

## Selected Paper Sessions (SPS)

June 11, 2012 Monday, 11:30 - 12:30			
<b>Selected Paper Session 1</b>			Monday June 11, 11:30 - 12:30
<b>Chair</b>		<b>Ömer Usta, Istanbul Technical University, Turkey</b>	<b>Room : 109</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>
SPS 1.1	28	Fault Trees Applied to Protection System Reliability Analysis	George Anders, Robert W. Beresh, Alvaro Torres
SPS 1.2	77	Transmission Expansion Planning Including Unreliability Costs	Luiz Antônio Manso, Paulo Eduardo Abreu, Leonidas Resende, Armando Leite da Silva
SPS 1.3	57	Reliability Evaluation of the 2-out-of-3 Voting Gates Structure in a Generation Rejection Scheme Using Markov Models	Kai Jiang, Chanan Singh

June 11, 2012 Monday, 11:30 - 12:30			
<b>Selected Paper Session 2</b>			Monday June 11, 11:30 - 12:30
<b>Chair</b>		<b>Aydogan Ozdemir, Istanbul technical University, Turkey</b>	<b>Room : 127</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>
SPS 2.1	95	Probabilistic Benefit/Cost Analysis in Transmission System Planning	Wenyuan Li, Roy Billinton, Wijarn Wangdee
SPS 2.2	176	Probabilistic ramp detection and forecasting for wind power prediction	Carlos Ferreira, João Gama, Vladimiro Miranda, Audun Botterud
SPS 2.3	56	Stochastic Modeling of Multi-Area Wind Power Production	Anthony Papavasiliou, Shmuel Oren

## Technical Sessions (TS) (M1, M2, M3 & M4)

June 11, 2012 Monday, 14:00 - 15:30			
<b>Session 1 Reliability Analysis-I</b>			Monday June 11, 14:00 -15:30
<b>Chair</b>		<b>Roy Billinton, University of Saskatchewan, Canada</b>	<b>Room : 109</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>
TS M1.1	39	Latin Hypercube Sampling for the Probabilistic Evaluation of Composite Power System Reliability	Robert Green II, Lingfeng Wang, Mansoor Alam, Chanan Singh
TS M1.2	40	A Probabilistic Second Supply Source Model to Enhancing Service Reliability of a Major Distribution Load	Ali Chowdhury
TS M1.3	65	Comparison of Wake Models for Reliability Analysis	Hagkwen Kim, Alex Sprintson, Chanan Singh
TS M1.4	79	Comparison between Different Cross-Entropy Based Methods Applied to Generating Capacity Reliability	Reinaldo Gonzalez-Fernandez, Armando Leite da Silva
TS M1.5	302	Reliability- and cost-centered optimization of maintenance- probabilistic strategies	George J. Anders, Henryk Maciejewski, Jaroslaw Sugier, John Endrenyi

<b>Session 2</b>		<b>Risk Analysis-I</b>		Monday June 11, 14:00 -15:30
<b>Chair</b>		<b>Ramazan Caglar, Istanbul Technical University, Turkey</b>		<b>Room : 107</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS M2.1	131	Simulation approaches in cascading risk assessment	Emanuele Ciapessoni, Diego Cirio, Andrea Pitto, Stefano Massucco, Federico Silvestro	
TS M2.2	80	Risks, Load Shedding and System Separation during Emergency Situations	Antans Sauhats, Vladimir Chuvychin, Diana Zalostiba, Eduard Antonov, Vadims Strelkovs	
TS M2.3	248	Risk-Based Evaluation of Different Layouts for Supplying Power to Plant Auxiliaries in a Combined Cycle Power Plant	Mirko Palazzo, Ali Akhavein, Slawomir Wola	
TS M2.4	264	Designing A Financially Efficient Risk-Oriented Model for Maintenance Planning of Distribution Systems: A Practical Perspective	Leila Jalili, Masoud Sadeghi, Mahmud Fotuhi, Peyman Dehghaniyan, A. Rajabi-Ghahnavieh	
TS M2.5	204	Risk-Based Demand Response Scheduling for Optimal Spinning Reserve Provision	Mohsen Yazdaninejad, Mahmoud-Reza Haghifam	

<b>Session 3</b>		<b>Energy Markets-I</b>		Monday June 11, 14:00 -15:30
<b>Chair</b>		<b>Fred Turner, PMAPS International Society, Canada</b>		<b>Room : 127</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS M3.1	100	A Probabilistic Method for Electricity Market Evaluation Considering High Risk Events with Low Probability	Yusheng Xue, Jie Huang, Zhao Yang Dong	
TS M3.2	119	Augmented Lagrange Hopfield Network for Combined Economic and Emission Dispatch with Fuel Constraint	Dieu Vo Ngoc, Weerakorn Ongsakul, Peter Schegner	
TS M3.3	127	Probabilistic Method for Wind Production Forecasting and Energy Markets Trades Optimization in Power System with Large Wind Specific Gravity	Mario Turcik, Irina Oleinikova, Artjom Obushev, Michal Kolcun	
TS M3.4	101	GenCo's Bidding Strategy with Risk Consideration using Self-organizing Hierarchical PSO	Chanwit Boonchuay, Weerakorn Ongsakul	
TS M3.5	70	Bidding Strategy for Wind Generators Considering Uncertainties in the Wind Velocity and Market Price	Songbo Qiao, Shrestha Govinda	

<b>Session 4</b>		<b>Monte Carlo-I</b>		Monday June 11, 14:00 -15:30
<b>Chair</b>		<b>Jaeseok Choi, Gyeongsang National University, Korea</b>		<b>Room : 215</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS M4.1	82	Representation of Wind and Load Correlation in Non-Sequential Monte Carlo Reliability Evaluation	Julio Dias, Carmen Borges	
TS M4.2	139	A method for sizing DG onto the buses of a Medium Voltage Distribution Network by Monte Carlo Simulation	Enrico Zio, Maurizio Delfanti, Livio Giorgi, Valeria Olivieri, Giovanni Sansavini	
TS M4.3	216	Reliability Evaluation of Generation Systems via Sequential Population-Based Monte Carlo Simulation	Leonel Carvalho, Diego Issicaba, Mauro Rosa, Joel Ramos, Vladimiro Miranda	
TS M4.4	217	Monte Carlo Simulation of Community Wind Generation in Rural Western Kansas	Todd Halling, Anil Pahwa	
TS M4.5	27	A Comparative Study of State Selection Techniques in Voltage Stability Probabilistic Assessment of Composite Systems	Anselmo Rodrigues, Ricardo Prada, Maria da Guia da Silva	

### Technical Sessions (M5, M6, M7 & M8)

<b>June 11, 2012 Monday, 16:00 - 17:30</b>				
<b>Session 5</b>		<b>Reliability Analysis-II</b>		Monday June 11, 16:00 -17:30
<b>Chair</b>		<b>Mahmut Fatuhi-Firuzabad, Sharif University of Technology, Iran</b>		<b>Room : 109</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS M5.1	21	Adequacy Impacts of Wind and Hydro Coordinated Operation in Power Systems	Rajesh Karki, Po Hu, Roy Billinton	
TS M5.2	60	Applying a Probabilistic Approach to Transmission Network Reliability Assessment	Milton Edimu, Ronald Herman, Charles Trevor Gaunt	
TS M5.3	87	Reliability Analysis of Alternate Wind Energy Farms and Interconnections	Dongbo Zhao, A. P. Sakis Meliopoulos, George J. Cokkinides, Ramazan Caglar	
TS M5.4	73	Customer interruption costs (CICs) for composite power system reliability analysis	Oliver Dzobo, C.T Gaunt, R. Herman	
TS M5.5	218	Evaluating the Impact of Wind Power Uncertainty on Power System Adequacy	Esteban Gil	

<b>Session 6</b>		<b>Condition Monitoring-I</b>		Monday June 11, 16:00 -17:30
<b>Chair</b>		<b>Vladimiro Miranda, INESC Porto, Portugal</b>		<b>Room : 107</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS M6.1	103	Condition Monitoring Benefit for Offshore Wind Turbines	Sebastian Thöns, David McMillan	
TS M6.2	117	On Improvements of Power Transformer Condition Monitoring by Considering Thermal Models	Johanna Rosenlind, Patrik Hilber	
TS M6.3	83	Blackout PRA based identification of critical initial conditions and contingencies	Pierre Henneaux, Pierre-Etienne Labeau, Jean-Claude Maun	
TS M6.4	128	Time Based Maintenance Optimization of Medium Voltage Network Components using LCC Analysis	Jochen Bühler, Gerd Balzer	
TS M6.5	225	Availability of power plant supply during major failures in the 380 kV transmission system	Marco Fleckenstein, Gerd Balzer	
TS M6.6	278	Determining of the Optimum Routine Test Interval for a Set of Protective Relays	Mohammad Hadi Zare, Ali-Reza Sedighi, Ahmad Mirzaei	

<b>Session 7</b>		<b>Power Flow-I</b>		Monday June 11, 16:00 -17:30
<b>Chair</b>		<b>Anil Pahwa, Kansas State University, USA</b>		<b>Room : 127</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS M7.1	137	Probabilistic Power Flow Simulation allowing Temporary Current Overloading	Wander Wadman, Gabriël Bloemhof, Daan Crommelin, Jason Frank	
TS M7.2	149	Three Phase Probabilistic Load Flow in Radial Distribution Networks	Alexander Melhorn, Aleksandar Dimitrovski, Kevin Tomsovic	
TS M7.3	182	Application of the Artificial Bee Colony algorithm to the Optimal Power Flow with incorporation of FACTS devices	Linda Slimani, Tarek Bouktir	
TS M7.4	236	Probabilistic Load Flow Considering Correlation For Power Systems with Wind Generation	Oluwabukola Oke, David W.P Thomas	
TS M7.5	74	Optimal Distributed Generation Placement in Radial Distribution Systems	Ali Arefi, Mohammad Reza Andervazh, Akbar Yavartalab, Javad Olamaei	

<b>Session 8</b>		<b>Smart Grid-I</b>		Monday June 11, 16:00 -17:30
<b>Chair</b>		<b>Syed Islam, Curtin University, Australia</b>		<b>Room : 215</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS M8.1	267	Advanced Load Management Effects on Smart Grid Reliability: The need for new reliability indices	Amir Moshari, Akbar Ebrahimi	
TS M8.2	120	A Novel Control Scheme of DGs Considering Operation Uncertainties in a Microgrid with Renewable Energies	Hong-Tzer Yang, Jian-Tang Liao, Kai-Chung Chu	
TS M8.3	59	Security of Supply in Active Distribution Networks with PHEV Based Strategic Micro-Grids	Dilan Jayaweera, Syed Islam	
TS M8.4	273	Probabilistic Home Load Controlling Considering Plug-in Hybrid Electric Vehicle Uncertainties	Mohammad Rastegar, Amir Safdarian, Mahmud Fotuhi-Firuzabad, Farrokh Aminifar	
TS M8.5	284	Applying Fuzzy Techniques to Model Customer Comfort in a Smart Home Control System	Mahmoud-reza Haghifam, Amin Mohsenzadeh, mohammad hosein Shariatkha	

### Technical Sessions (T9, T10, T11 & T12)

<b>June 12, 2012 Tuesday, 09:00 - 10:30</b>				
<b>Session 9</b>		<b>Smart Grid-II</b>		Tuesday June 12, 09:00 -10:30
<b>Chair</b>		<b>Akihiko Yokoyama, The University of Tokyo, Japan</b>		<b>Room : 109</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS T9.1	62	Smart charging of plug-in vehicles under driving behaviour uncertainty	Marina González Vayá, Göran Andersson	
TS T9.2	135	Challenges in Smart Grid Reliability Studies	Vijay Venu Vadlamudi, Rajesh Karki, Gerd Kjolle, Kjell Sand	
TS T9.3	6	DG Planning by Optimizing Distribution System Techno-commercial Attributes	Sreekanth S, Nilanjan Senroy, Abhijit Abhyankar	
TS T9.4	212	Multivariate Stochastic Modeling of Plug-in Electric Vehicles Demand Profile within Domestic Grid	Ehsan Pashajavid, Masoud Aliakbar Golkar	
TS T9.5	190	A Novel Fuzzy-Logic-Control for a Z-Source Inverter as a Transformer-Less Grid-Connected Photovoltaic Power Conditioner	Javad Olamaei, Atefeh Bahmanabadi, Karim Abbaszadeh	

<b>Session 10</b>		<b>Monte Carlo-II</b>		Tuesday June 12, 09:00 -10:30	
<b>Chair</b>		<b>Lalil Goel, Nanyang Technological University, Singapore</b>		<b>Room : 107</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS T10.1	237	Stochastic Assessment of the EVs Potential for up and down-Regulation Services: Impacts of Charging Infrastructure Scenarios	Alicja Lojowska, Dorota Kurowicka, Georgios Papaefthymiou, Lou van der Sluis		
TS T10.2	251	Operating Reserve Assessment Incorporating a Stochastic Electric Vehicle Model	Leonardo Bremermann, Mauro Rosa, Manuel Matos, João Abel Peças Lopes, Jean Sumaili		
TS T10.3	260	Comparison of cost models for estimating customer interruption costs	Karin Alvehag, Lennart Söder		
TS T10.4	41	A Multi-Area Approach for Evaluating the Impacts of HVdc Transmission System Forced Unavailability on Power System Resource Adequacy	Bagen Bagen, Dange Huang		
TS T10.5	266	Assessing the Investments in Customer-Driven Distributed Generation Under Uncertainty	Cedomir Zeljkovic, Nikola Rajakovic		

<b>Session 11</b>		<b>Power Flow-II</b>		Tuesday June 12, 09:00 -10:30	
<b>Chair</b>		<b>Marko Cepin, University of Ljubljana, Slovenia</b>		<b>Room : 127</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS T11.1	175	A Probabilistic Approach for Multiobjective Optimal Allocation of Voltage Regulators and Capacitors in Three-Phase Unbalanced Distribution Systems. Part I: Theoretical aspects	Guido Carpinelli, Christian Noce, Angela Russo, Pietro Varilone		
TS T11.2	174	A Probabilistic Approach for Multiobjective Optimal Allocation of Voltage Regulators and Capacitors in Three-Phase Unbalanced Distribution Systems. Part II: Numerical Applications	Guido Carpinelli, Christian Noce, Angela Russo, Pietro Varilone		
TS T11.3	262	A Probabilistic Approach for Optimal Capacitor Placement in Unbalanced Distribution Systems Using NSGA_II	Mehrdad Tarafdar Hagh, Murtaza Farsadi, Sadjad Galvani		
TS T11.4	63	Weighted and Constrained Consensus for Distributed Power Flow Control	Le Yi Wang, Caisheng Wang, George Yin, Yang Wang		
TS T11.5	15	Multi-Criteria Design of a Hybrid Power System with Stochastic Supply	Ahmed Saif, Hatem Zeineldin, Scott Kennedy, James Kirtley		

<b>Session 12</b>		<b>Reliability Analysis-III</b>		Tuesday June 12, 09:00 -10:30	
<b>Chair</b>		<b>John Endrenyi, Toronto, Canada</b>		<b>Room : 215</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS T12.1	12	Averaging Operating States with Infinite Mixtures in Reliability Analysis of Transmission Networks	Håkon Kile, Kjetil Uhlen		
TS T12.2	282	Issues of virtual power plants on the reliability	Sebastian Stepanescu, Marc Osthues, Christian Rehtanz		
TS T12.3	286	Idaho Power's Experience in the Collection of Transmission Lines Unavailability Data	Milorad Papic, Perry Van Patten, Thomas Menten, Linda Thomas, Aydogan Ozdemir		
TS T12.4	36	Construction and Evaluation of RCAM Model for Power Transformers in Turkish National Power Transmission System	Aydogan Ozdemir, H.Aysun Koksall		
TS T12.5	192	Reliability Assessment of Double Price Cap Electricity Market: Collective Contribution of Non-Pivotal Firms to Capacity Withholding	Seyed Saeid Mohtavipour, Mahmoud-Reza Haghifam, Fallahi		

### Technical Sessions (T13, T14, T15 & T16)

June 12, 2012 Tuesday, 11:00 - 12:30					
<b>Session 13</b>		<b>Renewable-I</b>		Tuesday June 12, 11:00 - 12:30	
<b>Chair</b>		<b>Diana Zalostiba, Riga Technical University, Latvia</b>		<b>Room : 109</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS T13.1	146	Determining Capacity Credit for Wind used in MISO Resource Adequacy	Brandon Heath, Charles Tyson, John Lawhorn		
TS T13.2	50	Influence of Different Wind Turbine Types Failures on Expected Energy Production	Danijel Topić, Damir Šljivac, Dražen Mandžukić		
TS T13.3	44	Hybrid Enumeration and Conditional Probability Approach for Reliability Analysis of Power Systems with Renewable Energy Sources	Bordin Bordeerath, Panida Jirutitijaroen		
TS T13.4	173	Optimal Operation Scheduling of Pumped Storage Hydro Power Plant in a Power System with a Large Penetration of Photovoltaic Generation Considering both Reliability and Fuel Cost	Ryota Aihara, Akihiko Yokoyama, Fumitoshi Nomiyama, Hidemi Kihara		
TS T13.5	177	Reserve optimization to improve operational reliability in deregulated power system with PV power penetration	QIAN ZHAO, Peng Wang, Lalit Goel, Yi Ding		

<b>Session 14</b>		<b>Power Quality-I</b>		Tuesday June 12, 11:00 - 12:30
<b>Chair</b>		<b>Sakis Meliopoulos, Georgia Institute of Technology, USA</b>		<b>Room : 107</b>
<b>Session</b>	<b>Paper ID</b>	<b>Title</b>	<b>Author(s)</b>	
TS T14.1	270	Characterization of public low voltage grids by clustering time series of power quality parameters	Max Domagk, Jan Meyer, Peter Schegner	
TS T14.2	10	Studies on Voltage Drops Caused by Intermittent Loads Using Gram-Charlier Series Expansion	Ying-Yi Hong, Jun-Jie Wang	
TS T14.3	259	Prediction of Voltage Sags Applying the Method of Critical Distances to Meshed Power Networks	Marios Moschakis, Spyros Loutridis, Vasilis Dafopoulos, Anestis Anastasiadis, Thomai Tomtsi, Emmanuel Karapidakis, Antonis Tsikalakis	
TS T14.4	315	A Study on Hierarchic Voltage Profile Control in High and Low Voltage Distribution System	Takao Tsuji, Yu Furudate, Tsutomu Oyama, Takuhei Hashiguchi, Tadahiro Goda	

<b>Session 15</b>		<b>Energy Storage-I</b>		Tuesday June 12, 11:00 - 12:30
<b>Chair</b>		<b>Damir Šljivac, University of Osijek, Croatia</b>		<b>Room : 127</b>
<b>Session</b>	<b>Paper ID</b>	<b>Title</b>	<b>Author(s)</b>	
TS T15.1	166	A New Energy Storage Sizing Technique Considering Ramp Rates of Conventional Generators	Zhiyong Gao, Peng Wang	
TS T15.2	121	Probabilistic Estimation of Systemwide Electric Vehicle Charging Demand	Nima Tehrani, Shrestha Govinda, Wang Peng	
TS T15.3	126	Quantifying Spinning Reserve for Uniform System Reliability Considering Wind Power	Guodong Liu, Kevin Tomsovic	
TS T15.4	132	Design of a Load Management System for Electric Vehicles Based on a Stochastic Model	Johannes Rolink, Christian Rehtanz	
TS T15.5	142	Metaheuristic Optimization of Electric Vehicle Charging Strategies in Uncertain Environment	Stephan Hutterer, Franz Auinger, Michael Affenzeller	

<b>Session 16</b>		<b>Others-1</b>		Tuesday June 12, 11:00 - 12:30	
<b>Chair</b>		<b>Jovica Milanovic, The University of Manchester, UK</b>		<b>Room : 215</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS T16.1	151	Web Based Online Real-time Outage Cost Assessment Information System of Power System	JinTaek Lim, TaeGon Oh, KyeongHee Cho, JaeSeok Choi, TaeHo Song, Jaegul Lee		
TS T16.2	258	SecurMining 2.0: A Data Mining Software Package for Security Analysis In the Portuguese Transmission System	Cristina Agreira, Rui Pestana, Carlos Ferreira, Fernando Barbosa		
TS T16.3	107	Short-Term Load Forecasting Without Weather Data: A Comparison Study	İdil Işıklı, Tolga Yüksel, Mehmet Kurban		
TS T16.4	231	Study of transient over voltages in distribution networks with using composite cross-arms	Mohamad Ali Amini, Alireza Sedighi Anaraki, Mohsen Mashhadi Bafan		

### Technical Sessions (T17, T18, T19 & T20)

June 12, 2012 Tuesday, 14:00 - 15:30					
<b>Session 17</b>		<b>Reliability Analysis-IV</b>		Tuesday June 12, 14:00 -15:30	
<b>Chair</b>		<b>Chanan Singh, Texas A&amp;M University, USA</b>		<b>Room : 109</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS T17.1	275	A Heuristic Approach for Transmission System Reliability Assessment in Large Power Networks	Farrokh Aminifar, Mahmud Fotuhi-Firuzabad, Amir Safdarian		
TS T17.2	29	Assessment of Spare Breaker Requirements for High Voltage Load Stations	Gomaa Hamoud, Sherif Faried		
TS T17.3	313	A Realistic Method for Remaining Service Life Prediction of Power Transformer	Yunus BICEN, Faruk ARAS, Hasbi ISMAILOGLU		
TS T17.4	230	Reliability Evaluation of Wind Farm with Battery Bank	Wook-won Kim, Jin-O Kim, Je-Seok Shin		
TS T17.5	11	Probabilistic Generation Expansion Planning using Z-Method	Jamshid Aghaei, Alireza Roosta, Mohammad-Amin Akbari, Mohsen Gitizadeh		

<b>Session 18</b>		<b>Operation-I</b>		Tuesday June 12, 14:00 -15:30
<b>Chair</b>		<b>George Anders, Technical University of Lodz, Poland</b>		<b>Room : 107</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS T18.1	170	A Hybrid PSO and GA for Generation Allocation Problem Optimization	Mimoun Younes, Benhamida Farid	
TS T18.2	246	Gbest Guided Artificial Bee Colony Algorithm for Economic Load Dispatch Incorporating Wind Power	H.T Jadhav, Utkarsh Sharma, Jay Patel, Ranjit Roy	
TS T18.3	195	Optimal Flexible Solutions of Transfer Capability Assessment	Muhammad Murtadha Othman, Nurulazmi Abd. Rahman, Ismail Musirin	
TS T18.4	75	Fault Management at a Distribution System Operator	Carl Johan Wallnerström, Sabina Stenberg, Patrik Hilber	
TS T18.5	47	The Effects of Uncertainty in Mechanical Parameters on SSR in Meshed Power Networks with Different HVDC Technologies	Atia Adrees, Jovica Milanovic	

<b>Session 19</b>		<b>Smart Grid-III</b>		Tuesday June 12, 14:00 -15:30
<b>Chair</b>		<b>Hugo A.Gil, University of Seville, Spain</b>		<b>Room : 127</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS T19.1	226	Forecasting Spatial Average Insolation in Electric Utility Service Area based on Multi-Regional Weather Forecast	Takeyoshi Kato, Kouki Suzuki, Yasuo Suzuoki	
TS T19.2	261	Operational Characteristics of MicroGrids with Electric Vehicles	Clara Gouveia, Paulo Ribeiro, Carlos Moreira, João Peças Lopes	
TS T19.3	254	Improved methods for modelling asset aging to predict the quality of tomorrow power grids	Jan Christoph Kahlen, Mirnes Planic, Markus Brandl, Uwe Zickler	
TS T19.4	91	Optimized Adaptive Protection for Distribution Systems Penetrated with Distributed Generation	Mohamad Sulaiman, Ahmed Osman, Mohamed Hassan	

<b>Session 20</b>		<b>Uncertainty-I</b>		Tuesday June 12, 14:00 -15:30
<b>Chair</b>		<b>Chris Dent, Durham University, UK</b>		<b>Room : 215</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS T20.1	52	Capacity Value of Additional Generation: Probability Theory and Sampling Uncertainty	Chris Dent, Stan Zachary	
TS T20.2	64	Offering Strategies for a Wind Power Producer considering Uncertainty through a Stochastic Model	H.M.I. Pousinho, V.M.F Mendes, J.P.S. Catalão	
TS T20.3	93	Examining Information Entropy Approaches as Wind Power Forecasting Performance Metrics	Bri-Mathias Hodge, Kirsten Orwig, Michael Milligan	
TS T20.4	300	Stochastic OPF for the identification of weak network points under scenarios of wind locational uncertainty	Georgios Papaefthymiou, Zongyu Liu, Lou van der Sluis	
TS T20.5	43	Strategic investments and regulatory framework for distribution system planning under uncertainty	Marc Osthues, Gerardo Blanco, Christian Rehtanz	

### Technical Sessions (T21, T22, T23 & T24)

<b>June 12, 2012 Tuesday, 16:00 - 17:30</b>				
<b>Session 21</b>		<b>Operation-II</b>		Tuesday June 12, 16:00 -17:30
<b>Chair</b>		<b>Mladen Kezunovic, Texas A&amp;M Universty, USA</b>		<b>Room : 109</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS T21.1	256	A Large Scale Stochastic Model for the solution of Medium Term Unit Commitment Problem in Power Systems with high RES Penetration	Dario Siface, Maria Teresa Vespucci, Alberto Gelmini	
TS T21.2	130	Advanced Fault Location Algorithm and Impact on Optimized Repair Crew Dispatch	Yimai Dong, Mladen Kezunovic	
TS T21.3	245	A Probabilistic Farmework for Power System Operation Studies in Presence of Dispersed PV Generation	Amir Saman Arabali, Moein Moeini-Aghtaie, Payman Dehghanian, Mahmud Ghofrani, Ali Abbaspour	
TS T21.4	38	Adaptive Reclosing Strategy Based on Estimation of Distributed Generation Penetration Level	Hossam Talaat, Essam Al-Ammar	
TS T21.5	223	Imperialist Competitive Algorithm for Optimal Design of the PID Controller for an AVR System	Ugur Guvenc, Serhat Duman, İbrahim Akkaya	

<b>Session 22</b>		<b>Others-II</b>		Tuesday June 12, 16:00 -17:30
<b>Chair</b>		<b>Ronald Herman, University of Cape Town, South Africa</b>		<b>Room : 107</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS T22.1	72	Generation of Domestic Load Profiles - an Adaptive Top-Down Approach	Christof Bucher, Göran Andersson	
TS T22.2	179	An Observation Of A Nonlinear Power System Behavior Leading To Chaos In The 3-Dimensional State Space	Leyla KURU, Ersen KURU	
TS T22.3	299	Intellectual Voltage Regulation on Base of Fuzzy Sets Theory	N.A. Yusifbayli, H.B. Guliyev	
TS T22.4	228	An Elitist Artificial Bee Colony Based Size and Location of Distributed Generation in Radial Distribution System for Loss Minimization	Khyati Mistry, Jay Patel, Utkarsh Sharma, Ranjit Roy	

<b>Session 23</b>		<b>Energy Markets-II</b>		Tuesday June 12, 16:00 -17:30
<b>Chair</b>		<b>Bagen Bagen, Manitoba Hydro, Canada</b>		<b>Room : 127</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS T23.1	96	Comparison of Wind Power Bidding Strategies under Probabilistic Forecasts	Hugo A. Gil, Jesus Riquelme Santos	
TS T23.2	133	Stochastic dynamic programming for unified short and medium-term planning of hydro power considering market products	Hubert Abgottsporn, Matthias Bucher, Göran Andersson	
TS T23.3	285	Optimal energy contract portfolio under price and credit risks- an integrated approach	Leontina Pinto, Daniel Sica, Paula Leite, Jacques Szczupak	
TS T23.4	210	Optimal Spinning Reserve Allocation in Electricity Markets Using Cost/Benefit Analysis	Mohammad Hossein Ranjbar, Abolfazl Pirayesh	
TS T23.5	68	New Intelligent Approach in Short-Term Electricity Prices Prediction Towards Reducing Uncertainty	G.J. Osório, J.C.O. Matias, H.M.I. Pousinho, J.P.S. Catalão	
TS T23.6	102	Short-term load forecasting using RBF neural network and ANFIS in real-time price environment considering market elasticity	Hadi Ahmadi, Mahmoud-Reza Haghifam	

<b>Session 24</b>		<b>Risk Analysis-II</b>		Tuesday June 12, 16:00 -17:30	
<b>Chair</b>		<b>Lina Bertling, Chalmers University of Technology, Sweden</b>		<b>Room : 215</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS T24.1	108	Monitoring vulnerability in power systems. Extraordinary events, analysis framework and development of indicators	Gerd Kjølle, Oddbjørn Gjerde, Matthias Hofmann		
TS T24.2	123	Application of Risk Assessment Method for Power System Interconnection Cost and Benefit Evaluation	Anna Mutule, Oleg Kochukov, Zigurds Krishans,		
TS T24.3	244	Trigeneration system planning based on decision theory	Pierluigi Mancarella, Gianfranco Chicco, Angela Russo		
TS T24.4	125	A Pre-Study Towards Investigating the Art of Choosing Right Level of Input Data	Carl Joan Wallnerström, Patrik Hilber, Sabina Stenberg		
TS T24.5	263	Probabilistic Resilience Model of Electric Power Systems Subjected to Hurricane Hazards	Min Ouyang, Leonardo Dueñas-Osorio		
TS T24.6	187	Risk Limiting Dispatch: Empirical Study	Ram Rajagopal, Janusz Bialek, Chris Dent, Robert Entriken, Felix Wu, Pravin Varaiya		

### Technical Sessions (W25, W26, W27 & W28)

June 13, 2012 Wednesday, 09:00 - 10:30					
<b>Session 25</b>		<b>Energy Markets-III</b>		Wednesday June 13, 09:00 -10:30	
<b>Chair</b>		<b>Ali Chowdhury, 8minutenergy Renewables, USA</b>		<b>Room : 109</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS W25.1	145	Probability-weighted LMP and RCP for Day-Ahead Energy Markets using Stochastic Security-Constrained Unit Commitment	Erik Ela, Mark O'Malley		
TS W25.2	32	Multicriterial Optimization of Investment Costs in Case of the Reliability Centered Maintenance	Ingo Jeromin, Gerd Balzer, Christoph Eichler, Marco Fleckenstein		
TS W25.3	161	Impact of Wind Curtailment Price on Day Ahead Energy Market Clearing	Cem Sahin, Doğan Gezer, Abdullah Nadar		
TS W25.4	189	A Probabilistic Methodology for Transmission Planning under Severe Uncertainties	Eleftheria Contaxi, Costas Vournas, John Kabouris		
TS W25.5	272	Incorporating Probabilistic Cost/Worth Analysis in Maintenance Prioritization of Power Distribution Components-A Practical Approach	Payman Dehghanian, Moein Moeini-Aghaie, Mahmud Fotuhi-Firuzabad		

<b>Session 26</b>		<b>Reliability Analysis-V</b>		Wednesday June 13, 09:00 -10:30	
<b>Chair</b>		<b>Armando Leite de Silva, Federal University of Itajuba, Brasil</b>		<b>Room : 107</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS W26.1	265	Case study of impact of E-Mobility on power grid reliability: Reliability caculations of a low voltage power grid	Lan Liu, Gerd Balzer, Alois Kessler, Felix Teufel		
TS W26.2	114	Probabilistic Identification of Power System Reliability Map	Selma Khalid E. Awadallah, Jovica Milanovic, Zhongdong Wang		
TS W26.3	148	Assessment of the Network Reliability Calculation in Transmission System Development Tasks	Artjoms Obushevs, Irina Oleinikova, Zigurds Krishans		
TS W26.4	85	Reliability Evaluation of Underground Cable Systems used in Transmission Networks	Bart Tuinema, Madeleine Gibescu, Mart van der Meijden, Lou van der Sluis		
TS W26.5	97	Wind Turbine Generator Reliability Model considering Wind-speed Dependent Outage Rate	Manjun LIU, Lin CHENG, Xiaohui YE, Jin LIN, Xingmei QIN		

<b>Session 27</b>		<b>Smart Grid-IV</b>		Wednesday June 13, 09:00 -10:30	
<b>Chair</b>		<b>Prof. João Catalão, University of Beira Interior, Portugal</b>		<b>Room : 127</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS W27.1	106	Study of test equations method's application for bad data detection in PMU measurements.	Anna Glazunova, Irina Kolosok, Elena Korkina		
TS W27.2	310	Vector Auto-regression Applied to UK Wind Speed data	David McMillan, David Hill, Keith Bell, Charles Pumley, David Infield		
TS W27.3	136	Transfer Function Modeling of Wind Farm Characteristics using Dynamic Regression	Binayak Banerjee, Dilan Jayaweera, Syed M. Islam		
TS W27.4	274	Analysis of Rotor Angle Stability in a real-operating Micro-grid in Southern Brazil	Robson Pires, Marcos Netto, Flávio Becon-Lemos		

<b>Session 28</b>		<b>Operation-III</b>		Wednesday June 13, 09:00 -10:30	
<b>Chair</b>		<b>Peng Wang, Nanyang Technological University, Singapore</b>		<b>Room : 215</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS W28.1	160	Optimal Spinning Reserve Considering Customer Reliability, Load Forecast Uncertainty, and Wind Generation Intermittency	Amir Mehrtash, Lalit Goel, Peng Wang		
TS W28.2	152	A Transients' Study of an Algerian Power System Network Based on ATP Software	Saliha Boutora, Hamid Bentarzi, Hamza Kerchou, Fateh Manai		
TS W28.3	71	Wind Speed Time Series Generation for Dynamic Analysis: A Proposal	Fidel Fernandez-Bernal		
TS W28.4	309	TLL-Based Reconfiguration for Large-Scaled Distribution Networks with Time-Varying Loads Consideration	Hamid Reza Mirjalili, Ali Reza Sedighi, Mahmood Reza Mirjalili, Mahmood Reza Hagifam		

### Technical Sessions (W29, W30, W31 & W32)

June 13, 2012 Wednesday, 11:00 - 12:30					
<b>Session 29</b>		<b>Power Quality-II</b>		Wednesday June 13, 11:00 - 12:30	
<b>Chair</b>		<b>Canbolat Ucak, Yeditepe University, Turkey</b>		<b>Room : 109</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS W29.1	219	Development of Current Harmonic Estimation Method by Extreme Learning Machine	Pyeong-Shik Ji, Dae-Jong Lee, Jong-Pil Lee, Hyung-Chul Kim, Jae-Yoon Lim		
TS W29.2	67	An investigation into the Effects of Complex Supply Voltage Unbalance on Squirrel Cage Induction Motors	Fatma Zohra Dekhandji, Larbi Refoufi		
TS W29.3	209	Reactive Power Compensation in Transmission System Considering Static Load Modeling	Babak Safari Touraj, Reza Yousefi		
TS W29.4	111	Active Power Compensation in Industrial Applications Using Statcom with Supercapacitors	Alexander Yanushkevich, Josef Tlustý		
TS W29.5	253	Development of a Quality Management System for Electric Power applied to Small Wind Turbines	Oswaldo Hideo Ando Junior, Mario Orlando Oliveira, João Mota Neto, Roberto Chouhy Leborgne, Arturo Suman Bretas, Anderson Diogo Spacek		

<b>Session 30</b>		<b>Risk Analysis-III</b>		Wednesday June 13, 11:00 - 12:30
<b>Chair</b>		<b>Patrik Hilber, Royal Institute of Technology (KTH), Sweden</b>		<b>Room : 107</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS W30.1	150	Wind Farm Capital Cost Regression Model for Accurate Life Cycle Cost Estimation	David McMillan, Graham Ault	
TS W30.2	14	Online reliability assesment of power system	Arne Brufladt Svendsen, Jakob Eman, Trond Tollefsen, Jan Ove Gjerde, Stig løvlund, Tørris Digernes, Yngve Aabø	
TS W30.3	238	Investigation of the Blackouts Complexity Regarding Spinning Reserve and Frequency Control in Interconnected Power Systems	Omid Alizadeh Mousavi, Mokhtar Bozorg, Rachid Cherkaoui, Mario Paolone	
TS W30.4	104	An aggregate network model acquired by elimination of frequency dependent load nodes	Georgi Georgiev, Inga Zicmane, Eduard Antonov	
TS W30.5	194	CDF-Based reliability insurance contracts	Seyyed Mostafa Abedi, Mahmoud-Reza Haghifam	

<b>Session 31</b>		<b>Renewable-II, Wind Power</b>		Wednesday June 13, 11:00 - 12:30
<b>Chair</b>		<b>Prof. Ying-Yi Hong, Chung Yuan Christian University, Taiwan</b>		<b>Room : 127</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS W31.1	8	Optimal Operation of Series Connected Turbines for Off-shore Wind Parks.	Alejandro Garces, Marta Molinas	
TS W31.2	213	A Copula-based Semiparametric Markov Model of Wind Generation	Hamed Valizadeh Haghi, Mohammad Tavakoli Bina, Masoud Aliakbar Golkar	
TS W31.3	113	Probabilistic guarantees for the N-1 security of systems with wind power generation	Maria Vrakopoulou, Kostas Margellos, John Lygeros, Goran Andersson	
TS W31.4	271	Wind Power Scenario Tree Tool:Development and Methodology	Colm Lowery, Mark O'Malley	
TS W31.5	88	A robust reserve scheduling technique for power systems with high wind penetration	Kostas Margellos, Tobias Haring, Peter Hokayem, Manuel Schubiger, John Lygeros,	

<b>Session 32</b>		<b>Reliability Analysis-VI</b>		Wednesday June 13, 11:00 - 12:30
<b>Chair</b>		<b>Panida Jirutitjaroen, National University of Singapore, Singapore</b>		<b>Room : 215</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS W32.1	51	Reliability of Power System in Relation to Nuclear Power Plant Safety	Marko Cepin	
TS W32.2	202	Evaluating the Performance of Small Autonomous Power Systems using Reliability Worth Analysis	Yiannis Katsigiannis, Pavlos Georgilakis, Spyridon Papadopoulos, Marios Moschakis	
TS W32.3	54	Scenario-Based Generation Expansion Planning for a Regional Electricity Network in Iran	Mohsen Gitizadeh, Mahdi Kaji, Jamshid Aghaei	
TS W32.4	26	Effects of Maintenance on Reliability of Probabilistic Maintenance Models	Saranga K Abeygunawardane, Panida Jirutitjaroen	
TS W32.5	289	A Method for Reliability Evaluation of Multi-Level Converters	Mohammed Benidris, Joydeep Mitra, Salem Elsaiah	

### Technical Sessions (W33, W34, W35 & W36)

<b>June 13, 2012 Wednesday, 14:00 - 15:30</b>				
<b>Session 33</b>		<b>Reliability Analysis-VII</b>		Wednesday June 13, 14:00 -15:30
<b>Chair</b>		<b>Gerd Kjolle, Sintef Energy Research, Norway</b>		<b>Room : 109</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS W33.1	115	Analysis and comparison of distribution system costs, dependant on underground cable and overhead lines' fault probabilities and maintenance cost difference	Ilze Priedite-Razgale, Aleksandrs Lvovs, Vilnis Kreslins	
TS W33.2	109	Towards Reliability Centred Maintenance of Wind Turbines	David McMillan, Graham Ault	
TS W33.3	207	A Modified Minimal Cut Set Algorithm of Distribution System Reliability with Distributed Generator	Congqi YE, Lin CHENG, Xiaohui YE, Hao TIAN	
TS W33.4	234	Multiple Outage Statistics in Turkish National Power Transmission System	Aydogan Ozdemir, Mustafa Bagriyanik, Ilim Erden, Yener Akkaya	
TS W33.5	214	A Hybrid Approach to Investigating the Distributional Aspects Associated with Reliability System Indices	Mauro Rosa, Miguel Heleno, Diego Issicaba, Manuel Matos, Flavio Becon	

<b>Session 34</b>		<b>Renewable-III</b>		Wednesday June 13, 14:00 -15:30	
<b>Chair</b>		<b>Jamshid Aghaei, Shiraz University of Technology, Iran</b>		<b>Room : 107</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS W34.1	240	Evolutionary Computation Based Size and Capacity Determination of Distributed Generation in Radial Distribution System for Loss Minimization	Khyati Mistry, Ananya Deb, Ranjit Roy		
TS W34.2	156	Web Based Online Realtime Information System considering Demand Side Management for Power Systems including Wind Turbine Generators	Kyeonghee Cho, Taeho Song, Jintaek Lim, Jaeseok Choi, Junmin Cha		
TS W34.3	290	On the Generation of Wind Velocity Scenarios	Jacques Szczupak, Denis Lage, Leontina Pinto		
TS W34.4	162	Sizing of Renewable Energy Source for Profit Maximization of Individual Power Plant in Transmission Network	Sung-Yul Kim, Je-Seok Shin, Jin-O Kim		
TS W34.5	211	Scenario Reduction Based Economic Load Dispatch in a Power System Incorporating Wind Power	Abolfazl Pirayesh, Mostafa Mohseni, Mohammad Hossein Ranjbar		

<b>Session 35</b>		<b>Electrical Machines-I</b>		Wednesday June 13, 14:00 -15:30	
<b>Chair</b>		<b>Lale Tukenmez Ergene, Istanbul technical University, Turkey</b>		<b>Room : 127</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS W35.1	81	Hydro Turbine Speed Control based on Adaptive Disturbance Rejection and State Space PI Controller	Tsonyo Slavov, Teofana Puleva		
TS W35.2	206	DTC WITH SVM BASED ON HYSTERESIS Applied to the synchronous machine	Bourourou Fares, Bouras Lakhdar		
TS W35.3	312	Precision Voltage Transformer For AC Power Measurement Standard	Burak Ayhan, Hüseyin Çaycı, Enis Turhan, Canbolat UÇAK		
TS W35.4	17	Optimizing of IP Speed Controller in FOC of Induction Motor Using Particle Swarm Optimization	Bekakra Youcef, Ben Attous Djilani		

<b>Session 36</b>		<b>Energy Markets-IV</b>		Wednesday June 13, 14:00 -15:30	
<b>Chair</b>		<b>Prof.Lou van der Sluis, Delft Universtiy of Technology, Netherlands</b>		<b>Room : 215</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS W36.1	242	Forecasting of Extremely Low Prices in the Spanish Electricity Market: a Logistic Regression and Decision-Tree Approach	Antonio Bello, Javier Reneses, Julián Barquín		
TS W36.2	250	Applying Probabilistic Nodal Pricing to a Multi-period Demand Response	Nestor Gonzalez, Guillermo Gutierrez		
TS W36.3	306	A Study on Volatility Caused by Unprecedented Uncertainties	Veysel Sarıcı, Nazif Hülagü Sohtaoğlu		
TS W36.4	181	Implementation of Supply Function Equilibrium Model in a Pay-as-Bid, Incomplete Information Electricity Market: Case study of Iran Electricity Market	Asad Lesani, Ashkan Rahimi-Kian, Behnam Alizadeh, Javad Mohammadi		
TS W36.5	257	Transmission Expansion Planning Considering Alleviation Cost	Maziar Karimi, Abolfazl Pirayesh		

### Technical Sessions (W37, W38, W39 & W40)

June 13, 2012 Wednesday, 16:00 - 17:30					
<b>Session 37</b>		<b>Condition Monitoring- II</b>		Wednesday June 13, 16:00 -17:30	
<b>Chair</b>		<b>Levent Ovacik, Istanbul Technical University, TURKEY</b>		<b>Room : 109</b>	
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>		
TS W37.1	291	Modal Analysis of Measured Inter-Area Oscillations in the Mexican System	ENRIQUE MARTINEZ		
TS W37.2	48	Cable Segment Replacement Optimization	Patrik Hilber		
TS W37.3	92	Forecast of electrical equipment condition using Markov chains	Grzegorz Kafłowski, Mustafa Kizilcay		
TS W37.4	18	A Simulation Study of the Gas Characteristics Effect on Surface Discharges Apparition between Electrode and Dielectric Layer	Seghier Tahar, Zegnini Boubaker		
TS W37.5	232	Determination of Maintenance Frequency of MV Overhead Line Based On Spectral Analysis	Amin Moradkhani, Mahmoud-Reza Haghifam, Mohsen Mohammad Zadeh		

<b>Session 38</b>		<b>State Estimation-I</b>		Wednesday June 13, 16:00 -17:30
<b>Chair</b>		<b>Cansin Evrenosoglu, Virginia Tech, USA</b>		<b>Room : 107</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS W38.1	55	Pseudo-Measurement Placement For Reliable State Estimation	Murat Gol, Ali Abur	
TS W38.2	314	A New State Estimation Algorithm Using Synchronized Phasor Measurements	Bei Gou	
TS W38.3	247	Enhanced Probabilistic Modeling of Phasor Measurement Errors in Hybrid SCADA-PMU State Estimation.	Daniel Martins Bez, Antonio José Alves Simões Costa	
TS W38.4	69	State Estimation Method for on-line Express Analysis of Available Transfer Capability of Transmission Lines	Anna Glazunova, Elena Aksaeva	
TS W38.5	118	Estimating Dynamic Response of a Synchronous Generator with Uncertain Parameters by Applying the Spectral Collocation Method	Rastko Zivanovic	

<b>Session 39</b>		<b>Others-III, Power System Stability</b>		Wednesday June 13, 16:00 -17:30
<b>Chair</b>		<b>V. M. Istemihan Genc, İstanbul Technical University, Turkey</b>		<b>Room : 127</b>
<i>Session</i>	<i>Paper ID</i>	<i>Title</i>	<i>Author(s)</i>	
TS W39.1	294	N-k-epsilon Survivable Power System Design	Richard Chen, Amy Cohn, Neng Fan, Ali Pinar	
TS W39.2	221	Tuning of UPFC and PSS Parameters for Improvement of Power System Stability Using HSA	Mehrdad Hamidian, Alireza Rezazadeh, Mostafa Sedighzadeh, Maziar Karimi, Mehdi Shadmand	
TS W39.3	243	A Classification Tree Based Optimal Generation Rescheduling Method for Small-Signal Stability	V. M. Istemihan Genc	
TS W39.4	35	Probabilistic Small Signal Stability Analysis of a Power System Consisting Intermittent wind Generation	Temitope Raphael Ayodele, Abdul-Ganiyu Adisa Jimoh, Josiah L. Munda, John T. Agee	
TS W39.5	197	Probabilistic Small Signal Stability Analysis of power systems Containing Wind turbine	Mohammad Mohammadi, Nazak Soleimanpour	