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Technical University of Athens



Med Power 2010

CONFERENCE AND EXHIBITION

**7th Mediterranean Conference and Exhibition
on Power Generation, Transmission,
Distribution and Energy Conversion**

Venue: Adams Hotel, Agia Napa

**7 – 10 November 2010
Agia Napa, Cyprus**

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GENERAL THEME:

The 7th Mediterranean Conference on Power Generation, Transmission Distribution and Energy Conversion belongs to a series of Conferences that have established a major energy platform in the region. The Conference will focus on topics of interest to the Electric Power Industry. It intends to address the vast technological changes in all areas of the electric energy business, products, equipment, methods, and so on. MedPower'10 will provide power engineers, technicians, academics and industrialists the opportunities to be updated on current academic and industry developments, achievements and trends through presentations and open discussions. Presentations will emphasise the regional needs and peculiarities of environmental aspects associated with electric power generation, transmission, energy conversion systems, distribution systems, automation and demand control. Recent experience in the creation and effective functioning of competitive electric energy markets will be addressed. This Conference will significantly benefit engineers and technicians through state-of-the-art presentations by major equipment suppliers, researchers, utility specialists, invited speakers and discussions by international participants.

Green Mediterranean: Recent concerns on environmental protection and sustainable development resulted in the critical need for a cleaner energy technology. This is leading to the use of renewable energy sources (RES) and to an alternative to large scale source of energy production, known as distributed generation (DG) technologies. Solar potential is an abundant commodity in the Mediterranean region and, therefore, RES-DG technologies for electricity production from solar energy (photovoltaic and/or solar thermal concentrating systems) are attractive. Persistent obstacles are the technology cost, the stability issue for isolated power systems, storage and the energy policies of the Mediterranean countries.

PREFERENTIAL SUBJECTS:

- Planning and operation of power systems in competitive markets
- Isolated systems
- Renewable energy sources and storage devices
- Climate change and greenhouse gas emissions
- Zero emission technologies and carbon capture storage
- Distributed generation and microgrids
- Reliability assessment of power systems
- Security assessment and risk analysis
- Smart grids
- E-Mobility
- Power quality
- Energy efficiency
- Electromagnetic transients
- Power electronics and FACTS
- Protection and safety
- Insulation co-ordination
- Cables and insulating material
- High voltage engineering
- Illumination techniques
- Electric machines and drives
- Information and communication technologies

LANGUAGE:

English both for presentation and manuscripts.

LOCATION:

The 7th Mediterranean Conference on Power Generation, Transmission Distribution and Energy Conversion will be held in Cyprus. Cyprus is the third largest island in Mediterranean, with a past history of 10,000 years. Cyprus is a modern country that effortlessly marries European culture with ancient enchantment. One of the benefits of being a Mediterranean island is plentiful sunshine throughout the year, and Cyprus is no exception. In fact, Cyprus epitomizes the ideal weather of the region with sunny days and fine temperatures almost every day. Extremes of temperatures are rare, meaning Cyprus has something to offer every month of the year, whether it's swimming (as late as November) or enjoying cultural sites and festivals (all year long). The weather in Nicosia in December is mildly cold with average daily temperature around 13°C, and with an average of 3 rainy days for the month.

VENUE:

The Conference will be held in Adams Hotel, situated in Agia Napa. The Hotel will provide conference rooms for the technical sessions, exhibition area, and smaller rooms for meetings, foyers, and excellent hospitality. English typing, telephones, internet, fax and photocopy services will be also available.

EXHIBIT:

Space consisting of stands or booths has been reserved for exhibits and demonstrations by corporations and businesses specializing in electrical power equipment and software products. Early reservation for exhibit space is recommended. For reservations, contact Conference Secretariat.

SUBMISSION PROCEDURES:

Prospective authors are invited to submit previously unpublished papers relevant to conference topics. Author's instructions will be soon available on the internet. Paper summaries should be submitted to the Conference Secretariat by uploading them onto the website of the Conference (www.cyprusconferences.org/medpower2010). Please refer to the deadlines below.

IMPORTANT DATES:

20 October 2009	Call for papers
31 January 2010	Deadline to submit paper title and short summary (extended to 28 th February 2010).
10 March 2010	Notification of Acceptance will be mailed to authors.
31 May 2010	Deadline to submit the final manuscript.
10 July 2010	Notification of Final Acceptance will be mailed to authors.
30 September 2010	Deadline for advance registration.

PRELIMINARY PROGRAMME:

Sunday, 7 November 2010	
19:00	Registration and welcome cocktail
Monday, 8 November 2010	
08:00	Registration
	Opening Ceremony
09:00	Welcome notes <i>Chairperson: Nicos Kouyialis, Conference Co-Chairman</i>
	H.E. Dr. Titos Christofides, Under Secretary to the President of the Republic of Cyprus Mr. George Shammass, Chairman of Cyprus Energy Regulatory Authority Mr. Harris Thrasou, Chairman of Board of Directors, Electricity Authority of Cyprus Dr. Christos Christodoulides, Director of Cyprus Transmission System Operator Dr. Venizelos Efthimiou, Chairperson of CIGRE Cyprus National Committee Dr. Apostolos Kokkosis, Chairperson of IET Hellas Network Dr. Arie Braunstein, Chairperson of IET Israel Network
09:45	Conference scope and objectives <i>Conference Chairman: Dr. Andreas Poullikkas</i>
09:50	Coffee
10:10	Keynote lecture <i>Chairperson: Prof. Evangelos Dialynas</i> The European Investment Bank financing schemes in renewable technologies for the Mediterranean region <i>Mr. Emmanouel Maroulakis, European Investment Bank, Luxembourg</i>
10:40	Plenary technical session I
	Future trends for power systems <i>Chairperson: Andreas Theophanous</i>
10:40	Power system development issues for high reliability and low emission performance in an environment with increasing uncertainties (invited speech) <i>Prof. E. Dialynas, National Technical University of Athens, Greece</i>
11:10	The future electricity markets (invited speech) <i>Prof. A. Bakirtzis, Aristotle University of Thessaloniki, Greece</i>
11:40	The Cyprus Energy Regulatory Authority strategic targets for the development of Cyprus electricity market (invited speech) <i>Mr. G. Shammass, Cyprus Energy Regulatory Authority, Cyprus</i>
12:10	Renewable energy sources - The case of Cyprus (invited speech) <i>Mr. S. Kassinis, Ministry of Commerce, Industry and Tourism, Cyprus</i>
12:40	Microgrids, the way to unlock the potential of Distributed Generation (invited speech) <i>Prof. N. Hatziargyriou, Public Power Corporation S.A., Greece</i>
13:10	A sustainable future through a well timed evolution of Smart Grids (invited speech) <i>Dr. V. Efthimiou, Electricity Authority of Cyprus, Cyprus</i>
13:40	Lunch

Monday, 8 November 2010

15:00		<i>Technical sessions</i>	
Electricity markets I	Renewable energy sources and storage I		
<i>Chairperson: Haris Karavas</i>		<i>Chairperson: Solon Kassinis</i>	
15:00	Impact of emissions cost on the mid-term generation scheduling in the Greek electricity market (Paper No. MED10/140) <i>P. Andrianesis, G. Liberopoulos, P. Biskas (Greece)</i>	15:00	Biogas to syngas renewable process for combined efficient power generation (Paper No. MED10/210) <i>Z. Ziaka, S. Vasileiadis, M. Tsimpa (Greece)</i>
15:15	Strategy deviation index as a new reactive market power indicator (Paper No. MED10/212) <i>R. Samii, S. Nourizadeh, A. Ranjbar (Iran)</i>	15:15	Greenhouse zero-dimensional model with CO ₂ reduction in emission due to renewable energy use and new technologies (Paper No. MED10/165) <i>S. Kabashi, G. Kabashi, S. Bekteshi, S. Ahmetaj, A. Jonuzi (Kosovo)</i>
15:30	Evaluating the new Greek electricity market rules (Paper No. MED10/237) <i>K. Sakellaris, K. Perrakis, G. Angelidis (Greece)</i>	15:30	Biomass and electrical energy (Paper No. MED10/119) <i>A. Kellas (Cyprus)</i>
15:45	Deriving loss profiles for market purposes (Paper No. MED10/117) <i>J. Fidalgo, M. Matos, H. Jorge (Portugal)</i>	15:45	Power generation by using point absorber wave energy converter coupled with linear permanent magnet generator (Paper No. MED10/214) <i>N. Kimoulakis, P. Kakosimos, A. Kladas (Greece)</i>
16:00	Preventive generation maintenance scheduling – A simulated annealing approach to use in competitive markets (Paper No. MED10/105) <i>J. Saraiva, M. Pereira, V. Mendes, J. Sousa (Portugal)</i>	16:00	Benefits of hybrid wind-pumped storage unit in a non-interconnected power system using optimal power flow (Paper No. MED10/134) <i>A. Anastasiadis, A. Vatalalos, G. Vogiatzakis, S. Papathanasiou, N. Hatzigiorgiou (Greece)</i>
16:15	Games among long and short term electricity producers and users (Paper No. MED10/207) <i>N. Kakogiannis, P. Kontogiorgos, E. Sarri, G. Papavassilopoulos (Greece)</i>	16:15	Hydrogen, (poly)-propylene cogeneration utilizing alternative energy via smart membrane technologies (Paper No. MED10/201) <i>Z. Ziaka (Greece)</i>
16:30	Coffee		
17:00		<i>Technical sessions</i>	
Transmission systems and substations I	Electric machines and drives I		
<i>Chairperson: Prof. Ioannis Stathopoulos</i>		<i>Chairperson: Dr. Adonis Kellas</i>	
17:00	Long term leakage current measurements in the field: Techniques to overcome the noise and data size problems (Paper No. MED10/167) <i>D. Pylarinos, K. Siderakis, E. Pyrgioti, E. Thalassinakis, I. Vitellas (Greece)</i>	17:00	Coordinated Q-V regulation in steam power plant – Design of real time simulator (Paper No. MED10/153) <i>J. Dragosavac, Ž. Janda, L. Mihajlovic (Serbia), J. Milanović (United Kingdom)</i>
17:15	Intelligent transformer substations in modern medium voltage networks as part of “smart grid” (Paper No. MED10/240) <i>H. Späck, B. Schüpfertling, J. Riemenschneider, M. Schelte (Germany)</i>	17:15	Reduction of torque ripple in direct torque control of induction motor using constant switching frequency operation (Paper No. MED10/175) <i>V. Kumar, S. Rao (India)</i>
17:30	Technical requirements of distributed generation facilities and their impact on the operational performance of isolated power systems (Paper No. MED10/241) <i>E. Dialynas, L. Daoutis, T. Diagoupis (Greece), E. Kyriakides, C. Toufexis, I. Charalambous (Cyprus)</i>	17:30	Comparison of three-phase distribution transformer banks against three-phase distribution transformers (Paper No. MED10/131) <i>J. Olivares-Galván, E. Vázquez-Martínez, J. Mendieta-Antúnez (Mexico), P. Georgilakis (Greece)</i>
17:45	BIOTEMP® Transformer technology for innovative compact substation (Paper No. MED10/246) <i>M. Hrkac, G. Miatto (Italy), I. Kosmoglou, P. Papageorgiou (Greece)</i>		
18:00	End of Day I		

Tuesday, 9 November 2010

08:00	Registration		
08:45	Conference announcements		
09:00	Keynote lecture <i>Chairperson: Prof. Christodoulos Christodoulou</i> <p align="center">Optimum large scale integration of renewable technologies in power generation systems</p> <i>Dr. Andreas Poullikkas, Electricity Authority of Cyprus, Cyprus</i>		
09:30	Technical sessions		
	Power quality systems I <i>Chairperson: Dr. Apostolos Kokkosis</i>	Photovoltaic systems I <i>Chairperson: Dr. George Karagiorgis</i>	Distribution systems and microgrids I <i>Chairperson: Prof. Nikos Hatziargyriou</i>
09:30	Development and verification of interconnected system power loss equations (Paper No. MED10/182) <i>A. Polycarpou, A. Papadakis, N. Christofides (Cyprus), H. Nouri (United Kingdom)</i>	Simulation of decentralized multi-terminal power-electronic systems adequate for solar farms (Paper No. MED10/233) <i>R. Bartelt, C. Heising, V. Staudt, A. Steimel (Germany)</i>	Evaluation of virtual power plant (VPP) operation based on actual measurements (Paper No. MED10/136) <i>N. Hatziargyriou, A. Tsikalakis, E. Karfopoulos, T. Tomtsi (Greece), G. Karagiorgis, C. Christodoulou, A. Poullikkas (Cyprus)</i>
09:45	Increase power transfer capability and controlling line power flow in power system installed the FACTS (Paper No. MED10/193) <i>V. Komoni, I. Krasniqi, G. Kabashi, A. Alidemaj (Kosovo)</i>	Diagnostics of photovoltaic power plant operating (Paper No. MED10/206) <i>Z. Machacek, V. Benda, D. Busek (Czech Republic)</i>	Single agents in smart grids (Paper No. MED10/179) <i>P. Romanos, N. Hatziargyriou (Greece), J. Schmid (Germany), J. Mutale (United Kingdom)</i>
10:00	Overview of local identification of emergency and protection against voltage collapse (Paper No. MED10/250) <i>C. Vournas, C. Lambrou (Greece)</i>	Feasibility study of a 150kWp photovoltaic park in Cyprus (Paper No. MED10/183) <i>S. Kyprianou, N. Christofides, A. Papadakis, A. Polycarpou (Cyprus)</i>	Reactive power planning in distribution networks with distributed generation (Paper No. MED10/152) <i>M. Alonso, H. Amarís, C. Álvarez, R. Sánchez (Spain)</i>
10:15	Building a low-cost network for power-quality monitoring with open-source-hardware nodes (Paper No. MED10/162) <i>I. Liaperdos, I. Paraskevas, S. Potirakis, M. Rangoussi (Greece)</i>	A note on parameters of photovoltaic cells in dependence on irradiance and temperature (Paper No. MED10/163) <i>V. Benda, Z. Machacek (Czech Republic)</i>	Thermal modeling of power substations using the finite element method (Paper No. MED10/188) <i>N. Loucaides, Y. Ioannides, V. Eftymiou, G. Georghiou (Cyprus)</i>
10:30		Numerical modeling in photovoltaic applications (Paper No. MED10/184) <i>A. Papadakis, A. Polycarpou, N. Christofides (Cyprus)</i>	Active distribution network evolution in different regulatory environments (Paper No. MED10/217) <i>F. Pilo, G. Celli, S. Mocci, G. Soma (Italy)</i>
10:45	Coffee		

Tuesday, 9 November 2010

Tuesday, 9 November 2010			
11:15	Technical sessions		
	Reliability, security assessment and risk analysis I <i>Chairperson: Prof. Maria Rangoussi</i>	Wind generation I <i>Chairperson: Prof. Antonios Kladas</i>	Distribution systems and microgrids II <i>Chairperson: Dr. Venizelos Efthimiou</i>
11:15	Assessment of primary response capability of generating units for dynamic allocation of spinning reserves in the Cyprus power system (Paper No. MED10/239) <i>S. Pillutla, F. Prabhakara (USA), S. Stavrinou, A. Theophanous (Cyprus)</i>	Doubly-fed induction generator model for analysis of fault-ride through and asymmetrical generator-side faults (Paper No. MED10/232) <i>C. Heising, J. Fang, V. Staudt, A. Steimel (Germany)</i>	Modeling of distribution network cell based on grey-box approach (Paper No. MED10/106) <i>S. Zali, J. Milanović (United Kingdom)</i>
11:30	Short-circuit analysis of an isolated generator and comparative study of IEC, ANSI and dynamic simulation (Paper No. MED10/195) <i>C. Kaloudas, P. Papadopoulos, T. Papadopoulos, A. Marinopoulos, G. Papagiannis (Greece)</i>	Micro and small-scale wind generation in urban distribution networks (Paper No. MED10/160) <i>J. Acosta, A. Collin, B. Hayes, S. Djokić (Scotland)</i>	A new tool for computational analysis and design of electrical installations (Paper No. MED10/180) <i>M. Pakkos, A. Polycarpou (Cyprus)</i>
11:45	Reliability and reserve capacity assessment of isolated power systems with increased penetration of renewable energy sources (Paper No. MED10/242) <i>E. Dialynas, L. Daoutis (Greece), C. Toufexis, I. Charalambous (Cyprus)</i>	The phasor simulation of wind turbines with double fed induction generator (Paper No. MED10/150) <i>N. Demirovic, A. Tokic, N. Mehinovic (Bosnia-Herzegovina)</i>	GROWDERS, a project to demonstrate grid connected electricity storage in the distribution grid (Paper No. MED10/249) <i>J. van der Burgt, J. Lemmens, P. de Boer-Meulman (Netherlands)</i>
12:00	Transient phenomena analysis and protection evaluation in an industrial power system (Paper No. MED10/204) <i>V. Nikolaidis, I. Milis (Greece), G. Rizopoulos (Libya)</i>	Flux-based control concept for grid-side and machine-side converter of synchronous machine wind power generator (Paper No. MED10/230) <i>M. Oettmeier, C. Heising, V. Staudt, A. Steimel (Germany)</i>	Social aspects of wider microgrids deployment (Paper No. MED10/244) <i>A. Krkoleva, V. Taseska, N. Markovska, R. Taleski, V. Borozan (Skopje)</i>
12:15	Development of a validated dynamic model of Cyprus transmission system (Paper No. MED10/238) <i>S. Stavrinou, A. Petoussis, A. Theophanous (Cyprus), S. Pillutla, F. Prabhakara (USA)</i>	Robust control of a wind turbine (Paper No. MED10/178) <i>O. Ognyanova, P. Petkov, E. Haralanova, T. Puleva (Bulgaria)</i>	Validation of developed grey-box model of distribution network cell (Paper No. MED10/107) <i>S. Zali, J. Milanović (United Kingdom)</i>
12:30	Short-circuit current calculation and motor starting analysis in a cement industry in Cyprus (Paper No. MED10/196) <i>E. Gkogkou, C. Daniel, M. Gkeka, E. Efthymiou, C. Kaloudas, G. Papagiannis (Greece)</i>	Assessment of the influence of distributed generation and demand side management on transmission system performance (Paper No. MED10/155) <i>B. Hayes, A. Collin, J. Acosta, S. Djokić (Scotland)</i>	Load profiles and peak loads growth in typical consumption areas - Possibilities of their recording by remote metering system (Paper No. MED10/118) <i>N. Rajakovic, V. Shiljkut, S. Maksimovich (Serbia)</i>
12:45	Comparison of probabilistic and deterministic approaches for setting operating reserve in systems with high penetration of wind power (Paper No. MED10/127) <i>R. Bessa, M. Matos (Portugal)</i>	Modeling and control of power limited energy system (Paper No. MED10/172) <i>T. Puleva, G. Ruzhekov, E. Garipov (Bulgaria)</i>	Radiation telemetry over the local electrical power infrastructures (Paper No. MED10/243) <i>S. Tsitomeneas, A. Kokkosis, A. Charitopoulos (Greece)</i>
13:00	Lunch		

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14:30	<p>Keynote lecture <i>Chairperson: Dr. Arie Braunstein</i></p> <p align="center">Technological developments and future trends on electric vehicles</p> <p><i>Prof. Constantinos Sourkounis, Ruhr-University of Bochum, Germany</i></p>		
15:00	<p align="center">Technical sessions</p>		
	<p>Power quality systems II <i>Chairperson: Dr. Constantinos Vournas</i></p>	<p>Photovoltaic systems II <i>Chairperson: Dr. George Georghiou</i></p>	<p>Distribution systems and microgrids III <i>Chairperson: Dr. Mladen Kezunovic</i></p>
15:00	<p>Detection of transient events using the Hartley Phase Cepstrum for improved power quality (Paper No. MED10/121) <i>I. Paraskevas, A. Kokkosis, I. Liaperdos, M. Rangoussi (Greece)</i></p>	<p>Evaluation of grid-connected photovoltaic system performance losses in Cyprus (Paper No. MED10/148) <i>G. Makrides, G. Georghiou (Cyprus), B. Zinsser, M. Schubert, J. Werner (Germany)</i></p>	<p>The role of an aggregator agent for EV in the electricity market (Paper No. MED10/126) <i>R. Bessa, M. Matos (Portugal)</i></p>
15:15	<p>Dead-beat inverter control of filter-output voltage for feeding islanding grids (Paper No. MED10/231) <i>M. Oettmeier, C. Heising, V. Staudt, A. Steimel (Germany)</i></p>	<p>The influence of current sensor and MPP tracking on energy yield for PV power systems (Paper No. MED10/142) <i>A. Al-Diab, A. Bouabana, C. Sourkounis (Germany)</i></p>	<p>Service restoration in distribution systems using an evolutionary algorithm (Paper No. MED10/177) <i>B. Akduman, B. Türkay, A. Uyar (Turkey)</i></p>
15:30	<p>Contribution of distributed generators to the harmonic distortion in low voltage power network (Paper No. MED10/112) <i>R. Ciric, N. Rajakovic (Serbia), A. Polycarpou (Cyprus)</i></p>	<p>Advantages of P-I-N photovoltaic structures (Paper No. MED10/108) <i>G. Golan, A. Axelevitch (Israel)</i></p>	<p>Investigating the optimal separation point approach for optimization of distribution power system (Paper No. MED10/129) <i>R. Bualoti, M. Qemali, N. Hobdari, M. Çelo (Albania)</i></p>
15:45	<p>Grid voltage harmonics effect on distribution transformer operation (Paper No. MED10/161) <i>T. Kefalas, A. Kladas (Greece)</i></p>	<p>PV inverters supporting the grid – First experiences with testing and qualification according to the grid interconnection guidelines in Greece and Cyprus (Paper No. MED10/186) <i>P. Romanos, N. Hatziaargyriou, V. La Rocca, G. Tsolakos, K. Pantazis, N. Daniil, S. Bonias (Greece)</i></p>	<p>High power charging of electric vehicles in distribution grids (Paper No. MED10/135) <i>C. Sourkounis, A. Broy, B. Ni (Germany)</i></p>
16:00	<p>On the use of time-frequency distributions for the power quality problem of harmonics (Paper No. MED10/122) <i>I. Paraskevas, K. Prekas, S. Potirakis, M. Rangoussi (Greece)</i></p>	<p>Less could be more: Architectural integration of active solar systems in existing urban centres (Paper No. MED10/189) <i>A. Michael (Cyprus), F. Bougiatioti, A. Oikonomou (Greece)</i></p>	<p>Setup and preliminary results of a pilot on-line cable PD monitoring system on an 11 kV switchboard using capacitive couplers (Paper No. MED10/143) <i>D. Evagorou, A. Kyprianou, A. Stavrou, V. Efthymiou, G. Georghiou (Cyprus), P. Lewin (United Kingdom)</i></p>
16:15	<p align="center">Coffee</p>		

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16:45			
<i>Technical sessions</i>			
	Reliability, security assessment and risk analysis II <i>Chairperson: Dr. Grigoris Papagiannis</i>	Wind generation II <i>Chairperson: Dr. Elias Kyriakides</i>	Distribution systems and microgrids IV <i>Chairperson: Prof. Jovica Milanovic</i>
16:45	Observability analysis for power systems including conventional and phasor measurements (Paper No. MED10/158) <i>N. Manousakis, G. Korres (Greece)</i>	Direct drive synchronous generator wind turbine models for power system studies (Paper No. MED10/102) <i>I. Margaris, N. Hatziargyriou (Greece)</i>	Component-based aggregate load models for combined power flow and harmonic analysis (Paper No. MED10/171) <i>A. Collin, J. Acosta, B. Hayes, S. Djokic (United Kingdom)</i>
17:00	A constrained hybrid state estimator including pseudo flow measurements (Paper No. MED10/109) <i>M. Asprou, E. Kyriakides (Cyprus)</i>	Maximum efficiency of a wind energy conversion system with a PM synchronous generator (Paper No. MED10/128) <i>A. Mesemanolis, C. Mademlis, I. Kioskeridis (Greece)</i>	PEM fuel cell system evaluation using operational data and updated Matlab/Simulink simulation tools (Paper No. MED10/200) <i>I. Naxakis, A. Marinis, S. Nakis, E. Pyrgioti, I. Miliaris-Argitis (Greece)</i>
17:15	Transient behavior of grounding systems embedded in different earth structures (Paper No. MED10/203) <i>F. Asimakopoulou, V. Kontargyri, I. Gonos, I. Stathopoulos (Greece)</i>	Modeling wind generators with full scale frequency converters: Stability and passivity properties (Paper No. MED10/130) <i>A. Alexandridis, G. Marmidis (Greece)</i>	Profitability of smart grid solution application in distribution network (Paper No. MED10/248) <i>N. Katic, V. Marijanovic, I. Stefani (Serbia)</i>
17:30	Contribution of phase shifting transformers to improvement of the security of power transfer from the power plant (Paper No. MED10/245) <i>D. Dobrijević (Serbia), J. Milanović (United Kingdom)</i>	Influence of dc-link converter on operational performance of the power conversion train of wind energy converters with PMSM (Paper No. MED10/156) <i>C. Sourkounis, A. Broy, B. Ni (Germany)</i>	PHEVs as dynamically configurable dispersed energy storage for V2B uses in the smart grid (Paper No. MED10/174) <i>C. Pang, P. Dutta, S. Kim, M. Kezunovic, I. Damnjanovic (USA)</i>
17:45	A numerical algorithm for observability analysis based on Gram Matrix (Paper No. MED10/133) <i>G. Korres (Greece)</i>	Dynamic wind turbine model including blade oscillation effects for control strategy enabling mechanical stress reduction (Paper No. MED10/157) <i>C. Pournaras, V. Riziotis, A. Kladas (Greece)</i>	Power summation method for loss allocation in radial distribution networks with dispersed generation (Paper No. MED10/211) <i>M. Atanasovski, R. Taleski (Skopje)</i>
18:00		Wind grid code requirements regarding connection and operation of wind turbine in Kosovo (Paper No. MED10/192) <i>G. Kabashi, K. Kadriu, A. Gashi, V. Komoni (Kosovo)</i>	Evaluation of fast-front overvoltages arising at a 20/0.4kV distribution transformer (Paper No. MED10/191) <i>P. Mikropoulos, T. Tsovilis, Z. Politis, A. Kagiannas (Greece)</i>
18:15	<i>End of Day 2</i>		
20:00	<i>Conference Gala Dinner</i>		

Wednesday, 10 November 2010

08:00	Registration		
08:45	Conference announcements		
09:00	Keynote lecture <i>Chairperson: Prof. Gady Golan</i> <p style="text-align: center;">Modeling and control challenges in future sustainable power systems</p> <i>Prof. Jovica Milanovic, The University of Manchester, United Kingdom</i>		
09:30	Technical sessions		
09:30	Electricity markets II <i>Chairperson: Prof. Manuel Matos</i> Simulation methodologies and modeling of co-optimized energy and reserve electricity markets (Paper No. MED10/226) <i>A. Papalexopoulos, R. Frowd (USA), M. Aslanoglou, A. Vlachos, K. Sakellaris (Greece)</i>	Renewable energy sources and storage II <i>Chairperson: Dr. Andreas Stavrou</i> Techno-economic analysis of CSP plants for isolated Mediterranean power systems (Paper No. MED10/111) <i>A. Poullikkas, I. Hadjipaschalis, G. Kourtis (Cyprus)</i>	Power quality systems III <i>Chairperson: Dr. Stefanos Tsitomeneas</i> Application of a line constant impedance magnitude method for the investigation of the accuracy of a mathematical voltage index (Paper No. MED10/181) <i>A. Polycarpou, T. Zaos (Cyprus)</i>
09:45	Validation model for generation investment in an oligopoly electricity market (Paper No. MED10/149) <i>N. Dahlan, D. Kirschen (United Kingdom)</i>	Utilization of solar/thermal power plants for hydrogen production and application in the transportation sector (Paper No. MED10/113) <i>C. Chasos, G. Karagiorgis, C. Christodoulou (Cyprus)</i>	Correlation between uncertainties in system model parameters and distribution of critical electromechanical modes (Paper No. MED10/154) <i>F. Alhasawi, J. Milanović (United Kingdom)</i>
10:00	Building generation expansion plan – A decision aid approach to use in competitive electricity markets (Paper No. MED10/104) <i>A. Pereira, J. Saraiva (Portugal)</i>	Parametric comparative study for the installation of solar dish technologies in Cyprus (Paper No. MED10/110) <i>A. Poullikkas, G. Kourtis, I. Hadjipaschalis (Cyprus)</i>	Active infeed converter with integrated power-quality improvement applying pole-restraining control (Paper No. MED10/229) <i>V. Staudt, C. Heising, R. Bartelt, M. Oettmeier (Germany)</i>
10:15	Wavelet-neuro-fuzzy approach for predicting short-term electricity prices in a competitive market (Paper No. MED10/103) <i>H. Pousinho, V. Mendes, J. Catalão (Portugal)</i>	Testing of a ground coupled heat pump (Paper No. MED10/132) <i>G. Florides, P. Pouloupatis, V. Messaritis (Cyprus)</i>	A new nonlinear dynamic output voltage controller for power dc/dc boost converters (Paper No. MED10/141) <i>G. Konstantopoulos, A. Alexandridis (Greece)</i>
10:30	Impact of increased RES penetration on the operation of the Greek electricity market (Paper No. MED10/216) <i>C. Simoglou, P. Biskas, A. Bakirtzis (Greece)</i>	Trends for stable power supply using CSP technologies (Paper No. MED10/138) <i>B. Pulvermüller (Germany)</i>	Voltage impact of multiple distributed RES on the distribution network in Cyprus (Paper No. MED10/209) <i>A. Armenakis, N. Kouyialis, H. Karavas (Cyprus)</i>
10:45	Coffee		

Wednesday, 10 November 2010

11:15	<p>Keynote lecture <i>Chairperson: Dr. Alex Papalexopoulos</i> On the electric power consumption minimization of terrestrial broadcasting systems and wireless mobile communication networks <i>Dr. John Sahalos, University of Nicosia, Cyprus and Aristotle University of Thessaloniki, Greece</i></p>	
11:45	<p align="center">Technical sessions</p>	
	<p>Transmission systems and substations II <i>Chairperson: Dr. Alexis Polycarpou</i></p>	<p>Electric machines and drives II <i>Chairperson: Prof. Joao Tomé Saraiva</i></p>
11:45	<p>Analysis of electromagnetic interference problems proposed to be through an innovative Monte Carlo - neural network method (Paper No. MED10/228) <i>D. Micu, L. Czumbil, A. Ceclan, L. Cimpan (Romania), A. Polycarpou (Cyprus)</i></p>	<p>Experimental investigation of parameters influencing transformer excitation current (Paper No. MED10/139) <i>J. Olivares-Galván, M. Madrigal (Mexico), P. Georgilakis, A. Theocharis (Greece)</i></p>
12:00	<p>South-east European transmission systems operators' challenges (SEETSOC) (Paper No. MED10/187) <i>P. Liatsis (United Kingdom), F. Topalis, N. Harkioulakis, L. Ekonomou (Greece)</i></p>	<p>Efficient identification of synchronous machine parameters through the finite elements method (Paper No. MED10/115) <i>B. Singh, E. Kyriakides, A. Michaelides (Cyprus)</i></p>
12:15	<p>An introduction to wavelet synopses of electric power system measurements (Paper No. MED10/197) <i>P. Moutis (Greece)</i></p>	<p>Separation of no-load losses for distribution transformers using experimental methods: Two frequencies and two temperatures (Paper No. MED10/169) <i>J. Olivares-Galván, R. Escarela-Pérez, E. Campero-Littlewood (Mexico), P. Georgilakis (Greece)</i></p>
12:30	<p>Lightning risk assessment of a 170 kV GIS substation connected to the Hellenic transmission system through underground cables (Paper No. MED10/166) <i>P. Mikropoulos, T. Tsovilis, I. Manousaridis, G. Laloumis, A. Dramis (Greece)</i></p>	<p>Magnetizing inrush current effects on large transformer arrangements (Paper No. MED10/194) <i>P. Papadopoulos, C. Kaloudas, T. Papadopoulos, G. Metaxas, G. Papagiannis (Greece)</i></p>
12:45	<p>New concepts for automation of MV/LV substations: Functions and product solutions (Paper No. MED10/247) <i>J. Ruiz, I. Cuartango (Spain)</i></p>	<p>Switching state algorithm for space vector pulse width modulation (SVPWM) (Paper No. MED10/185) <i>V. Kumar, S. Rao (India)</i></p>
13:00	<p align="center">Lunch</p>	
14:30	<p align="center">End of Conference</p>	

HOTEL ACCOMMODATION:

Hotel Accommodation will be arranged through a travel agency. The Conference Secretariat has reserved sufficient rooms to accommodate the participants. For online registration (including accommodation) please visit conference website:

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	Before September 30, 2010 (new date: extended to October 10, 2010)	After September 30, 2010 (new date: after October 10, 2010)
Member IET - Authors	240€	280€
Non-Member IET	280€	320€
Student	120€	140€
Accompanying Person	80€	80€

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Optional Extras

- Conference Dinner on 7/11/2010 - €50
- Village night out on 8/11/2010 - €45
- Full day Excursion to Paphos on 7/11/2010 - €50
- Half day Excursion to Nicosia on 10/11/2010 - €28
- Buffet Lunch - €21

All authors whose papers are accepted must register (early registration) for the Conference in order to have their papers published in the Proceedings of MedPower'10 (at least one author for each paper).

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