimal Reactive Power Dispatch: A Comparison of Various Ant Systems	Alireza Abbasy
18	A Generalized Power Flow Method to Assess Steady-State Equilibrium of Power Systems	Igor Kopcak
20	Fault Classification in Distribution Power Lines Based on Magnetic Field Measurement and Fourier Transform	Seyed Alireza Davari
24	Covered-Conductor Overhead Distribution Line Modeling and Experimental Verification for Determining its Line Characteristics	Ghulam Murtaza Hashmi
28	Loading Capability of Transformer in Over-excitation Condition	Mehdi Savaghebi
30	Proper Dimension of HTS Material for a Resistive Type SFCL in an 11kV Distribution System	Hossein Heydari
31	Harmonics Consideration of a Resistive Type Superconducting Fault Current Limiter	Hossein Heydari
33	Wind Measurements and Energy Potential for a Remote Village in Saudi Arabia	Shafiqur Rehman
34	Flicker Propagation in Interconnected Power Systems	Sankika Tennakoon
35	Analysis of System Asymmetry of Interconnected 66kV Sub-transmission Systems in Relation to Voltage Unbalance	Prabodha Paranavithana
36	Ground Layer Depth and the Effect of GPR	Arwut Puttarach
37	A Generation Reserve Optimization Model Incorporating Demand Market Participation	Pieter Smit
38	Online Voltage Stability Monitoring and Contingency Ranking using RBF Neural Network	B. Moradzadeh
39	Altruistic versus Profit Maximising System Operators of Rural Power Systems	Al-Mas Sendegeya
40	Feature Extraction of High Impedance Arcing Faults in Compensated MV Networks. Part I: DWT-Based Analysis of Phase Quantities	Nagy Elkalashy
41	Feature Extraction of High Impedance Arcing Faults in Compensated MV Networks. Part II: DWT-Based Analysis of Residual Components	Nagy Elkalashy
43	A Hybrid Strategy for Distributed Generators Islanding Detection	M. Abdel Rahman
44	Examining Power Line Communication on Egypt's Low Voltage Grid for AMR Network	M. Abdel Rahman
46	Simulation of Nonlinear Elements within the Framework of Time Domain	S. H. Hosseinian
47	Robustness Evaluation Of H Power System Stabilizer	Kabelo Mocwane
49	Evaluation of the Advanced Alarm processing facilities installed on Eskom's TEMSE energy management system	Richard Candy
51	Intelligent Local and Hierarchical Control of FACTS Devices	Salman Mohagheghi
56	Applying a New Simulated Annealing Algorithm to Control the THDV and Solve Continuous Problems	Soheil Ghadami
57	Feasibility of Increased Power Imports via Apollo Songo HVDC Scheme	Nhlanhla Mbuli
58	Thermostatic Load Modeling	M. Abdel Rahman
59	HVDC Strengthening in Southern Africa	Paul Tuson
60	Potential Applications and Network Considerations for an Emerging Technology – High Voltage Direct Current (HVDC) Technology in Africa	Irma Emmanuel Lubini
61	DC and AC Side Harmonics in CCC Converters	Luis Carlos Oriaga De Oliveira
63	Intelligent Optimal Control of Wind Power Generating System by a Complemented Linear Quadratic Gaussian Approach	Endusa Billy Muhando
64	Energy Consumption Modeling in South Africa Correlated with the Income	Willy Siti
65	Master Plan for the Electricity Distribution Network of Istanbul European Side	Mahmut Erkut Cebeci
66	Heuristic Guided Lagrangian Relaxation and Augmented La-grange Hopfield Network for Unit Commitment	Vo Ngoc Dieu/Weerakorn Ongsakul
67	A study of laser generated plasmas and their application to high voltage engineering	Nicholas John West
68	Optimization of the Efficiency of Aeolian Vibration Dampers	H. J. Krispin
70	Important Parameters for Prediction of Power Loads - A Bottom-Up Approach Utilizing Measurements from an Automatic Meter Reading System	Fredrik Wallin
71	An Online Method of Extracting Single Event Sag Indices	Raj Naidoo

72	Management of Voltage Dips for Large Industrial Customers	Ulrich Minnaar
73	Comparison of the lightning risk profile of different types of structures with incoming power services	Andrew Dickson
76	Optimization of shaped planar inductor windings in gapped core applications utilizing turns with constant resistance	Dawid Pentz
77	A Novel technique for shaped planar inductor winding optimization in gapped core applications	Dawid Pentz
79	Acoustic and HF Detection of Defects on Porcelain Pin Insulators	Cuthbert Nyamupangedengu
80	Voltage sag source location: case study in Zambian grid	Readlay Makaliki
83	Angle Modulated Particle Swarm Optimization Based Islanding of Large Scale Power Systems	Wenxin Liu
84	Investigation into the Complexity versus Performance of the DC Bus in a Voltage Fed Converter	I.W. Hofsaier
90	Eskom's New Coal-Fired Power Stations Programme Case of Bravo Power Station Scheme: Transmission Integration (Feasibility Study)	C. Shako Tulamba
91	Electrical Power Flow Spectral Analysis relating to Vibration in a Large Electromechanical System	C. Lines
92	A novel approach to providing on route power supplies to rural and urban communities in close proximity to the extra high voltage DC transmission	Andrew Williamson
93	MONITORING POWER QUALITY BEYOND EN 50160 AND IEC 61000-4-30	Amir Broshi
96	Interconnecting Large-scale Wind Power to Transmission Networks	Johan Enslin
97	The Analysis and Design of an Inter-Winding Shielding Structure of a High Frequency Transformer	I.W. Hofsaier
99	Geophysical and geological pre-investigations for HVDC Electrodes	Bo Westman
100	Application of Weighted Structured Total Least Squares in Identification of Power System Oscillation Modes	Rastko Zivanovic
104	Valuation of FACTS for Managing Congestion in Combined Pool and Bilateral Contract Electricity Markets	Le Anh Tuan
105	Design and Analysis of a Double-Sided Tubular Linear Synchronous Generator with Particular Application to Wave-Energy Conversion	Danson M. Joseph
106	The Impedance Chart and its application in obtaining the shape and complex plane position of the Out-of-Step polygons	Franco (LNF) de Villiers
108	A Study of Bird Streamer Initiated Breakdown Characteristics Under HVDC Conditions	N.M. Ijumba
109	A comparative study of space charge effects on corona current using an indoor corona cage and a monopolar test line	N. M. Ijumba
110	A Real-Time Simulator Study Into The Performance Of A Novel Voltage Regulator For On-Load Tap-Changing Transformers	Bruce Rigby
111	A FACTS-Based Power Flow Controller For The IEEE SSR First Benchmark Model	Bruce Rigby
113	Automated Real-Time Simulator Testing Of Protection Relays	Bruce Rigby
115	Identification of Induction Machines Stator Currents with Generalized Neurons	Ganesh Venayagamoorthy
116	Grid-Connected and Islanded Operation of a Hybrid Power System	Yi Zhou
120	Design of a Portable Hand Crank Generating System to Power Remote Off-Grid Communities	Long Wu
121	Commissioning of an AMR Prototype System by PLC Technology	Soodeh Haghgoo
123	The electrical demand by transport on the grid after oil depletion	Johan Wolmarans
124	Application of Evolution Algorithm in Power System Control Design	KA Folly
126	A Fuzzy Technique for Voltage Control During Parallel Operation Between In-Plant Generation and Utility	Ahmed Hegazy/Yasser Galal
127	A Dynamic Fault Current Limiter (DFCL)	Hubert Rubenbauer
130	Coordinated Control of Multiple HVDC systems for damping interarea oscillations in CSG	Wu Xiaochen
131	Comparison of Standards for Determining Losses and Efficiency of Three-Phase Induction Motors	Heskin Mzungu
133	An Integrated Design Approach for Small Grid-tied Permanent Magnet Wind Generators	Mohamed Azeem Khan
135	Standards and Technical Guidelines for the Interconnection of Renewable Energy Sources into the Grid (Distribution Networks)	Taru Madangombe
137	Proposed Ancillary Services for the Southern African Power Pool	Graeme Chown
138	Study on the Key Equipment's Insulation Level of ± 800 kV UHVDC Power Transmission Project	Lv Jinzhuang
139	Study on Pollution Flashover Characteristics of ± 800 kV DC Composite Insulators	Luo Bing Lili Cheng
140	Study on Overload Capability and Its Application of HVDC Transmission Systems in China Southern Power Grid	Xu Aidong
141	Study on the Dynamic Performance of AC & DC Hybrid System	Kaijian Ou
142	Using Cross-Correlation Coefficients to Analyze Transformer Sweep Frequency Response Analysis (SFRA) Traces	G Mathiew Kennedy
143	Transformer Internal Over-Voltages Caused by Remote Energisation	John Lapworth
144	Asset Health Reviews to Manage Remaining Life	Alan Wilson
145	On Distribution Asset Management: Development of Replacement Strategies	Miroslav Begovic
146	Changing the Tele-control Protocol to support Substation Based Intelligent Alarm Processing and Direct Control Staff Interaction with the Substation	Richard Candy
147	Mitigation and cure of hot spot problem with a new apparatus in large power transformers and analyzing by Ants algorithm	Kourosh Mousavi Takami