UPEC2008 - Technical Sessions

	MONDAY 1 SEPTEMBER	TUESDAY 2 SEPTEMBER					WEDNESDAY 3 SEPTEMBER					THURSDAY 4 SEPTEMBER				
9:00 10:45	TUTORIAL	2M1	2M2	2M3	2M4	POS1	3M1	3M2	3M3	3M4	POS3	4M1	4M2	4M3	4M4	POS4
10:45 11:15		*Coffee Break*					*Coffee Break*					*Coffee Break*				
11:15 13:00		2M5	2M6	2M7	2M8		3M5	3M6	3M7	3M8		4M5	4M6	4M7	4M8	
13:00 14:30	*Lunch (tutorial participants)*	*Lunch*					*Lunch*					*Lunch*				
14:30 16:15	Registration Guided tours	2A1	2A2	2A3	2A4	POS2										
16:15 16:45		*Coffee Break*														
16:45 18:30	OPENING CEREMONY	2A5	2A6	2A7	2A8											

Power System Operation and Control	2M1 - 2M5 - 2A4 - 3M1 - 3M5 - 4M1
Power System Simulation and Analysis	2M2 - 2M6 - 2A2 - 2A5 - 3M2 - 4M2 - 4M8
Distributed Generation	2M3 - 2M7 - 4M4
Renewable Energy Systems & Smart Grids	2A3 - 2A6 - 3M4 - 3M7 - 4M7
Power Quality	2A1 - 2A7 - 3M8
High Voltage Engineering and Dielectrics	3M6
Electromagnetic & Electrostatic Effects	3M3
Electrical Machines and Drives	2M4 - 2A8 - 4M3
Power Electronics and Devices & Power Conversion	2M8 - 4M5
Electric transportation and mobility applications	4M6

Session 2M1
Power System Operation and Control

Date:
Tuesday 2 Sept

Time:
9:00 – 10:45

Location:
Room BC/60

Chairman:
Prof. A. Ametani

1-87 **Integrated Protection of Distribution Lines Using Transient Comparison Technique**
Bo Z.Q.,Klimek A.,Xu R.D.,Dong X.Z. (UK - China)

1-62 **Surge Propagation Charactesistics on Nonuniform Lines**
Sekioka S. (Japan)

1-83 **Measurement Placement Algorithms for State Estimation when the Number of Phasor Measurements by each PMU is Limited**
Hurtgen M.,Praks P.,Maun J.C.,Zajac P. (Belgium)

1-73 **Optimal Sliding Mode Controller for Power System's Load-Frequency Control**
Radošević T.,Vrdoljak K.,Perić N. (Croatia)

1-122 **Environmentally Significant Operational Loss Reduction on the Full GB Transmission Network**
Macfie P.,Wan H.,Morfill R.,Bradley M.,Taylor G.A.,Irving M.R. (UK)

1-210 **Impacts of Small Synchronous Generators at Medium Voltage on Transient Stability of Bulk Power System**
Aghamohammadi M.R.,Saeedi M.,Zare M. (Iran)

13-239 **The Challenges and Opportunities of Workforce Development in Power Engineering and How the IEEE PES is helping**
Schulz N.N.,Reder W. (USA)

Session 2M2
Power System Simulation and Analysis

Date:
Tuesday 2 Sept

Time:
9:00 – 10:45

Location:
Room AB/45

Chairman:
Prof M. Al-Tai

2-50 **A Dynamic Modelling Environment for the Evaluation of Wide Area Protection Systems**
Abdulhadi I.F.,Tumilty R.M,Burt G.M.,McDonald J.R (UK)

2-419 **Analysis of Interconnected Earthing Systems of MV/LV Substations in Urban Areas**
Campoccia A.,Riva Sanseverino E.,Zizzo G. (Italy)

2-64 **An Analytical Approach to the Indication of Small Disturbance Angle Stability in Future Power Systems**
Jahromi N.F.,Papaefthymiou G.,van der Sluis L. (Netherlands)

2-65 **Multi-Objective Vector Evaluated PSO with Time Variant Coefficients for Outlier Identification in Power Systems**
Li F.,Liu Z.,Ma C.,Lin H.,Zhao L.,Chen T. (China)

2-80 **Bifurcation Analysis and Chaos Detection in Power Systems**
Grillo S.,Massucco S.,Morini A.,Pitto A.,Silvestro F. (Italy)

2-278 **Simulation Study of the Secondary Arc Extinction due to Single Line to Ground Fault on the Thailand 500 kV Line from Mae Moh to Tha Ta Ko**
Ngamsanroaj K.,Premrudeepreechacharn S.,Chimklai S. (Thailand)

2-380 **Economic Assessment of Transmission Expansion Projects in Competitive Electricity Markets – An Analytical Review**
Hesamzadeh M.R.,Hosseinzadeh N.,Wolfs P.J. (Australia)

Session 2M3
Distributed Generation

Date:
Tuesday 2 Sept

Time:
9:00 – 10:45

Location:
Room AB/40

Chairman:
Dr. H. Griffiths

3-66 **A Particle Swarm Optimization for Sitting and Sizing of Distributed Generation in Distribution Network to improve Voltage Profile and Reduce THD and Losses**
Alinejad-Beromi Y.,Sedighizadeh M.,Sadighi M. (Iran)

3-160 **Analysis of Island-Operated Distribution Networks with Distributed Induction Generation under Fault Conditions**
Sulla F.,Samuelsson O. (Sweden)

3-219 **Protection, Transient Stability and Fault Ride-Through Issues in Distribution Networks with Dispersed Generation**
Xyngi I.,Ishchenko A.,Popov M.,van der Sluis L. (Netherlands)

3-234 **Optimal Distributed Generation Allocation in Distribution Systems Employing ANT Colony to Reduce Losses**
Sheidaei F.,Shadkam M.,Zarei M. (Iran)

3-237 **Effects of Line Parameters on Performance of Voltage Source Converters in Distributed Generation Systems**
Chen Z.,Hu Y.,McKenzie H. (Denmark - UK)

3-243 **Investigation Into the Implementation of Auto Reclosing Scheme in Distribution Networks with High Penetration of DGs**
Tan S.F.,Salman S.K. (UK)

3-151 **Reconfiguration of Deregulated Distribution Network for Minimizing Energy Supply Cost by Using BGA**
Kargar H.K.,Jalilzadeh S.,Rezazadeh A.,Nabi V.,Zaree Govar G. (Iran)

Session 2M4
Electrical Machines and Drives

Date:
Tuesday 2 Sept

Time:
9:00 – 10:45

Location:
Room AD/50

Chairman:
Dr. F. Robinson

9-161 **Controlled Switching of Transformers – Effects of Closing Time Scatter and Residual Flux Uncertainty**
Ebner A.,Bösch M.,Cortesi R. (Switzerland)

9-283 **Sensorless Indirect Field-Oriented Control of Induction Motor using Intelligent PI Controller**
Noroozi-Varcheshme N.,Ranjbar-Noiey A.,Karimi-Davijani H. (Iran)

9-430 **Main Protection Scheme Design and Engineering Application of Multi-Branch Hydro Generator in Zhexi Power Station**
Yongjun Xia,Gang Hu,Xianggen Yin,Zhe Zhang,Wei Chen (China)

9-304 **Torque Evaluation of Permanent Magnet DC Commutator Motor using FEM Data**
Cvetkovski G.,Petkovska L. (Macedonia)

9-316 **A Novel Method for Real-time Generating Synchronous Machine Eq Waveforms and its Application System**
Yu W.,Wang S.,Cheng S.,Ma J. (China)

9-352 **Generator Excitation Control using Parameter Space Design Method**
Yoshimura S.,Iki H.,Uriu Y.,Anai H.,Hyodo N. (Japan)

9-405 **Performance Evaluation for Mixed Pole Machines with Electromechanical Torque and Rotor Electric Power and Stability Analysis**
Abdel-Khalik A.,Masoud M.I.,Mohamadein A.L.,Williams B.W.,Magdy M. (UK)

Session 2M5
Power System Operation and Control

Date:
Tuesday 2 Sept

Time:
11:15 – 13:00

Location:
Room BC/60

Chairman:
Prof. S. Massucco

1-88 **Adaptative Control for Power Oscillation Damping by Means of a Thrystor Controlled Series Capacitor (TCSC)**
Monge M.,Johansson N.,Ängquist L.,Nee H.P. (Sweden)

1-212 **Power Generation Redispatching to Improve Transient Stability in Power Systems using Controllability and Observability Gramians**
Nguyen D.T.,Georges D.,Tran Q.T. (France)

1-172 **System Operator Interfaces to Active Network Management Schemes in Future Distribution Networks**
Hay S.L.,Ault G.W.,Bell K.R.W.,McDonald J.R. (UK)

1-114 **The Simplifying Partition Algorithm of Reliability Evaluation to Complicated Medium Voltage Power Distribution Grid**
Zhou Ling,Ding Xiaoqun,Yan Huimin,Liu Hongliang (China)

1-303 **Simulated Power System Restoration**
Samuelsson O.,Lindgren L.,Eliasson B. (Sweden)

1-216 **Risk Based Spinning Reserve Allocation Considering Emergency Demand Response Program**
Yousefi A.,Shayesteh E.,Zare K.,Kazempour J.,Moghaddam M.P.,Haghifam M.R. (Iran)

1-105 **Optimal Power Flow Solution by a Modified Particle Swarm Optimization Algorithm**
Hajian-Hoseinabadi H.,Hosseini S.H.,Hajian M. (Iran)

Session 2M6
Power System Simulation and Analysis

Date:
Tuesday 2 Sept

Time:
11:15 – 13:00

Location:
Room AB/45

Chairman:
Prof A. Morini

2-224 **Maximum Loss Reduction Applying Combination of Optimal Conductor Selection and Capacitor Placement in Distribution Systems with Nonlinear loads**
Marvasti V.,Abyaneh H.A.,Mazlumi K. (Iran)

2-148 **Overvoltage Protection on a DC Marine Electrical System**
Fletcher S.D.A.,Norman P.J.,Galloway S.J.,Burt G.M. (UK)

2-96 **A Multilateral Market Coupling Approach for the Allocation of Cross Border transmission Capacity**
Genesi C.,Marannino P.,Montagna M.,Siviero I.,Zanellini F. (Italy)

2-346 **Application of Energy Management Systems in JCC**
Barus D.,Turnip S. (Indonesia)

2-358 **Comparison of Loss Allocation Methods in a Regulated System (A case study at Java-Bali 500kV Grid System in Indonesia)**
Ansyari F.,Özveren C.S.,King D. (UK)

2-111 **A Combinatorial Approach Based on Wavelet Transform and Hidden Markov Models in Differential Relaying of Power Transformers**
Jazebi S.,Vahidi B.,Hosseinian S.H.,Shafiee M.,Naghizadeh R.A. (Iran)

2-112 **Analysis and Prediction of Power and Energy Losses in Distribution Networks**
Schau H.,Novitskiy A. (Germany)

Session 2M7
Distributed Generation

Date:
Tuesday 2 Sept

Time:
11:15 – 13:00

Location:
Room AB/40

Chairman:
Prof. B. Fox

3-276 **Overview of Short-Circuit Contribution of Various Distributed Generators on the Distribution Network**
Karaliolios P.,Ishchenko A.,Coster E.,Myrzik J.M.A.,Kling W.L. (Netherlands)

3-355 **Islanding Operation of Distributed Generators in Active Distribution Networks**
Chowdhury S.P.,Chowdhury S.,Ten C.F.,Crossley P.A. (India - UK)

3-387 **Transient Stability Evaluation of Wind Farms Implemented with Induction Generators**
Najafi H.R.,Robinson F.,Dastyar F.,Samadi A. (Iran - UK)

3-311 **Distributed Generation in the Dutch LV Network - Self-supporting Residential Area -**
Mes M.,Vanalme G.M.A.,Myrzik J.M.A.,Bongaerts M.,Verbong G.J.P.,Kling W.L. (Netherlands)

3-258 **The Role of Micro Wind Generation in Irelands Energy Future**
Sunderland K.,Conlon M.F. (Ireland)

5-202 **The Importance of IEC 61850 Interoperability Testing**
Tan J.C.,Zhang C.,Bo Z.Q. (China)

3-155 **A New Fault Location Algorithm for Distribution Systems with Distributed Generations**
Jamali S.,Talavat V. (Iran)

Session 2M8
Power Electronics and Devices & Power Conversion

Date:
Tuesday 2 Sept

Time:
11:15 – 13:00

Location:
Room AD/50

Chairman:
Dr. M. Conlon

10-25 **An Algorithm for Design Considerations on Semiconductor Rectifier Transformers**
Sedighizadeh M.,Khatibi M.,Keshavarzi M.T. (Iran)

10-152 **Mathematical Modeling and Current Control of a Voltage Source Converter**
Božiček A.,Blažič B.,Papič I. (Slovenia)

10-250 **A Discussion about the Effect of the MID Directive on the Calibration of Energy Meters**
Bernieri A.,Ferrigno L.,Laracca M.,Luongo C. (Italy)

10-359 **The Controllable Non-linear Reactor in Electronic Ballasts Applications: A Behavioural Analysis of the Inductance as a Function of both AC and DC bias Currents**
Perdigão M.S.,Saraiva E.S.,Alonso J.M.,Cervi M. (Portugal)

10-320 **Controller Design of a New DC Power Supply With Reduced Number of Switches**
Dastfan A.,Behrangi F. (Iran)

10-146 **A Current Source Power Supply for Driving of Series Connected Power Switch**
Ahmad A.A.,Abrishamifar A.,Mirzargar M. (Iran)

10-440 **IGBT Tail Current Reduction by Current Injection Technique**
Eio S.,Shammas N.Y.A. (UK)

10-441 **Thermoelectric Technology: Micro-electrical and Power Generation Properties**
Gould C.A.,Shammas N.Y.A.,Grainger S.,Taylor I. (UK)

Session 2A1
Power Quality

Date:
Tuesday 2 Sept

Time:
14:30 - 16:15

Location:
Room AD/50

Chairman:
Prof. P. Verde

6-44 **Transient Stability Analysis of a Power System with High Wind Penetration**
Meegahapola L.,Flynn D.,Littler T. (UK)

6-47 **The Structural Stability Analysis of Active Power Filter and Its Capability of Suppressing EMI**
Zhang L.,Luo X.,Liu X.,Ding K. (China)

6-107 **Online Power Quality Measurements and Voltage Sags Analysis**
Nikolovski S.,Klaić Z.,Kraus Z.,Slipac G. (Croatia)

6-461 **Some Considerations on Interharmonic Voltage Limits and their Assessment**
Langella R.,Testa A. (Italy)

6-223 **Flicker Measurements in Transmission Network**
Maksić M.,Blažič B.,Papič I. (Slovenia)

6-29 **Voltage Stability Analysis and Improvement for South-West Libya Electrical Power System, Part 1: Problem Identification**
Wadi M.R.,Bara M.F.,Carlson O.,Elammari F.A. (Libya)

6-204 **Impact of High Penetration of CHP Generation on Urban Distribution Networks**
Boljevic S.,Conlon M.F.,Barry N. (Ireland)

Session 2A2
Power System Simulation and Analysis

Date:
Tuesday 2 Sept

Time:
14:30 - 16:15

Location:
Room AB/45

Chairman:
Prof. N. Nagaoka

2-325 **Electricity Load Profile Classification Using Fuzzy C-means Method**
Prahastono I.,King D.,Özveren C.S.,Bradley D. (UK)

2-412 **Long-term Load Forecasting for Iranian Power Grid using Artificial Neural Networks**
Dalvand M.M.,Azami S.B.Z.,Tarimoradi H. (Iran)

2-399 **Wind Turbine Mechanical Characteristics and Grid Parameters Influence on the Transient Voltage Stability of a Fixed Speed Wind Turbine**
Dusonchet L.,Massaro F.,Telaretti E. (Italy)

2-398 **Effects of Electrical Parameters of Induction Generator on the Transient Voltage Stability of a Fixed Speed Wind Turbine**
Dusonchet L.,Massaro F.,Telaretti E. (Italy)

2-220 **A Derivative Based Instantaneous Frequency Tracking Algorithm**
Zhang C.,Tan J.C.,Kirby B.,Bo Z.Q. (China - UK)

2-101 **Composite Hydrothermal Generation and Transmission System Reliability Evaluation using Sequential Monte Carlo Simulation**

Azimi M.,Amjady N. (Iran)

2-381 **Derivation of a New Mathematical Framework for Transmission System Augmentation using von Stackelberg Game**
Hesamzadeh M.R.,Hosseinzadeh N.,Wolfs P.J. (Australia)

Session 2A3
Renewable Energy Systems & Smart Grids

Date:
Tuesday 2 Sept

Time:
14:30 - 16:15

Location:
Room AB/40

Chairman:
Prof. B. Bitzer

4-131 **Novel Single Stage Grid Connected PV System with Reactive Power Control**
Bagheri M.,Kojabadi H.M.,Zarei M. (Iran)

4-137 **Techno-Economic Analysis of Thermal Power Generation in a System with High Levels of Non-dispatchable Renewable Energy**
Keatley P.,Hewitt N. (UK)

4-221 **Modelling and Control of Fuel Cell-Battery Hybrid Power Systems for Portable Electronics**
Alotto P.,Guarnieri M.,Moro F. (Italy)

4-143 **Doubly-Fed Induction Generator Models for Optimization Algorithm of Wind Farms**
Das M.K.,Chowdhury S.,Chowdhury S.P.,Crossley P.A. (India - UK)

4-416 **Modeling of Doubly Fed Induction Generator (DFIG) Equipped Wind Turbine for Dynamics Studies**
Marinelli M.,Morini A.,Pitto A.,Silvestro F. (Italy)

4-27 **Micro, midi or macro? Onshore wind turbine economics for Scotland**
Makkawi A.,Gupta N.,Muneer T. (UK)

4-149 **New Grounding System of Wind Turbines**
Kargar H.K.,Sedighizadeh M.,Mosavi A. (Iran)

Session 2A4
Power System Operation and Control

Date:
Tuesday 2 Sept

Time:
14:30 - 16:15

Location:
Room BC/60

Chairman:
Prof. N.N. Schulz

1-162 **A Study on Outage Planning for Electric Power Facilities by Using GAs**
Kawahara K.,Yoshimoto S. (Japan)

1-121 **Flexible Voltage Control to Support Distributed Generation in Distribution Networks**
Fila M.,Taylor G.A.,Hiscock J.,Irving M.R.,Lang P. (UK)

1-402 **Performance and Control of Photovoltaic Systems Supplying both Primary and Ancillary Services**
Delfino F.,Denegri G.B.,Invernizzi M.,Procopio R. (Italy)

1-457 **Enhancing Transient and Small Signal Stability in Power Systems Using a Posicast Excitation Controller**
Aghamohammadi M.R.,Ghorbani A.,Pourmohammad S. (Iran)

1-436 **Second Order Sensitivities for Constrained Reactive Optimal Power Flow**
Berizzi A.,Bovo C.,Merlo M.,Callegari G.,Porcellini M.,Pozzi M. (Italy)

1-134 **Optimized POD in Coordination with UPFC for Damping of Power System Oscillations**
Dhurvey S.N.,Chandrakar V.K. (India)

1-163 **A New Approach for FACTS Devices Allocation to Enhance Voltage Stability Using Sensitivity Based Genetic Algorithm**
Gitizadeh M.,Kalantar M. (Iran)

1-271 **Frequency Analysis for Planned Islanding Operation in the Danish Distribution System-Bornholm**
Chen Y.,Xu Z.,Ostergaard J. (Denmark)

Session 2A5
Power System Simulation and Analysis

Date:
Tuesday 2 Sept

Time:
16:45 – 18:30

Location:
Room BC/60

Chairman:
Dr. P. Howson

2-205 **Investigation of Damping Effect of Power System Stabilizer in the Presence of Communication Delays**
Ayasun S.,Gelen A. (Turkey)

2-215 **A Conjectural Supply Function Model for the Italian Electricity Market**
Abeygunawardana A.M.A.K.,Berizzi A.,Bovo C.,Innorta M. (Italy)

2-110 **Comparison of Steady-State SVC Models in Load Flow Calculations**
Chen P.,Chen Z.,Bak-Jensen B. (Denmark)

2-218 **European energy policy goals: rivals or friend in transmission?**
Bekaert D.,Buijs P.,Meeus L.,Delarue E.,Belmans R. (Belgium)

2-443 **An Architecture Wi-Fi and GPRS for Efficient Management of Distribution Electrical Networks**
Campoccia F.,Incontrera I.,Riva Sanseverino E.,Tinnirello I. (Italy)

2-45 **Measured Impedance at Relaying Point Considering Transmission Line Capacitance**
Shateri H.,Jamali S. (Iran)

2-127 **Measured Impedance at Relaying Point for Inter Phase Faults on Next Line**
Shateri H.,Jamali S. (Iran)

Session 2A6
Renewable Energy Systems & Smart Grids

Date:
Tuesday 2 Sept

Time:
16:45 – 18:30

Location:
Room AB/45

Chairman:
Dr. G. Pisano

4-51 **CFD Analysis of the Thermal State of an Overhead Line Conductor**
Makhkamova I.,Taylor P.C.,Bumby J.R.,Mahkamov K. (UK)

4-191 **Active and Reactive Power Control of DFIG Using SVPWM Converter**
Karimi-Davijani H.,Sheikholeslami A.,Ahmadi R.,Livani H. (Iran)

4-297 **Equipment And Methodology For Linking Overhead Line Circuit Ratings To The Output Of Nearby Windfarms**
McClean L.,Bryans L.,Colandairaj J.,Fox B.,O'Sullivan B. (UK)

4-302 **Custom Power Systems and Software Platforms for Wind Farms Under Voltage Dips Situations**
Álvarez C.,Amarís H.,Samuelsson O.,Flórez D.,González L. (Spain - Sweden)

4-308 **Wind Generation System – A Comprehensive Survey Report**
Kaur K.,Chowdhury S.P.,Chowdhury S. (India)

4-367 **Identification of Wind Turbine Model for Individual Pitch Controller Design**
Petrović V.,Jelavić M.,Perić N. (Croatia)

Session 2A7
Power Quality

Date:
Tuesday 2 Sept

Time:
16:45 – 18:30

Location:
Room AB/40

Chairman:
Dr. M. Albano

6-198 **A Novel Method Based on Wavelet Threshold De-noising Technology and Prony Analysis for Flicker Measurement**
Zhang Y.,Chen Q.,Liu J.,Hu Y.,Cao Y.J. (China)

6-306 **A Study of Tower Shadow Effect on Fixed-Speed Wind Turbines**
McSwiggan D.,Littler T.,Morrow D.J.,Kennedy J. (UK)

6-72 **Wind Power Fluctuations Mitigation by DC-Link Voltage Control of Variable Speed Wind Turbines**
Hu W.,Chen Z.,Wang Y.T.,Wang Z. (China - Denmark)

6-463 **Effects of Frequency Deviation on the Accuracy of Harmonic Analysis and Mitigation**
Bentley E.C.,Putrus G.A.,Minns P.,Mc Donald S. (UK)

6-335 **Quasi-Resonant DC-Link Control of Three-Level Active Power Filter**
Io-Keong Lok,Man-Chung Wong (China)

6-344 **Transformer Dynamic Loading Capability Assessment Under Non linear Load Currents**
Savaghebi M.,Gholami A.,Jalilian A. (Iran)

6-41 **Unbalance and Harmonic Currents Impact on Electric Distribution Grids. Study Case**
Chindris M.,Cziker A.,Miron A. (Romania)

Session 2A8
Electrical Machines and Drives

Date:
Tuesday 2 Sept

Time:
16:45 – 18:30

Location:
Room AD/50

Chairman:
Dr. L. Sgarbossa

9-79 **Closed Loop Bandwidth Impact on Doubly Fed Induction Machine Asymmetries Detection Based on Rotor Voltage Signature Analysis**
Casadei D.,Filippetti F.,Rossi C.,Stefani A. (Italy)

9-43 **Control of a Double Fed Induction Generator Wind Turbine during Network Voltage Unbalance Conditions**
Kearney J.,Conlon M.F. (Ireland)

9-459 **Optimized Control Technique of Single Inverter Dual Motor AC-brushless**
Acampa M.S.D,Del Pizzo A.,Iannuzzi D. (Italy)

9-21 **Signal Based Fault Detection for Stator Insulation in Electric Motors**
Ayaz E.,Ucar M.,Seker S.,Upadhyaya B.R. (Turkey)

9-97 **Rotor Angle Estimation of Synchronous Generator from Online Measurement**
Ghahremani E.,Karrari M.,Menhaj M.B.,Malik O.P. (Iran - Canada)

9-157 **Effect of Marangoni Force on the Volumetric Erosion of Electrical Contact Materials of Power Switch**
Xu J.,Xiong W.,Li Z. (China)

Session 3M1
Power System Operation and Control

Date:
Wednesday 3 Sept

Time:
9:00 – 10:45

Location:
Room BC/60

Chairman:
Dr. C. Bovo

1-75 **Mitigation of Power System Blackout by Blocking Zone3 of Minimum Distance Relays**
Zare M.,Aghamohammadi M.R.,Saeedi M. (Iran)

1-445 **Optimal Location of Biogas and Biomass Generation Plants**
Celli G.L.,Ghiani E.,Loddo M.,Pilo F. (Italy)

13-248 **The U.S. ESRDC Advances Power System Research for Shipboard Systems**
Schulz N.N.,Hebner R.E.,Dale S.,Dougal R.,Sudhoff S.,Zivi E.,Chryssostomidis C. (USA)

1-200 **Model of Interruptible Load Contract for Minimum Compensation Cost**
Zhang Y.,Chen W.,Gao Q.,Liu Z.,Cao Y.J. (China)

1-295 **Controlled Islanding Scheme for Power Systems**
El-werfelli M.,Brooks J.,Dunn R. (UK)

1-211 **Adaptive Distance Protection of Double-Circuit Lines Based on Differential Equation Fault Loop Model**
Bozek M.,Izykowski J. (Poland)

1-133 **Damping improvement by SSSC and STATCOM in a Part of Iran Electrical Network**
Sedighizadeh M.,Toulabi M.S.,Rezazadeh A,Khatibi M.,Allahverdi-Charandabi B. (Iran)

Session 3M2
Power System Simulation and Analysis

Date:
Wednesday 3 Sept

Time:
9:00 – 10:45

Location:
Room AB/45

Chairman:
Prof. S. Chowdhury

2-275 **A Matlab-based Tool for Power System Dynamics Analysis: a Comparison with PSS/E**
Vargas R.,Sellschopp F.S.,Arjona M.A.,Díaz D. (Mexico)

2-120 **A Fuzzy-Logic Based Bidding Strategy for Participants in the UK Electricity Market**
Hu L.,Taylor G.A.,Irving M.R. (UK)

2-393 **Development of Simulation Program for Transient Stability Analysis in Korean Nuclear Power System**
Zhu O.,Oh S.,Kim K.J. (Korea)

2-280 **Daily Load Response Model to Electricity Price for Customers**
Cai L.,Chen Z.,Bak-Jensen B. (Denmark)

2-377 **Electric Arc Fornace and its Effect on the Shaft of the Local Power System Generator**
Torki M.H.,Poudeh M.B.,Eshtehardiha S.,Torabian M. (Iran)

2-230 **Comparison of Modified K-Means and Hierarchical Algorithms in Customers Load Curves Clustering for Designing suitable Tariffs in Electricity Market**
Kohan N.M.,Moghaddam M.P.,Bidaki S.M.,Yousefi G.R. (Iran)

2-240 **Distributed Optimal Reactive Power Dispatch based on Parallel Particle Swarm Optimization Algorithm**
Li Y.,Jiang L.,Wu Q.H.,Jiang Q.Y.,Cao Y.J. (China - UK)

2-153 **Establishment and Characterization of a Traceable AC Voltage Source at Nis, Egypt**
Mageed H.A.,Halawa M.,Zobaa A.F.,Abdel Aziz M.M. (Egypt)

Session 3M3
Electromagnetic & Electrostatic Effects

Date:
Wednesday 3 Sept

Time:
9:00 – 10:45

Location:
Room AD/50

Chairman:
Prof. P.N. Mikropoulos

8-170 **Magnetic Shielding of MV/LV Substations: Numerical Modeling and Experimental Validation**
Desideri D.,Guarnieri M.,Maschio A.,Moro F. (Italy)

8-186 **Computation of Magnetic Field from Quadruple Tower Transmission Lines in Malaysia**
Said I.,Hussain H.B. (Malaysia)

8-318 **Human Exposure to Electric Fields Under an Overhead MV Power Line**
Desideri D.,Maschio A.,Poli E. (Italy)

8-453 **Inductive and Conductive Interference Problems for Practical Cases Solved with Special Interpolation Algorithms**
Micu D.D.,Ceclan A.,Darabant L.,Stet D. (Romania)

8-460 **Electromagnetic Forces on Contacts**
Kulas S.J.,Kolimas L.,Piskala M. (Poland)

8-465 **Experimental Validation of Coupled Electromagnetic Thermal FEM Model of Trasverse Flux Heaters**
Bullo M.,Dughiero F.,Forzan M.,Lupi S.,Spagnolo A. (Italy)

8-268 **Electric Field Radiation from an Overhead Transmission Line Located Above a Lossy Ground**
Taheri P.,Kordi B.,Gole A.M. (Canada)

Session 3M4
Renewable Energy Systems & Smart Grids

Date:
Wednesday 3 Sept

Time:
9:00 – 10:45

Location:
Room AB/40

Chairman:
Prof. S.K. Salman

4-1 **Investigation into the Use of Hydrogen Technology with a Wind Farm Constrained by the Grid**
Blake S.,Taylor P.C. (UK)

4-24 **A Self-Tuning PID Control for a Wind Energy Conversion System Based on the Lyapunov Approach**
Sedighizadeh M.,Rezazadeh A.,Khatibi M. (Iran)

4-38 **Wind Generator with Double Stator Induction Machine. Control Strategy for a Water Pumping Application.**
Camocardi P.,Battaiotto P.,Mantz R. (Argentina)

4-48 **Overview of Biomass Conversion and Generation Technologies**
Loeser M.,Redfern M.A. (UK)

4-92 **Managing Variability of Wind Energy with Heating Load Control**
Savage H.,Kennedy J.,Fox B.,Flynn D. (UK)

4-113 **Voltage Stabilization in Connection of Wind Farms to Transmission Network Using VSC-HVDC**
Livani H.,Rouhi J.,Karimi-Davijani H. (Iran)

4-447 **Case Study: Malaysian Student Experience in Conducting Electrical Power Project**
Zulkifli S.A.,Ahmad Z.,Hamdan R.,Jalaludin N.A. (Malaysia)

Session 3M5
Power System Operation and Control

Date:
Wednesday 3 Sept

Time:
11:15 – 13:00

Location:
Room BC/60

Chairman:
Prof. G. Burt

1-71 **Available Transfer Capability Enhancement Using Series FACTS Devices in a Designed Multi-Machine Power System**
Arzani A.,Jazaeri M.,Alinejad-Beromi Y. (Iran)

1-95 **A Genetic Continuation Power Flow Approach to Assess Power System Vulnerability**
Genesi C.,Granelli, G.,Marannino P.,Montagna M.,Siviero I. (Italy)

1-115 **AVC System Based on On-line Voltage Stability Monitoring System**
Ding Xiaoqun,Zhou Ling,Liu Hongliang (China)

1-226 **A MIP-Based Optimal Operation Scheduling of Pumped-Storage Plant in the Energy and Regulation Markets**
Kazempour S.J.,Yousefi A.,Zare K.,Moghaddam M.P.,Haghifam M.R.,Yousefi G.R. (Iran)

1-435 **The Protection Principle and Engineering Application of Double-Circuit Transmission Lines in China**
Yongjun Xia,Gang Hu,Xianggen Yin,Zhe Zhang,Wei Chen (China)

1-287 **Removal of Decaying DC Offset in Current Signals for Power System Phasor Estimation**
Eisa A.A.A.,Ramar K. (Malaysia)

1-22 **Optimizing the Re-Closing Time to Improve the Transmission Capacity of Power System**
Hao Z.G.,Rao Y.F.,Wang Y.T.,Bo Z.Q.,Klimek A.,Rao Y.F.,Wang Y.T. (China)

Session 3M6
High Voltage Engineering and Dielectrics

Date:
Wednesday 3 Sept

Time:
11:15 – 13:00

Location:
Room AD/50

Chairman:
Prof. C.A. Stassinopuolos

7-147 **Impulse Breakdown of Short Rod-plane Air Gaps with a Dielectric Covered Rod**
Mavroidis P.N.,Mikropoulos P.N.,Stassinopoulos C.A.,Rafailidis P.,Smaragdakis G. (Greece)

7-414 **Air Insulated Compact Substations**
Albano M.,Haddad A.,Griffiths H.,Coventry P. (UK)

7-324 **Insulator and Clearance Requirements in Overhead Line Transmission Systems without Shield Wires**
Soerensen T.K.,Holboell J. (Denmark)

7-138 **Lightning Performance of 275 kV Transmission Lines**
Bhattarai R.,Rashedin R.,Venkatesan S.,Haddad A.,Griffiths H.,Harid N. (UK)

7-462 **Very Fast Transient Overvoltages Generated by Gas Insulated Substation**
Pinches D.S.,Al-Tai M.A. (UK)

7-85 **Online Condition Monitoring of Partial Discharge in HV Underground Cables**
Ayub A.S.,Siew W.H.,Soraghan J.J. (UK)

7-5 **Investigation of Comparation on Porcelain and Epoxy Resin Insulator Conditions from a Coastal Area due to Various Parameters**
Waluyo,Pakpahan P.M.,Suwarno,Djauhari M.A. (Indonesia)

7-31 **Effective Protection Distance from Cascade Coordinated Surge Protective Devices to Equipment in Low-Voltage AC Power Circuits**
Škuletic S.,Radulović V. (Montenegro)

Session 3M7
Renewable Energy Systems & Smart Grids

Date:
Wednesday 3 Sept

Time:
11:15 – 13:00

Location:
Room AB/45

Chairman:
Dr. M. Redfern

5-272 **Fundamental Research Challenges for the Simulation and Modelling of Active Networks**
Broadfoot I.D.,Currie R.A.F.,Ault G.W.,McDonald J.R. (UK)

4-182 **Photovoltaic Laboratory for Study of Renewable Solar Energy**
Bică D.,Dumitru C. (Romania)

4-395 **The Impact of generation mix on the scheduling of power systems with high wind penetration**
Alhajali M.,Cregan M.,Flynn D.,Morrow D.J. (UK)

4-37 **Voltage and Current Based MPPT of Solar Arrays under Variable Insolation and Temperature Conditions.**
Masoum M.A.S.,Sarvi M. (Iran - Australia)

4-446 **Integration of tidal power based-electrical plant into a grid**
Salman S.K.,Gibb J.,Macdonald I. (UK)

4-298 **Fault Analysis in Integrated Wind Generation Networks**
Brenna M.,Esposito G.,Foiadelli F.,Roscia M. (Italy)

4-42 **Tidal Power in the United Kingdom**
Hammons T.J. (UK)

Session 3M8
Power Quality

Date:
Wednesday 3 Sept

Time:
11:15 – 13:00

Location:
Room AB/40

Chairman:
Prof. G. Taylor

6-312 **Improved Algorithm for On-line Harmonic Identification in HVDC application**
Najafi H.R.,Robinson F.,Shoulaei A. (Iran - UK)

6-199 **Algorithm Research and Application for Locating Power-Quality Event Source**
Weng G.,Zhang Y.,Wang J.,Hu Y. (China)

6-282 **Experimental Verification of Harmonic Load Models**
Balci M.E.,Ozturk D.,Karacasu O.,Hocaoglu M.H. (Turkey)

6-432 **Analysis of Black-Startup and Islanding Capabilities of a Combined Cycle Power Plant**
Borghetti A.,Bosetti M.,Nucci C.A.,Paolone M.,Ciappi G.,Solari A. (Italy)

6-273 **Optimal Harmonic Power Flow Using An Ant Colony System-Based Algorithm**
Ziari I.,Jalilian A. (Iran)

6-7 **Optimal Allocation of APLCs Using Genetic Algorithm**
Dehghani N.,Ziari I. (Iran)

6-185 **Design of an Electronic Board Against Short-Circuits in a Stabilized Voltage Feeder Based on Auto-Transformer**
Visconti P.,Gaetani R.,Cavalera G.,Verardi A.,Mele E. (Italy)

Session 4M1
Power System Operation and Control

Date:
Thursday 4 Sept

Time:
9:00 – 10:45

Location:
Room BC/60

Chairman:
Prof. M. Haddad

1-99 **A New Genetic Algorithm Method for Optimal Coordination of Overcurrent Relays in a Mixed Protection Scheme with Distance Relays**
Abyaneh H.A.,Kamangar S.S.H.,Razavi F.,Chabanloo R.M. (Iran)

1-307 **Coal Management Module (CMM) for Power Plant**
Sinha A.,Lahiri R.N.,Byabortta S.,Chowdhury S.,Chowdhury S.P.,Crossley P.A. (India - UK)

1-365 **Reliability Study of a Micr-Ggrid Power System**
Basu A.K.,Chowdhury S.P.,Chowdhury S.,Ray D.,Crossley P.A. (India - UK)

1-439 **Impact of Distributed Generation on Network Security: Effects on Loss-of-main Protection Reliability**
Bignucolo F.,Caldon R.,Frigo M.,Pitto A.,Silvestro F. (Italy)

1-168 **A MADM-Based Support System for DR Programs**
Aalami H.,Yousefi G.R.,Moghaddam M.P. (Iran)

1-180 **Selecting of SSSC Control Mode to Improve Transient and Small Signal Stability in Iran National Grid**
Sedighizadeh M.,Fatemi S.A.,Rezazadeh A.,Khatibi M. (Iran)

1-217 **A Study on AGC Scheme Based on Real Time Frequency Characteristics**
Park H.S.,Kim K.J. (Korea)

Session 4M2
Power System Simulation and Analysis

Date:
Thursday 4 Sept

Time:
9:00 – 10:45

Location:
Room AB/45

Chairman:
Prof. S. Quaia

2-118 **New Irish Single Electricity Market and its Initial Analysis**
Birch A.P.,Özveren C.S. (Scotland - UK)

2-369 **A Review of the Use of Genetic Algorithms in Economic Load Dispatch**
Warsono W.,Ozveren C.S.,King D.,Bradley D. (UK)

2-442 **Automated Recognition of Irregularities in Substation Load Profiles Due to Abnormal Feeding Arrangements**
Leaman J.H.,Nouri H.,Polycarpou A.,Der Linde F.V.,Ciric R.M. (UK - Serbia)

2-433 **Robust Distribution State Estimation for Active Networks**
Pilo F.,Pisano G.,Soma G.G. (Italy)

2-89 **Application (ANN) for Short-Term Load Forecasting**
Mahmoud H.M.,El-bebany E.H.,Othman E.S.A.E.A.,El-gazzar M.I. (Egypt)

2-70 **Distribution Load Flow Considering Committed Loads and their Growth in Electric Design Process**
Shateri H.,Amjadi A.A.,Ghorbani M.,Mohammad-Khani A.H. (Iran)

2-39 **Voltage Inversion due to Presence of TCSC on Adjacent Lines in Inter Phase Faults and Distance Relay Mal-Operation**
Jamali S.,Kazemi A.,Shateri H. (Iran)

Session 4M3
Electrical Machines and Drives

Date:
Thursday 4 Sept

Time:
9:00 – 10:45

Location:
Room AD/50

Chairman:
Dr. G.A. Putrus

9-2 **Effects of PWM Chopper Drive on the Torque-Speed Characteristic of a DC Motor**
Gelen A.,Ayasun S. (Turkey)

9-348 **Recreating the Mechanical Response of a Diesel Generator Set using a Variable Speed DC Drive**
Cooper A.R.,Morrow D.J.,McGowan D.J. (UK)

9-452 **Design of a Flux Weakening Control Scheme for DC Motor Drives Featuring Full Voltage Operation**
Bolognani S.,Faggion A.,Sgarbossa L. (Italy)

9-166 **Vector Control of Permanent Magnet Synchronous Motor with Surface Magnet Using Artificial Neural Networks**
Zare J. (Iran)

9-354 **Power Demand and Energy usage of Container Crane Comparison Between AC and DC Drives**
Tran T.,Nahavandi S.,Reid R. (Australia)

9-49 **FEM Couplig for Transient Perfomance Analysis of a Salient Poles Synchronous Generator**
Petkovska L.,Kolondzovski Z.,Cvetkovski G. (Macedonia - Finland)

9-139 **Induction Motor Protection Enhancement by Application of Smart Sensors**
Khederzadeh M.,Yadavar-Nikravesh S.M. (Iran)

Session 4M4
Distributed Generation

Date:
Thursday 4 Sept

Time:
9:00 – 10:45

Location:
Room AB/40

Chairman:
Dr. D. Micu

1-201 **Study on Model of Power Grid for Security Operation in Market Environment**
Zhang Y.,Chen W.,Zheng X.,Weng G.,Cao Y.J. (China)

3-356 **Study of Microturbine Models in Islanded and Grid-Connected Mode**
Saha A.K.,Chowdhury S.P.,Chowdhury S.,Crossley P.A. (India - UK)

2-69 **The Fast Estimation Method of Contingency Voltage Stability with Sensitivity Compensation**
Su S.,Tanaka K. (Japan)

3-259 **Power Factor control for Inverter-Interfaced Microgeneration**
Rafa A.H.,Anaya-Lara O.,McDonald J.R. (UK)

3-290 **The Contribution to Distribution Network Short-Circuit Current Level from the Connection of Distributed Generation**
Boljevic S.,Conlon M.F. (Ireland)

1-270 **Wavelet Transform Approach for Differential Protection of Three-Phase Transformer**
Oliveira M.O.,Salim R.H.,Bretas A.S. (Argentina - Brazil)

Session 4M5
Power Electronics and Devices & Power Conversion

Date:
Thursday 4 Sept

Time:
11:15 – 13:00

Location:
Room AD/50

Chairman:
Dr. J. Kearmey

11-54 **Three-Phase Passive Bridge Rectifier with Low Distortion Input Currents and Boosted DC Output Voltage**
Ahmed O.A.,Bleijs J.A.M. (UK)

11-82 **Calculation of Time-Varying Equivalent Inductance and Resistance of Helical Flux Compression Generators using 2-D Filamentary Method and Dynamic Matrix Concept**
Khanzade M.H.,Alinejad-Beromi Y.,Shoulaie A. (Iran)

11-345 **Comparisons of Structure Topologies for Hybrid Filters**
Man-Chung Wong,Chi-Seng Lam,Ning-Yi Dai (China)

10-52 **Hybrid Cascaded H-Bridge Multilevel Inverter for Fuel Cell Power Conditioning Systems**
Seyezhai R.,Mathur B.L. (India)

10-351 **Modeling and Simulation of Novel Low Cost Four Switch Three Phase IM Drive**
Kojabadi M.H.,Zarei M.,Bagheri M. (Iran)

10-265 **Control Scheme of A Novel Capacitive-Coupled STATCOM**
Chi-Seng Lam,Fan Ng,Man-Chung Wong (China)

10-347 **Investigation of A Novel Capacitive-Coupled STATCOM: Modeling and Simulation**
Chi-Seng Lam,Man-Chung Wong (China)

Session 4M6
Electric transportation and mobility applications

Date:
Thursday 4 Sept

Time:
11:15 – 13:00

Location:
Room AB/40

Chairman:
Dr. D. Flynn

12-288 **A Control Method of Charging and Discharging Lithium-Ion Battery to Prolong Its Lifetime in Power Compensator for DC Railway System**
Niwa T.,Nagaoka N.,Mori N.,Ametani A.,Umeda S. (Japan)

12-289 **Automatic Equivalent-Circuit Estimation System for Lithium-Ion Battery**
Hirai T.,Ohnishi A.,Nagaoka N.,Mori N.,Ametani A.,Umeda S. (Japan)

12-464 **All Electric Ship Power Stations: Dynamic Coordination between Controls and Protections**
Quaia S. (Italy)

12-409 **PM Motors for Hybrid Electric Vehicles**
Barcaro M.,Bianchi N.,Magnussen F. (Italy - Sweden)

12-299 **New Simulation Algorithm for Electric Transportation Supply System Sizing**
Brenna M.,Foiadelli F.,Zaninelli D.,Burchi G. (Italy)

12-333 **Reversed Diode Earthing Scheme in DC Traction Power System**
Alamuti M.M.,Zare A.,Savaghebi M. (Iran)

12-334 **Effects of Different Earthing Schemes on the Stray Current in Rail Transit Systems**
Jamali S.,Alamuti M.M.,Savaghebi M. (Iran)

Session 4M7
Renewable Energy Systems & Smart Grids

Date:
Thursday 4 Sept

Time:
11:15 – 13:00

Location:
Room AB/45

Chairman:
Prof. N. Shammas

4-78 **Fault Detection on Wind Generators**
Mesquita Brandão R.,Beleza Carvalho J.,Maciel Barbosa F. (Portugal)

4-425 **On the Relevance of Reliability Assessment for Wind Farm Performance Evaluation**
Di Fazio A.R.,Russo M. (Italy)

4-190 **Fault Ride-Through Capability Improvement of Wind Farms Using Doubly Fed Induction Generator**
Karimi-Davijani H.,Sheikholeslami A.,Livani H.,Norouzi N (Iran)

4-167 **Economical Balances within a Delegated Dispatch of Renewable Generations**
Castronuovo E.D.,Usaola J. (Spain)

4-410 **Energy Supplying of High Altitude Isolated Users**
Alberti L. (Italy)

4-63 **Optimization of Energy Parks with Biomass Plants and Water Desalination**
Buschert D.,Bitzer B. (Germany)

4-68 **Implementation of a Derivative Free Stability Optimization Algorithm**
Xin H.,Gan D.,Huang Z.,Zhuang K.,Cao L. (China)

Session 4M8
Power System Simulation and Analysis

Date:
Thursday 4 Sept

Time:
11:15 – 13:00

Location:
Room BC/60

Chairman:
Dr. F. Bignucolo

1-292 **Analysis of the National 8th November 2003 Libyan Blackout**
El-werfelli M.,Dunn R.,Redfern M.A.,Brooks J. (UK)

1-437 **Generator End Winding Vibration Monitoring**
Shally D.,Farrell M.,Sullivan K. (Ireland)

13-321 **Electrical Power System Security Analysis Using Problem-Based Learning**
Travassos Valdez M.M.,Faustino Agreira C.I.,Machado Ferreira C.,Maciel Barbosa F.P. (Portugal)

13-326 **Power Sector Reform in Indonesia What Should be Policy for the State Owned Power Company (PLN)**
Özveren C.S.,King D.,Mursitojati K. (UK)

3-450 **Probabilistic Approach to Determine Capacity Adequacy in Distribution networks with Wind Energy**
Pudaruth G.R.,Li F. (UK)

2-126 **Studying of Voltage Level Role in TNEP Considering the Losses for Years after Expansion Using GA with Different Trails**
Jalilzadeh S.,Kazemi A.,Mahdavi M.,Haddadian H. (Iran)

2-252 **The Use of Mixture of Generalized Gaussian for Trend Analysis of the Load Duration Curve: Summer and Winter Load Variability in Tunisia**
Mohamed O.M.M.,Jaidane-Saidane M.,Hizaoui N. (Tunisia)

Poster Session
POS1

Date:
Tuesday 2 Sept

Time:
9:00 – 11:00

Location:
Room AD/30

Chairman:
Prof. P. Caramia

1-53 **Simultaneous Optmization of Power System Stabilizer Parameters, Number and Locations via Genetic Algorithms**
Alkhatib H.,Duveau J.,Choucha A.,Hellal A.,Arif S. (France - Algeri)

1-144 **A Mixed Strategy Nash Equilibrium of Multi-Player Games with a Transmission Congestion Considering PTDF**
Jae-Hong Shin,Kwang-Ho Lee,Sang-Hoon Kim (Korea - USA)

2-256 **Dynamic Voltage Stability Assessment of an Electric Power Network using Composite Load Models**
Monteiro Pereira R.M.,Pereira A.J.C.,Machado Ferreira C.M.,Maciel Barbosa F.P (Portugal)

1-109 **Current Differential Protection based on Non-Conventional Instrument Transformer and IEC61850**
Liu K.,Dong X.Z.,Bo Z.Q. (China - UK)

1-370 **The Effect Research on Transformers and Protections Under HVDC Monopole Ground Operation Mode**
Yu Y.,Hao Z.G.,Zhang B.H.,Bo Z.Q. (China - UK)

1-98 **Research On Losses of Power Systems Affected By HVDC Control Strategy**
Liu C.,Bo Z.Q.,Klimek A. (China - UK)

1-360 **Application of Artificial Neural Network for Short Term Load Forecasting**
Amral N.,King D.,Özveren C.S. (UK)

6-309 **RSFCL Optimum Shunt Resistance Determination to Enhance Power System Transient Stability**
Hooshyar H.,Savaghebi M. (Iran)

7-411 **Comparing Denoising Performance of DWT, WPT, SWT and DT-CWT For Partial Discharge Signals**
Mortazavi S.H.,Shahrtash S.M. (Iran)

4-36 **A Neural Network Model for Ni-Cd Batteries**
Sarvi M.,Masoum M.A.S. (Iran - Australia)

7-102 **Using Artificial Neural Network to Estimate Maximum Overvoltage on Cables with Considering Forward and Backward Waves**
Shafiee M.,Vahidi B.,Hosseinian S.H.,Jazebi S. (Iran)

1-371 **Future Trends of Substation Automation System by applying Standard IEC 61850**
Vadiati M.,Abbas Ghorbani M.,Ebrahimi A.R.,Arshia M. (Iran)

8-16 **Analysis and Discussion on Lightning Disturbance on 110kV Transmission Line in Mountainous Area**
Jing Liangbing,Li Jinglu,Xu Genyang,Yan Xiping (China)

7-135 **Risk Evaluation and Creep in Conventional Conductors Caused by High Temperature Operation**
Massaro F.,Dusonchet L. (Italy)

9-3 **Power Density Comparison for Various Types of Double-Sided Axial Flux Slotted PM Motors**
Gholamian S.A.,Ardebili M.,Abbaszadeh K. (Iran)

9-388 **Rotor Flux Oriented Reference Frame Vector Model for a Brushless Doubly-Fed Machine Prototype**
Barati F.,Oraee H. (Iran - UK)

2-86 **A Study of the Energy Function Method for the Park Generator Model**
Abe Y.,Tanaka K. (Japan)

9-91 **Modeling of Heat Transfer in Disc-Type Power Transformer**
Taghikhani M.A.,Gholami A. (Iran)

Poster Session
POS2

Date:
Tuesday 2 Sept

Time:
14:30 – 16:30

Location:
Room AD/30

Chairman:
Dr. A. Di Fazio

2-429 **On the Economic Regulation of Voltage Quality**
Carpinelli G.,Caramia P.,Varilone P.,Verde P. (Italy)

5-61 **Distributed Multi-Generation and Application of the Energy Hub concept in Future Networks**
Carradore L.,Bignucolo F. (Italy)

1-140 **A Novel Detection Criterion for Transformer Inrush Based on Short-Window Filter Algorithm**
Han Z.,Liu S.,Gao S.,Bo Z.Q. (China - UK)

1-301 **Power System Islanding Based on Multilevel Reduced Graph Partitioning Algorithm**
Wang C.G.,Zhang B.H.,Li P.,Shu J.,Cheng L.Y.,Hao Z.G.,Bo Z.Q. (China - UK)

2-123 **Modelling Study for High Impedance Fault Detection in MV Distribution System**
Cui T.,Dong X.Z.,Bo Z.Q.,Klimek A.,Edwards A. (China - UK)

2-322 **A Novel Algorithm for Power Fault Diagnosis based on Wavelet Entropy and D-S Evidence Theory**
Fu L.,He Z.Y.,Bo Z.Q. (UK)

13-183 **Power Engineering Education Using Neplan Software**
Bică D.,Maldovan C.,Muji M. (Romania)

4-368 **Analysis of the Wind Power Output of a Portuguese Wind Farm**
Almeida J.,Marciel Barbosa F.P. (Portugal)

7-141 **Determination of Lightning Flashovers & Backflashover Voltage levels on 230kV Transmission Lines**
Shwehdi M.H.,Al-Garni S.,Al-Subai S. (Arabia)

1-20 **An Architecture of Spatial Three Dimension Visualization Information Platform for Urban Power Grid**
Yecai S.,Chuanbai Z.,Cao Y.J.,Chuangxin G. (China)

1-294 **An Optimized Defence Plan for a Power System**
El-werfelli M.,Brooks J.,Dunn R. (UK)

8-454 **Internal Overvoltages on Cast Resin Transformer Windings in Presence of Resonance Effects**
Ceretta C.,Gobbo R.,Pesavento G. (Italy)

2-56 **DCGA-Base Evaluation of Inflation Rate Effect on the Network Loss in Transmission Expansion Planning**
Kazemi A.,Jalilzadeh S.,Mahdavi M.,Haddadian H. (Iran)

1-136 **Transformer Hot Spot Temperature Calculation Enhancement by On-Line Gas Monitoring System**
Khederzadeh M. (Iran)

9-173 **Identification of Generator Parameters from SSFR Test for Montazer-Qaem Power Plant**
Zafarabadi G.,Boroujeni E.A. (Iran)

11-154 **New Programmable Calibration System for Highly Accurate AC Current Measurements at Nis, Egypt**
Ahmed A.H.,Halawa M.,Moussa S.M.,Shehab-Eldin E.H.,El-Refaee E.M. (Egypt)

1-330 **A New Approach for Profit-Based UC using Lagrangian Relaxation Combined with Ant Colony Search Algorithm**
Bavafa M.,Monsef H. (Iran)

Poster Session
POS3

Date:
Wednesday 3 Sept

Time:
9:00 – 11:00

Location:
Room AD/30

Chairman:
Dr. C. Di Perna

2-401 **Application of Monte Carlo Technique to Evaluate the Power Injectable on Electrical Grid by Wind Farms**
Ippolito M.G.,Massaro F.,Mustacciolo M. (Italy)

6-427 **Dispersed Generators Providing Ancillary Services through Power Electronic Interfaces: a Hybrid System**
Bracale A.,Di Perna C.,Mangoni M.,Proto D. (Italy)

1-407 **A Wavelet based Pilot Protection Scheme for Series Compensated Line in Parallel with Another Line**
Beris S.S.,Shahrtash S.M. (Iran)

2-386 **Developments in Digital Simulation of Traction Transformer**
Li M.X.,He J.,Yu L.,Bo Z.Q.,Klimek A. (China - UK)

2-171 **A Novel Dynamic Frequency Estimate Algorithm in Power System**
Mai R.,He Z.Y.,Bo Z.Q.,Kirby B. (China)

2-214 **The study of ground distance protection of 500kV quadruple-circuit transmission lines On the same tower**
Sun S.,Tai N.,Bo Z.Q. (China - UK)

1-343 **A Fuzzy-Based Approach for Transformer Dynamic Loading Capability Assessment**
Savaghebi M.,Gholami A.,Vahedi A.,Hooshyar H. (Iran)

8-19 **Research on Ground Potential Interference of Substation**
Na He,Guoxi Zhao,Jinglu Li (China)

1-145 **Analysis of Power Transaction by Solving Nash Equilibrium in Electricity Markets with Financial Transmission Rights**
Jae-Hong Shin,Sang-Hoon Kim,Kwang-Ho Lee (Korea - USA)

11-245 **A New PID-Fuzzy Controller for DC/DC Converters**
Sarvi M.,NamazyPour N. (Iran)

8-262 **Multi-Agent Based Voltage Control of STATCOMs to Enhance Elimination of Voltage Disturbances in Power System Contingencies**
Tousi M.R.,Hosseinian S.H.,Jadidinejad A.H.,Menhaj M.B. (Iran)

1-383 **Improvement of Load Bus Voltages Considering the Optimal Dispatch of Active and Reactive Powers**
Tarafdar Hagh M.,Sadigh Manesh A.,Hesamzadeh M.R. (Australia - Iran)

9-342 **Speed Control of a Doubly-Fed Induction Motor Fed By Matrix Converter**
Elahi A.,Khaburi D.A. (Iran)

1-317 **Flux Compensation Method Mitigation of Inrush Current in Transformers Due to Voltage Swell**
Balachandran D.P.,Sreerama K.R. (India)

8-77 **Calculation and Measuring of Low-frequency Electric Field Distribution of 10(20)/0,4 kV, 630 kVA Transformer Station**
Salkić H.,Madžarević V.,Hukić E. (Bosnia and Herzegovina)

1-396 **Load Profiling for the Romanian Electricity Market**
Dumbrava V.,Bazacliu G.,Nicoara B.,Lazaroiu C.,Zaninelli D. (Romania - Italy)

5-132 **Reliability Assessment of an Advanced Intelligent Automated Distribution System**
Jahangiri P.,Fotuhi–Firuzabad M.,Kazemi S. (Iran)

1-382 **Design and Study of a Switch Reactor for Central Queensland SWER system**
Hesamzadeh M.R.,Hosseinzadeh N.,Wolfs P.J. (Australia)

Poster Session
POS4

Date:
Thursday 4 Sept

Time:
9:00 – 11:00

Location:
Room AD/30

Chairman:
Dr F. Moro

10-124 **Virtual Flux-Direct Power Control Applied to a VSC-HVDC System**
Abiri E.,Rahmati A.,Abrishamifar A. (Iran)

2-260 **Evaluation of Protective Devices on a Three-phase Transient Stability Program**
Mahmoodan M.,Kouhsari S.M.,Ghanavati G.,Naghizadeh R.A. (Iran)

8-264 **Influence of Horizontal Lightning Leader on Lightning Rod Shielding**
Nayel M. (Egypt)

4-384 **Transient Analysis of Induction Generator Jointed to Network at Balanced and Unbalanced Short Circuit Faults**
Dashti R.,Ranjbar B.,Mallahzadeh A. (Iran)

10-353 **State-Feedback Current Control of VSC-Based D-STATCOM for Load Balancing and Reactive Power Compensation**
Jafarian P.,Bina M.T. (Iran)

2-150 **A Novel Three Phase Load Flow Algorithm Based on Symmetrical Components for Distribution Systems**
Kang X.,Suonan J.,Song G.,Fu W.,Bo Z.Q. (China)

1-438 **Market Power in Voltage and Reactive Power Market**
Atighechi H.,Jadid S.,Shoulaie A. (Iran)

10-84 **Modelling and Simulation Of Variable-Frequency-Fed Induction Motors**
A - A - M -Shaban (Libya)

9-26 **On Line Synchronous Generator Parameters Estimation Based on Applying Small Disturbance on Excitation System Using ANN**
Rahimpour M.,Talebi M.A.,Shayanfar H.A.,Azad Hosseini M.R. (Iran)

6-125 **Active Filtering Function of Three-Phase Converter Under Nonsinusoidal and Unbalanced Voltage Conditions**
Abiri E. (Iran)

1-378 **Damping Deviations in HVAC/HVDC Power System by a New Adaptive Controller**
Torki M.H.,Poudeh M.B.,Eshtehardiha S. (Iran)

9-119 **Direct Torque Control of Induction Machine Fed by a Three Levels Inverter with Speed Control Using an Artificial Neural Network**
Lamchich M.T.,Ouboubker L. (Marocco)

9-174 **Investigation of Effect of Stator Resistance on Accuracy of Generator Parameters Identification with SSFR Method**
Zafarabadi G.,Boroujeni E.A. (Iran)

9-231 **Multiobjective Optimization for Optimal Power Flow Considering Valve Loading Effects**
Azadani E.N.,Moradzaheh B.,Abedi M.,Hosseinian S.H. (Iran)

4-76 **Geothermal Sustainability in Europe and Worldwide**
Hammons T.J.,Gunnarsson A. (UK)