



Applied Automation and Industrial Diagnostics Laboratory,

Faculty of Science and Technology, University of Djelfa 17000 DZ Algeria

URL: <http://www.univ-djelfa.dz/labo/laadi>

Program



The 2nd International Conference on Power Electronics and their Applications (ICPEA 2015)

Djelfa on 29-30 March 2015, Algeria



28/03/2015 : Registration (Hotel – Djelfa Downtown)	
29/03/2015	
8 h – 9 h 00	Welcome – Registration (Djelfa University)
9 h 00 – 09 h 30	Opening Ceremony (Saihi Mohamed Auditorium) Professor Ali Choukri, Dr Abdellah Kouzou, Dr Ahmed Hafaifa
09 h 40 – 10 h 20	Plenary Session 1 Smart Systems Professor Dr. Mahmoud El-Sherif Director Fiber Optics and Photonics Engineering Center Drexel University, Philadelphia, USA Chairs : Prof. Kamal Mohammedi and Dr Abdellah Kouzou
10 h 20 – 10 h 40	Coffee break
10 h 40 – 11 h 20	Plenary Session 2 Innovation in Renewable Energy Dr Fulcieri Maltini SMIEEE, PES, COMSOC Chairs : Prof. Mohamed Orabi and Prof. MS Boucherit





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29/03/2015 : Oral Sessions



	Session A	Session B
Chairs	Pr. Chaker K. and Dr. Karim SEBAA	Pr. Kamal GUESMI and Dr. Abdelkrim NAAS
11h20 - 11h40	ID 46. Khaldoune SAHRI, PIETRZAK-DAVID Maria and KHELOUI A/El Aziz, Hardware in loop methodologies for the control of dual-PMSM connected in parallel: FPGA implementation and experimentation	ID 36. Nacera. BAKOURI, Aouzellag Djamel, Ghedamsi Kaci, chekkal Samira, Direct voltage control of stand-alone DFIG.
11h40 - 12h00	ID 27. Ali. CHEBABHI, M.K. FELLAH, M.F. BENKHORIS, and M.A. KESSAL, Fuzzy logic controllers and three dimensional space vector modulation technique in the $\alpha\beta\gamma$ axes for three-phase four-wire four-leg sap	ID 45. Omar FEDDAOUI, Riad TOUFOUTI, Djamel LABED, and Salima EZIANE, Contribution of hybrid power generation system in djelfa city.
12h00 - 12h20	ID 70b. Hakima CHERIF, Menacer, B. Bessam and R. Kachida, Diagnosis of stator inter turns short circuit and stator voltage unbalance fault using fast fourier and discrete wavelet transforms	ID 73. Idir. ISSAD, Contribution to the study of a photovoltaic system with storage.





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	Session A	Session B
Chairs	Pr. Boucherit M. Seghir and Dr. Lakhdar GACEM	Dr. Slami SAADI and Dr. Karim SEBAA
12h20-13h00	ID 7. A. MOUALDIA, A. MEDJBER and A. KOUZOU, Direct torque control of an energy storage flywheel associated with a wind turbine based on the double fed asynchronous machine	ID 26. Ali. AKKA, Study of a decentralized source based on a SOFC
	ID 21. Mustapha Kamel TOUATI, Said SELLAMI, Independent control of the powers of doubly fed induction generator (DFIG) with fuzzy logic	ID 48. ADJOUDJ labiba, Fatiha LAKDJA, GHERBI Fatima Zohra and GUENTRI Hocine, Impact of solar generator on voltage stability and active losses of algerian network
	ID 40. A. KHALDI, E. BERKOUK.E and M.O MAHMOUDI, DTC method for induction machine fed by indirect matrix converter	ID 57. Amina BOUAKAZ, Chaâbane HAMOUDA , Potential of solar heat in the milk processing industry in Algeria
	ID 72. Imad MERZOUK, M. REZAU, and M. L. BENDAAS., Stator currents harmonic elimination of doubly fed induction machine supplied by distorted grid	ID 62. Nabila LOUAI, F.KHALDI, Economic and technical study of a hybrid system (PV/WIND) to provide electricity for a household in the north east of Algeria
	ID 85. Abderraouf BOUMASSATA, D. KERDOUN, Speed and reactive power control of a doubly fed induction machine based on a cycloconverter	ID 44b. Benyekhlef LAROUCI, Kada BOUFADEN and Abdelkader Sitayeb , Neural network predictive control of the system unified power flow controller (UPFC).
13h00 – 14h00	Lunch	





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29/03/2015 Afternoon



14 h 00 – 14h 30

Plenary Session 3

Power Supply Integration – Is it the way to go?

Professor Dr. Mohamed Orabi

APEARC Director, IEEE SM

Aswan Power Electronics Applications Research Center (APEARC), Aswan University Egypt

Chairs : Prof D. Berkani and Dr. A. Khalassi





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Chairs	Pr. Fulcieri Maltini and Dr. Mohamed ORABI	Dr. Lakhdar BESSISSA and Dr. Youcef SOUFI
14h30 - 14h50	ID 29. Ali BENACHOUR, M.O.MAHMOUDI, and E. BERKOUK, Study implementation of space vector modulation (SVM) for direct matrix converter	ID 66. M. BOUDIAF, M. MOUDJAHED, and M. RAHLI, Power system stability enhancement by STATCOM using sliding mode control and Lyapunov's method control
14h50 - 15h00	ID 67. M.M. REZAOUI, A. GAFAZI, I. MERZOUK, M. MAHMOUDI, and I. NEZLI, Field oriented control of induction motor using matrix converter [3x5] by PWM algorithm	ID 119. Aissa SOULI, Abdelhafid hellal and Slami SAADI, Transient stability analysis of a multi-machine power system with FACTS using matlab.
15h00 - 15h20	ID 103. Mostefa Kermadi, Madjid BERKOUK, Yakoub SAADI, Mohamed TADJINE, Fethi AKEL, Ali BENACHOUR, Islam ZIOUANI and Mohammed Faouzi NADJOU, Overview of Arduino development platform and its applications in control systems.	ID 130. Nassima TIDJANI, A. OUCHAR and M. KIOUS, A. HADJAJDJ, J. C. LE BUNETEL, Electromagnetic pollution reduction generated in a boost DC-DC converter for the control of electric power in electronic circuits.
15h20 - 15h40	ID 109. S. Hanafi, M-k. Fellah, A. Guebli, M-f. Benkhoris, Control of 7 cells DC/AC flying capacitor multicellular converter with nonlinear feedback decoupling control.	ID 154b. Abdallah ZEGAOUI, H. ALOUACHE, A. DELLALI, M. KELLAL and M. AILLERIE., Oracd modeling of distributed PV architecture feeding a PV-HVDC bus.
15 h 40 – 16 h 00	Coffee break	





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	Session A	Session B
Chairs	Dr. Karim SEBAA and Dr. Slami SAADI	Dr. Lakhdar BESSISSA and Dr. M. Boudiaf
16h00-16h40	ID 41. Nouredine HENINI, Karim SEBAA, Abdelhalim TLEMÇANI, A cross entropy method based SHEPWM for cascaded multilevel inverters.	ID 20. Abdelkader GOURBI, Mostefa Brahmi, New approach to study a hybrid photovoltaic system
	ID 43. Kheira HEMICI, Aicha AISSA BOKHTACHE, Djilali Abdelkader BELHADJ, and M.O. Mahmoudi, Modeling and robust control of three-phase multicell inverter	ID 47. Faiza KADDARI, Benyounes MAZARI, and Youcef MIHOUB, Power quality improvement using active filtering with SMC, STF and fuzzy logic
	ID 110. Fethi.OUNIS, Nouredine.GOLÉA, Constrained model predictive control of Cuk DC-DC power converter. Algeria.	ID 122. Mohamed Nassim KRAIMIA, Mohamed ZELLAGUI, and Mohamed BOUDOUR, Harmonic Analysis on Power System in the Presence of Thyristor Controlled Series Compensation under Non Sinusoidal Condition
	ID 136. M. CHELALI, K. HALBAOUI and A. KOUZOU, Experimental results for a multi cellular serial Converters for training purposes	ID 135. Mohamed ELBAR, A.KOUZOU and M.O. MAHMOUDI. Fuzzy controller based 3level 4wires shunt active filter for quality improvement under unbalanced conditions
	ID 31b. H. AOUZELLAG, K. Iffouzar, K. Ghedamsi and D. Aouzellag, Adaptive fuzzy pi controller, three levels dc/ac and dc/dc converter for hybrid vehicle.	ID 142. K. Hachani, A. Kouzou and D.Mahi, Constraints of the Shunt Active Power Filter p-q Theory Control





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Chairs	Pr. Sayah Houari and Dr Cherroun L	Pr. Haddadi M. and Dr. M. Boudiaf
16h00-16h40	ID 105. Mokhtar AMER, Abdallah Miloudi and Mostefa Amara, Fuzzy logic based adaptation mechanism for mutual MRAS sensorless vector control of induction motor drives.	ID 131. Mohamed Rida BENGOURINA, Mostefa Rahli, Saadi Slami, Control of a shunt active filter with direct control power technique based on virtual flow.
	ID 13b. Djamel NEKKAR, Deboub Raouf, Abadlia Issam, Different PID controllers for variable-speed induction motor	ID 58. Abdellatif MAHAMMEDI, N. KHENFER, Optimal combination of a wind/photovoltaic hybrid
	ID 94b. F. KHAMMAR, N. E. DEBBACHE, Comparative Study Between Intelligence Techniques applied To Control The Asynchronous Machine.	ID 63. Bilal TAGHEZOUIT, Taghezouit, Kamel Abdeladim, Amar Hadj Arab, Meteorological data analysis under labview for renewable energy application
	ID 1244b. Aissa BEZZOU, Abdelhalim KESSAL, Farida MAZOUZ, Contribution to Development Control On Slippery By Mode - On Application Boost chopper-	ID 88. Abderrezzaq ZIANE, Abdelaziz RABEHI, Mohamed Amrani , and Abdelmalek Douara, Drift-diffusion modeling to study the effect of temperature on solar cells characteristics
	ID 33b. SAIB Samia, GHERBI Ahmed, Modeling and simulation of grid connected hybrid system (photovoltaic/battery)	ID 2b. Ismail ZIANE, Amel Graa, Farid Benhamida, Yacine Salhi., Environmental solution for large scale power systems using quadratic programming





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Chairs	Dr. K. Laroussi and Mr. B.S Khaldi	Dr. Ahmed Hafaifa and Dr. D. Djoudi
16h00-16h40	ID 84. Belkacem Bekhiti, Bachir Nail, Abdellah Kouzou, Takieddine Beloudah, Adaptive sensorless control of a feedback linearised induction motor via extended kalman filter	ID 89. Abdelaziz RABEHI, GUERMOUI Mawloud, Djelloul DJAFER, Mohamed ZAANI, Radial basis function neural networks model to estimate global solar radiation in semi-arid area (case study ghardaia city)
	ID 55b. LILIA. BOUKARANA, L. M. BENDAAS, Study and modeling of an inverter with two and three levels of tension structure NPC applied to the asynchrone machine.	ID 100b. Omar FEZAZI, Ahmed Massoum, Adaptive control with reference model of a doubly fed induction generator for wind turbine with sliding mode.
	ID 60b. A. SAIBI, M. O. Mahmoudi, EKF-based sensorless sliding mode control of permanent magnet synchronous motor	ID 126. R. ATTIA, A. KOUZOU, Model predictive current control for three phase inverter.
	ID 112b. Samir Abdelmalek, Linda Barazane, Abdelkader Larabi and Hocine Belmili, Estimation and Fault Diagnosis of Stator Current Sensors for a DFIG	





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08 h 40 – 09h 10	<p>Plenary Session 4</p> <p>Supply Chain Resource Sustainability</p> <p>Dr Fulcieri Maltini</p> <p>SMIEEE, PES, COMSOC</p> <p>Chairs : Dr. A. Khalassi and Dr. Abdellah Kouzou</p>
09 h 10 – 09h 40	<p>Plenary Session 5</p> <p>Hybrid Renewable Energy Systems for Integrated Power Production</p> <p>Professor Kamal Mohammedi</p> <p>Head of MESONexusTeam, Modelling, Simulation and Optimization of Alternative and Sustainable Systems, Faculty of Engineering, M. Bougara University, Boumerdès 35000 DZ, Algeria</p> <p>Chairs : Dr. A. Khalassi and Dr. Abdellah Kouzou</p>
09 h 40 – 10 h 00	Coffee break





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Chairs	Pr. Fellah Mohammed-Karim and Dr. Slami Saadi	Pr. Hadjeri Samir and Pr. Mostefa Rahli
10h00 - 10h20	ID 79. Abualkasim Bakeer, Mohamed A Ismeil, A. Kouzou and Mohamed Orabi, Sinusoidal carrier with maximum constant boost control for z-source inverter	ID 50. Yacine Salhi, Farid Benhamida, Ismail Ziane and Graa Amel, Generation scheduling problem using particle swarm optimization algorithm and GAMS
10h20 - 10h40	ID 141. Mohamed ALI MOUSSA, M.N BENALLAL, Abdellah KOUZOU, Bachir BELMADANI, The influence of the length of the windings on the values of overvoltages (Expérimental study of a PWM controlled three-phase asynchronous motor)	ID 51. Yacine Salhi, Farid Benhamida, Ismail Ziane and Graa Amel, The impact of wind energy in the economic dispatch using particle swarm optimization
10h40 - 11h00	ID 64b. S. MERADI, M. Tadjine, M. S. Boucherit, and k. Benmansour, Robust luenberger observer design for hybrid behavior of flying capacitor multicell converter.	ID 68. M. MOUDJAHED, M. BOUDIAF, and I. BEKKI, Intelligent control schemes for IPFC based damping controllers in inter-area power system
11h00 - 11h20	ID 146b. Aicha AISSA BOKHTACHE, A. ZEGAOU, Kheira HEMICI, MS. BOUCHERIT and MO. MAHMOUDI, Modeling and simulation of lamp discharge -electronic ballast system using a half bridge inverter for water purification.	ID 74. Mohamed El Amine SLIMANI, Amirat Madjid, Bahria Sofiane, Improvement and development of a model of photovoltaic-thermal hybrid air collector
11h20 - 11h40	ID 218b. Khalil MOKHTARI, M. BENMILOUD and Atallah BENALIA, Hybrid predictive and input-output feedback linearization controllers design for half bridge multicellular inverter: comparative study	ID 95. Mohamed MOUSSAOUI, A MEZOUAR, L. BOUMEDIENE, K. BENYAHIA, and M. LAAGUEB, Control of Doubly Fed Induction Generator Based Wind turbine by Two Deferent Classical Controllers Under Grid Fault Conditions





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Chairs	Pr. Abdelhalim Tlemcani and Dr. A. Iratni	Pr. Ahmed Gueddime and Dr. Abdelkrim NAAS
11h40-12h40	ID 19. O. ZOUAID, L. NEZLI, Sliding mode control of a five-phase series- Connected two-motor drive.	ID 13. Ouarda. BARKAT, Badreddine. MAMRI, Theoretical investigation of transmission properties of multilayer structures containing negative index metamaterials
	ID 113. A.L. DOURARI, A. RABEHI, M.GHIBECH, L. MAZOUZ, A.OUANOUKI., Variable structure controller (VSC) of permanent magnet Synchronous motor (PMSM).	ID 56. Mostefa MAACHE MAACHE, Abedelouahed CHALA and Thierry DEVERS, Deposition of Tin Oxide Thin Films by Spin Coating for Optoelectronic Applications
	ID 138. Badreddine NAAS, Bachir NAAS, Lazhari NEZLI, Abbdellah KOUZOU, M.O. MAHMOUDI, Ahmed MASSOUM, and Dahmane HACHI, Application of Nelder-Mead algorithm in EKF for Speed Estimation of an Induction Motor	ID 117. Abdelkader KHADIR, A.GUEDDIM, M.K. ABDELHAFIDI, M. LAHOUAL, and N. SENGOUGA, DC simulation study of SiGe/Si HBT for different Ge-compositions trapezoidal profile
	ID 139. Bachir NAAS, Bachir NAAS, Badreddine NAAS, Ahmed Massoum, Dahmane HACHI, Lazhari NEZLI and Ahmed Lamine DOURARI, A Modified Direct Torque Control Twelve Sector of a Permanent Magnet Synchronous Machine Using Artificial Neural Networks	ID 123. Nawal BENYAHYA, H.MAZARI, N.BENSEDDIK, Z.BENAMARA, K.AMEUR, A.BOUMESJED, J.M. BLUET, and W.CHIKHAOU, Chacaterisation and simulation of the current-voltage characteristic in AlInN/GaN HEMT.
	ID 129b. Bilal TAGHEZOUIT, Bakelli Yahia, Gherbi Kila, and Hadj Arab Amar, Data acquisition & control under Labview for a photovoltaic water pumping system	ID 125. Aicha BOUMESJED, H. MAZARI, K. AMEUR, N. BENSEDDIK, Z. BENAMARA, and N. BENYAHYA, Numerical simulation of the electrical characteristics of a Schottky diode based on InxGa1-xN.





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Chairs	Dr. K. Laroussi and Dr. Karim SEBAA	Pr. K. Mohamedi and Dr. Lakhdar GACEM
11h40-12h40	ID 143. B. S. Khaldi, A Kouzou, MO. Mahmoudi, D. Boukhetala, Fuzzy logic based direct torque control of FivePhase Induction Motor with space vector modulation.	ID 76. Larbi NEHARI, Dey ZOUAOUI, M.N BRAHAMI and Mostéfa BRAHAMI, Solar tracking systems for GPV simulation and pratical approach.
	ID 30b. Koussaila IFFOUZAR, H. Aouzellag, K. Ghedamsi, D. Aouzellag, Modeling and analysis of an five phase induction motor fed by multi-level inverters in the normal and degraded mode.	ID 80. Souhila ZINE, Mazari Benyounes , Mohamed Amine BOUZID, Tayeb ALLAOUI, Sliding mode control of variable speed wind energy conversion systems
	ID 34b. Faiza BOUSSEKRA, Makouf Abdessalam, Merdj Fatima., Comparative study of adaptive backstepping control methods of PMSM drives.	ID 102. Abdelmalek DOUARA, BOUAZA Djelouli, Abdelaziz RABEHI, Abderrezzaq ZIANE, Ahmed BENTOUMI, I -V simulation of a HEMT-based ALGaN/GaN
	ID 67b. Dr Mohamed CHEBAANI, A. Golea and M. T. Benchouia, Direct torque control of induction motor drive by three-level inverter for torque ripple reduction.	ID 134. BelkacemTOUAL, L. MOKRANI and, M. BOUTOUBAT. Control and management of wind-solar hybrid power system connected to the network.
12h40 – 14h00	Lunch	





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Chairs	Pr. Rahmani Lazhar and Pr. K. Mohamedi	Pr. Zidi Sid Ahmed and Pr. Hadjeri Samir
14h00 - 14h20	ID 35. H. Aboub, R.Mechouma and B. Azoui, Analysis and Control of a Cascade Multi-MPPT of high power photovoltaic plant nine levels NPC three phase inverter topology	ID 42 S. BOUACHA, A. HADJ ARAB and N.BELHAOUAS, Modeling and simulation of 1MW grid connected photovoltaic system
14h20 - 14h40	ID 137. L. BESSISSA, N.CHARRAK, B.OUINI, L. BOUKEZZI, and D.MAHI, Modeling and Prediction of Outputs Inverter Using MLP Artificial Neural Networks.	ID 86. Mawloud GUERMOUNI, Abdelaziz RABEHI, Said BENKACIALI, Djelloul DJAFER, Multi Layer Perceptron Based Sunshine Duration for Global Solar Radiation Estimation
14h40 - 15h00	ID 141b. Mohamed Mounir REZAOUI, MO. MAHMOUDI, L. NEZLI, A.GAAFAZI, and I. MERZOUK, A comparative performance study between a matrix converter and a classical converter fed an induction machine.	ID 127. M.LAHOUAL, A.GUEDDIM, A.AATTAF, and B.SABEK, Optical gain spectra of gaasx(1-x)/ga as strained quantum wells.
15h00 - 15h20	ID 160b. Amina. HOCINE, Atallah BENALIA, Observability of multicellular converters series: an application to three cells converter	ID 49b. Aziz REMLI, Aouzellag Djamal, Ghedamsi Kaci, Stand alone PV system with battery energy storage.
15h20 - 15h40	ID 171b. Kaouthar. HADDADI, Atallah BENALIA, Algebraic observability of switched systems: an application to three-cells converter	ID 69b. Madiha MAAMIR, A. Betka, Energy management of photovoltaic array / battery / super capacitor hybrid power source for electric elevator.





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15 h 40 – 16 h 00	Coffee break
16 h 00 – 16h 30	Closing Ceremony

