

2014 International Conference on Electrical Sciences and Technologies in Maghreb (CISTEM 2014)

**Tunis, Tunisia
3-6 November 2014**

Pages 1-538



**IEEE Catalog Number: CFP14VVH-POD
ISBN: 978-1-4799-7301-9**

TABLE OF CONTENTS

RF101401562014 - OBSTACLE DETECTION FOR UNMANNED SURFACE VEHICLE	1
<i>Azzabi, Tarek ; Amor, Samir Belhaj ; Nejim, Samir</i>	
RF101491562014 - A HARDWARE ARCHITECTURE BINARIZER DESIGN FOR THE H.264/AVC CABAC ENTROPY CODING	8
<i>Hmida, Asma Ben ; Dhahri, Salah ; Zitouni, Abdelkrim</i>	
RF10265872014 - LPCS ENHANCEMENT IN ITERATIVE KALMAN FILTERING FOR SPEECH ENHANCEMENT USING OVERLAPPED FRAMES	12
<i>Mellahi, Tarek ; Hamdi, Rachid</i>	
RF102931472014 - TUNISIAN CITY NAME RECOGNITION BASED ON DYNAMIC BAYESIAN NETWORKS: FACTORIAL HIDDEN MARKOV MODEL CASE	17
<i>Jayech, Khaoula ; Mahjoub, Mohamed Ali ; Amara, Najoua Essoukri Ben</i>	
RF103591572014 - SPEAKER RECOGNITION SYSTEM BASED ON PITCH ESTIMATION	23
<i>Jdira, Makrem Ben ; Jemaa, Imen ; Ouni, Kais</i>	
RF103621672014 - FUZZY LOGIC VS. HMM FOR PHONEME RECOGNITION	28
<i>Fredj, Ines Ben ; Ouni, Kais</i>	
RF103661672014 - HIGH CAPACITY DIGITAL AUDIO WATERMARKING TECHNIQUE IN THE FREQUENCY DOMAIN EXPLOITING THE PROPERTIES OF A PSYCHOACOUSTIC MODEL	33
<i>Bellaaj, Maha ; Ouni, Kais</i>	
RF103691672014 - PARAMETERIZATION OF SPEECH SIGNALS FOR ROBUST VOICE RECOGNITION	39
<i>Zouhir, Youssef ; Ouni, Kais</i>	
RF103701672014 - A STUDY OF SPEECH RECOGNITION SYSTEM BASED ON THE HIDDEN MARKOV MODEL WITH GAUSSIAN-MIXTURE	43
<i>Hazem, Zied Ben ; Zouhir, Youssef ; Ouni, Kais</i>	
RF111741562014 - METHODOLOGY OF OPERATING SAFETY AND SUPERVISION OF A PRODUCTION SYSTEM	48
<i>Hammouda, Marwa Ben ; Lakhoua, Mohamed Najeh</i>	
RF111751562014 - METHODOLOGY OF ANALYSIS AND DESIGN OF A SCADA SYSTEM	56
<i>Glaa, Raja ; Lakhoua, Mohamed Najeh</i>	
RF112412562014 - GMI SENSOR DRIVEN BY DDS	63
<i>Zidi, Manel ; Asfour, Aktham ; Yonnet, Jean-Paul</i>	
RF112721172014 - PLANNING OF A GRAPHICS ON TV PROJECT OF AN ATHLETICS EVENT	67
<i>Maalej, Lotfi ; Lakhoua, Najeh ; Chakir, Ibtissem ; Battikh, Tahar ; Jabri, Imed</i>	
RF112911472014 - DC MOTOR CONTROL BASED ON EMBEDDED LINUX	74
<i>Araari, T. ; Jaziri, I. ; Charaabi, L. ; Jelassi, K.</i>	
RF112971472014 - ON THE ANALYSIS AND THE DESIGN OF MECHATRONIC SYSTEMS	80
<i>Salem, Jamel Ben ; Lakhoua, Mohamed Najeh ; El Amraoui, Lilia</i>	
RF113121572014 - DESIGN AND IMPLEMENTATION OF AN EMBEDDED DATA ACQUISITION BASED ON LINUX SYSTEM FOR SMART GRID	88
<i>Araari, T. ; Charaabi, L. ; Jelassi, K.</i>	
RF113361572014 - FLEXIBLE SOFTWARE SOLUTION FOR INTELLIGENT MULTI-AGENT MANUFACTURING SYSTEMS	93
<i>Mansour, Wassim ; Jelassi, Khaled</i>	
RF113371572014 - RFID TECHNOLOGY TO CONTROL MANUFACTURING SYSTEMS USING OPC SERVER	97
<i>Mansour, Wassim ; Jelassi, Khaled</i>	
RF113461572014 - SUPERVISORY CONTROL AND DATA ACQUISITION OF POWER DISTRIBUTION	101
<i>Fadhel Khelifa, Rihab ; Jelassi, Khaled</i>	
RF11631562014 - HIGH-FREQUENCY INVESTIGATION OF PLANAR TRANSFORMERS	109
<i>Ammouri, Aymen ; Belloumi, Hamed ; Salah, Tarek Ben ; Kourda, Ferid</i>	
RF12121212 - COMBINING RENEWABLE ENERGY AND VEHICLE TO GRID SOURCES FOR QOS IN EAAS CONCEPT FOR SMART GRIDS SYSTEMS	114
<i>Sendama, N.Benjamin ; Hayar, Aawatif ; Moutabir, Ahmed</i>	

RF12261862014 - A LOW-COST EXPERIMENTAL TEST BENCH FOR ELECTRONIC POWER DEVICES	119
<i>Mtimet, Sameh ; Kourda, Ferid ; Salah, Tarek Ben</i>	
RF12261862015 - INTEGRATION OF LARGE-SCALE PHOTOVOLTAIC SYSTEM IN THE DISTRIBUTION GRID UNDER PARTIALLY SHADING	125
<i>Khaterchi, Manel ; Belhadj, Jamel ; Elleuch, Mohamed</i>	
RF1262772014 - A COMPACT BANDPASS SUBSTRATE INTEGRATED WAVEGUIDE FILTER.....	130
<i>Nasri, Abdelkhalek ; Zairi, Hassen ; Gharsallah, Ali</i>	
RF131061462014 - FAULT DIAGNOSIS OF ELECTRICAL POWER TRANSFORMER BASED ON WATER CONTENT ANALYSIS USING BAYESIAN NETWORK.....	134
<i>Lakehal, Abdelaziz ; Chouaki, Karima ; Ghemari, Zine ; Kherrou, Fatma Zohra</i>	
RF131441562014 - VIBRATION SENSOR MECHANICAL SENSITIVITY IMPROVEMENT	139
<i>Ghemari, Zine ; Lakehal, Abdelaziz</i>	
RF131661562014 - DIRECT CURRENT MOTOR REAL TIME APPLICATION OF SENSOR AND ACTUATOR FAULTS DETECTION AND ISOLATION BASED ON STRUCTURAL RESIDUAL SPACE PARITY APPROACH	144
<i>Ben Hamed, Mouna ; Sbita, Lassaad ; Beni Hamed, Salah</i>	
RF132061562014 - ACTUATOR FAULTS ESTIMATION USING ADAPTIVE LUENBERGER BOND GRAPH OBSERVER	150
<i>Najari, Hajer ; El Harabi, Rafika ; Abdelkrim, Mohamed Naceur</i>	
RF133111572014 - BI-SPECTRUM ANALYSIS OF COUPLED HARMONICS AND ITS APPLICATION TO ROTOR FAULTS DIAGNOSIS	155
<i>Saidi, Lotfi ; Ben Ali, Jaouher ; Fnaiech, Farhat</i>	
RF13341572014 - EXPERIMENTAL ANALYSIS OF PLANAR SPIRAL INDUCTORS	164
<i>Ammouri, Aymen ; Belloumi, Hamed ; Salah, Tarek Ben ; Kourda, Ferid</i>	
RF13742152014 - FAULT DETECTION IN ELECTRICAL DRIVES - APPROACH SIGNAL	169
<i>Chahmi, Abdelghani ; Bendjebbar, Mokhtar ; Raïson, Bertrand</i>	
RF13752252014 - GENERATION OF ROBUST RESIDUALS BASED ON UNKNOWN INPUT OBSERVERS WITH OPTIMAL APPROXIMATE DECOUPLING	175
<i>Tahraoui, S. ; Meghebbar, A. ; Boubekeur, D.</i>	
RF141421562014 - ANALYSIS OF LIGHTNING SURGES BY FDTD IN HIGH VOLTAGE NETWORKS.....	181
<i>Abdi, A. ; Ouazir, Y.</i>	
RF141901562014 - SYSTEMIC DESIGN OF A REVERSE OSMOSIS DESALINATION PROCESS POWERED BY HYBRID ENERGY SYSTEM.....	188
<i>Ben Ali, Ines ; Turki, Mehdi ; Belhadj, Jamel ; Roboam, Xavier</i>	
RF142021562014 - MODELING OF CHEMICAL REACTION KINETICS USING HYPERGRAPH TOOLS	194
<i>Ajemmi, Henda ; El Harrabi, Rafika ; Abdelkrim, Mohamed Naceur</i>	
RF14259672014 - MODELING AND SIMULATION OF A CHEMICAL REACTOR SKHIRA PLANT CASE	200
<i>Mohamed, Sameh Ben ; Boussaid, Boumedyen ; Abdelkrim, M.Naceur ; Tahri, Charfeddine</i>	
RF143021472014 - MODELING OF A RADIAL FLUX PM ROTATING MACHINE USING A NEW HYBRID ANALYTICAL MODEL.....	206
<i>Aden, A. ; Amara, Y. ; Barakat, G. ; Hlioui, S. ; De La Barriere, O. ; Gabsi, M.</i>	
RF143451572014 - DYNAMIC MODELING OF AN AUTOMOTIVE POWER STEERING GRAPHIC TOOL: BOND GRAPH.....	211
<i>Dridi, Sihem ; Salem, Ines Ben ; El Amraoui, Lilia</i>	
RF1482762014 - 2D AND 3D MODELING OF THE APPEARANCE OF STREAMERS IN STRONG FIELDS TRAJECTORIES TRACING OF CHARGED PARTICLES	219
<i>Babaghayou, Fatiha ; Zegnini, Boubakeur</i>	
RF14991362014 - PARAMETERS ESTIMATION BASED ON TYPE I CENSORED SAMPLES USING A PARETO INTENSITY OF THE SECOND KIND.....	226
<i>Aloui, Ines ; Gasmî, Soufiane</i>	
RF151261462014 - DIELECTRIC PROPERTIES AND RELAXATION BEHAVIOR OF POLYIMIDE FILMS (PI).....	234
<i>Benabed, F. ; Seghier, T. ; Boudraa, S. ; Seghiour, A.</i>	
RF152011562014 - APPLICATION OF THE ANALYTICAL ARC PARAMETERS ON THE DYNAMIC MODELING OF HVDC FLASHOVER OF POLLUTED INSULATORS	238
<i>Hadjrioua, Farid ; Mahi, Djillali ; Slama, Mohammed El Amine</i>	

RF153401572014 - CHARACTERIZATION OF LABORATORY AGED MV XLPE CABLES USING DIELECTRIC LOSSES FACTOR MEASUREMENTS	243
<i>Mecheri, Yacine ; Medjdoub, Abdellah ; Boubakeur, Ahmed ; Boujema, Slimane</i>	
RF153531572014 - DIELECTRIC PROPERTIES OF ALUMINA BASED NANOFUIDS	247
<i>Bouzit, S.E. ; Ait Dads, H. ; Tagmouti, S. ; Outzourhit, A. ; Ait Ali, M.</i>	
RF153541572014 - NUMERICAL MODELLING FOR BIPOLAR CHARGE TRANSPORT IN POLYETHYLENE UNDER HIGH DC APPLIED VOLTAGE	250
<i>Boukhari, H. ; Rogti, F.</i>	
RF153892272014 - SOFT MAGNETIC MATERIALS FOR SWITCHED RELUCTANCE MACHINE: FINITE ELEMENT ANALYSIS AND PERSPECTIVE.....	255
<i>Rebahi, F. ; Bentounsi, A. ; Lebsir, A. ; Benamimour, T.</i>	
RF162402562014 - FAST ISLANDING DETECTION OF PV GRID CONNECTED INVERTERS	261
<i>Jebali Ben Ghorbal, Manel ; Ghzaïel, Walid ; Slama Belkhdja, Ilhem</i>	
RF16255472014 - IMPROVED LOW COST INDUCTION MOTOR CONTROL FOR STAND ALONE SOLAR PUMPING	269
<i>Miladi, M. ; Ben Abdelghani-Bemmani, A. ; Slama-Belkhdja, I. ; M'Saad, H.</i>	
RF16258472014 - COMPARATIVE STUDY OF TOPOLOGIES OF SINGLE PHASE STATIC CONVERTERS FOR GRID CONNECTED PV SYSTEMS.....	277
<i>Sakly, J. ; Ben Abdelghani-Bemmani, A. ; Slama-Belkhdja, I. ; Sammoud, H. ; Orabi, M.</i>	
RF162781172014 - MODELING AND SIMULATION OF PHOTOVOLTAIC WATER PUMPING SYSTEM.....	285
<i>Mariem, Khalfallah ; Arbi, Khelifi Mohamed ; Mouldi, Ben fredj ; Habib, Rehaoulia</i>	
RF162811272014 - STUDY OF NEW CONFIGURATION PHOTOVOLTAIC PUMPING SYSTEM	289
<i>Ouada, Mehdi ; Meridjet, Mohamed Salah ; Saad Saoud, Merwan ; Derradji, Nada</i>	
RF163211572014 - SOLAR RADIATION FORECASTING USING ARTIFICIAL NEURAL NETWORK FOR LOCAL POWER RESERVE	294
<i>Yan, Xingyu ; Abbes, Dhaker ; Francois, Bruno</i>	
RF163751772014 - SOILING EFFECT ON THE INCIDENCE OF SOLAR INRRADIANCE ON PHOTOVOLTAIC ARRAY PLANE.....	300
<i>Semaoui, S. ; Hadj Arab, A. ; Zeraia, H. ; Boudjeltia, E.K. ; Bacha, S.</i>	
RF172372462014 - LEAST SQUARES AND INSTRUMENTAL VARIABLE TECHNIQUES FOR GLOBAL IDENTIFICATION OF FRACTIONAL DIFFERENTIAL EQUATION.....	306
<i>Khadhraoui, Abir ; Jelassi, Khaled ; Trigeassou, Jean-Claude</i>	
RF17252372014 - PARAMETRIC IDENTIFICATION OF INDUCTION MACHINE CLASSIC AND FRACTIONAL PARK MODEL	311
<i>Hammami, Rahma ; Khadhraoui, Abir ; Jelassi, Khaled ; Ben Ameer, Imene</i>	
RF211551562014 - MODULATION DETECTION IN INTELLIGENT TRANSPORTATION SYSTEMS BASED ON COOPERATIVE MIMO NETWORKS OVER NAKAGAMI-M FADING	319
<i>Ben Chikha, Wassim ; Dayoub, Iyad ; Attia, Rabah</i>	
RF211941562014 - A COMPARATIVE STUDY OF TWO UWB PULSE DESIGN METHODS FOR NARROWBAND INTERFERENCE MITIGATION	325
<i>Ouardas, Asma ; Elahmar, Sid Ahmed ; Dayoub, Iyad</i>	
RF213091572014 - BLIND SPECTRUM SENSING IN COGNITIVE VEHICULAR AD HOC NETWORKS OVER NAKAGAMI-M FADING CHANNELS.....	331
<i>Souid, Imen ; Chikha, Haïthem Ben ; Attia, Rabah</i>	
RF21921262014 - JOINT SEMI-BLIND ESTIMATION OF CFO AND CHANNEL FOR OFDM SYSTEM.....	336
<i>Mokhtar, Besseghier ; Djebbar, Ahmed Bouzidi ; Iyad, Dayoub ; Abdelmalik, Taleb-Ahmed</i>	
RF221011362014 - CRITICAL CURRENT DENSITY DETERMINATION OF SUPERCONDUCTING MATERIAL.....	341
<i>Douine, Bruno ; Berger, Kevin ; Leveque, Jean</i>	
RF222961472014 - THE DESIGN OF MAGNETIC FLUX CONCENTRATION SUPERCONDUCTING MACHINES.....	346
<i>Ailam, El Hadj ; Benallal, Mohamed Nadjib ; Hocine, Abdelfettah ; Leveque, Jean ; Douine, Bruno ; Rezzoug, Abderrezak</i>	
RF22352462014 - CHARACTERIZATION TESTS AND ANALYSIS OF CROSS-LINKED POLYETHYLENE (XLPE) USED IN HIGH VOLTAGE CABLES INSULATION UNDER THERMAL CONSTRAINT	350
<i>Boukezzi, L. ; Boubakeur, A. ; Rondot, S. ; Jbara, O. ; Laurent, C.</i>	
RF223771872014 - STUDY AND TEST OF A NEW SUPERCONDUCTING INDUCTOR STRUCTURE FOR A SYNCHRONOUS MACHINE	358
<i>Alhasan, Rada ; Lubin, Thierry ; Leveque, Jean</i>	

RF223781872014 - POWER SYSTEM STABILITY IMPROVEMENT WITH SUPERCONDUCTING FAULT CURRENT LIMITER	365
<i>Didier, Gaetan ; Bonnard, Charles Henri ; Douine, Bruno ; Leveque, Jean</i>	
RF2250272014 - AN IMPROVED LLC RESONANT INVERTER FOR INDUCTION HEATING APPLICATIONS	371
<i>Khemakhem, Amira Zouaoui ; Kourda, Ferid</i>	
RF2257472014 - STUDY, SIMULATION AND BUILDING OF SEPIC CONVERTER FOR LED LIGHTING	378
<i>Seddiki, Kais ; Kourda, Ferid</i>	
RF231121462014 - THE USE OF WAVELETS FOR THE MONITORING AND DIAGNOSTIC OF SURFACE STATE OF HV POLLUTED INSULATORS.....	386
<i>Chaou, A.K. ; Mekhaldi, A. ; Moula, B. ; Tegar, M.</i>	
RF23521572014 - APPLICATION OF FIREFLY ALGORITHM ON THE SHEPWM STRATEGY FOR THE MULTILEVEL INVERTERS	394
<i>Ould Cherchali, N. ; Tlemcani, A. ; Morsli, A. ; Boucherit, M.S. ; Barazane, L.</i>	
RF23671672014 - A NEW APPROACH FOR GENERATING COMPACT THERMAL MODELS.....	400
<i>Lagha, Hajer ; Chazal, Herve ; Belmabrouk, Hafedh</i>	
RF261041362014 - ANALYTICAL MODELING OF DOUBLE CAGE ROTOR INDUCTION MOTORS IN HEALTHY AND BROKEN BARS CONDITIONS.....	407
<i>Boughrara, Kamel ; Ibtouen, Rachid</i>	
RF262981472014 - TORQUE-SPEED CHARACTERISTIC DETERMINATION OF AN EXCITED DOUBLY SALIENT MACHINE (DSPM)	415
<i>Harkati, N. ; Moreau, L. ; Zaim, M.E. ; Charpentier, J.F.</i>	
RF263431572014 - FINITE ELEMENT CALCULATION OF THE DQ-AXES INDUCTANCES AND TORQUE OF SYNCHRONOUS RELUCTANCE MOTOR.....	421
<i>Tahi, S. ; Ibtouen, R.</i>	
RF263711672014 - NEW LINE-STARTING METHOD OF SYNCHRONOUS MOTORS NOT HAVING DAMPING WINDINGS.....	426
<i>Debbah, N. ; Ibtouen, R. ; Amara, Y.</i>	
RF271821562014 - CONTROL RECONFIGURATION STRATEGY FOR DOUBLY FED INDUCTION MACHINE PUMPED STORAGE UNIT UNDER BALANCED GRID FAULTS	431
<i>Damdoum, A. ; Slama-Belkhodja, I. ; Debbou, M. ; Pietrzak-David, M.</i>	
RF271891562014 - DETECTION TIME FOR DETERMINISTIC AND STOCHASTIC SYSTEMS WITH UNKNOWN INPUTS.....	439
<i>Houiji, Marwa ; Hamdaoui, Rim ; Aoun, Mohamed</i>	
RF272422562014 - OPTIMIZATION FOR A FAULT-TOLERANT AND MINIMUM LOSS CONTROL STRATEGY OF A FIVE-PHASE FLUX SWITCHING MACHINE UNDER OPEN-CIRCUIT FAULTS	446
<i>Ben Sedrine, E. ; Ojeda, J. ; Gabsi, M. ; Slama-Belkhodja, I.</i>	
RF27266972014 - APPLICATION OF FEATURE REDUCTION TECHNIQUES FOR AUTOMATIC BEARING DEGRADATION ASSESSMENT	452
<i>Ben Ali, Jaouher ; Saidi, Lotfi ; Mouelhi, Aymen ; Chebel-Morello, Brigitte ; Fnaiech, Farhat</i>	
RF273011472014 - DEFECTS ROTOR IDENTIFICATION BY MAGNETIC SPECTRUM ANALYZING IN A SQUIRREL-CAGE ASYNCHRONOUS MACHINE	458
<i>Seghiour, Abdellatif ; Seghier, Tahar ; Zegnini, Boubakeur</i>	
RF273882072014 - SIMULATION OF DEFECTS WITHIN CONVERTERS-MACHINES ASSOCIATIONS: ADVANTAGE OF THE MODELING AT THE COMPONENTS LEVEL USING CHDN MODEL	464
<i>Saadi, Janah ; Chami, Mouhcine ; Zakari, Abdelouahed</i>	
RF31081462014 - STUDY OF THE INFLUENCE OF AN ELECTROMAGNETIC FIELD CLOSE TO A HIGH-VOLTAGE LINE ON THE HUMAN BEING.....	470
<i>Nedjem, Zoubir ; Seghier, Tahar ; Hadjadj, Abdechafik</i>	
RF31101462014 - INFLUENCE OF LOAD IMPEDANCES ON THE QUALITY OF POWER LINE COMMUNICATION	476
<i>Bouassam, Hamid ; Rifi, Mounir ; Degardin, Virginie</i>	
RF31141462014 - A STUDY OF ELECTROMAGNETIC FIELD GENERATED BY HIGH VOLTAGE LINES USING COMSOL MULTIPHYSICS.....	480
<i>Ali Rachedi, B. ; Babouri, A. ; Berrouk, F.</i>	
RF31161462014 - ELECTROMAGNETIC INTERFERENCES AND COMMON MODE VOLTAGE GENERATED BY VARIABLE SPEED AC MOTORS.....	485
<i>Hasnaoui, Othman</i>	

RF31181462014 - EXPERIMENTAL STUDY ON THE EMI AND SWITCHING TIME EVOLUTION OF IGBT DEVICES AFTER OPERATING AGING TESTS	490
<i>Tlig, Mohamed ; Ben Hadj Slama, Jaleleddine ; Belaid, M.A</i>	
RF31811562014 - ANALYSIS AND MODELING OF THE MAGNETIC NEAR FIELDS EMITTED BY AN IGBT AND BY A POWER DIODE GENERIC RADIATING MODEL FOR ACTIVE COMPONENTS	495
<i>Labiedh, Walid ; Ben Hadj Slama, Jaleleddine</i>	
RF31931562014 - COMPARATIVE STUDY OF TWO INVERSE METHODS BASED ON NEAR-FIELD TECHNIQUE	501
<i>Labiedh, W. ; Shall, H. ; Ben Hadj Slama, J. ; Riahi, Z. ; Kadi, M.</i>	
RF3264872014 - DESIGN AND IMPLEMENTATION OF EMC FILTER DEDICATED TO POWER ELECTRONIC CONVERTERS	507
<i>Gharbi, Akram ; Hasnaoui, Othman</i>	
RF32831472014 - MODELING OF ELECTROMAGNETIC RADIATED EMISSIONS IN ELECTRONIC DEVICES BY EQUIVALENT SOURCES BASED ON HGAPSO METHOD	512
<i>Kihal, M-C. ; Moulai, H. ; Bensetti, M. ; Belkacem, F.T.</i>	
RF3485083 - A COMBINED TRACTION DRIVE AND SLOW BATTERY CHARGER FOR PLUG-IN HYBRID ELECTRIC VEHICLE APPLICATION	519
<i>Marzouk, M. ; Ferrieux, J.P. ; Frey, D. ; Sarrazin, B. ; Ruffeil De Oliveira, L. ; Derbey, A.</i>	
RF3485153 - CASE STUDIES OF TRANSFORMERS INVESTIGATIONS WITH DGA AND WINDING RESISTANCES	526
<i>Belmiloud, Mohamed ; Raison, Bertrand ; Rostaing, Gilles</i>	
RF3485847 - AGEING TEST BENCH FOR ELECTROLYTIC CAPACITORS IN THE CONTEXT OF ELECTRIC VEHICLES — ELECTRICAL AND THERMAL MODELING FROM REAL-TIME IDENTIFICATION VIEWPOINT	531
<i>Patin, Nicolas ; Cousseau, Romain ; Monmasson, Eric</i>	
RF3891262014 - ANALYSIS OF SHIELDING EFFECTIVENESS FOR VARIOUS TYPE OF MATERIALS	539
<i>Abdelli, A. ; Zergat, A. ; Oussaid, Rachid</i>	
RF3901262014 - EMI AND SWITCHING TIME EVOLUTION FOR POWER RF LDMOS IN CHOPPER APPLICATION AFTER ACCELERATED TESTS	546
<i>Belaid, M.A. ; Tlig, M. ; Ben Hadj Slama, J.</i>	
RF41481562014 - CONTROL OF TOW FIVE-PHASE SYNCHRONOUS MACHINE SERIES CONNECTED SUPPLIED THROUGH A FIVE ARMS INVERTER WITH ALTERNATE MODE	550
<i>Kesraoui, Hichem ; Benelghali, Seifeddine ; Trabelsi, Ramzi ; Mimouni, Mohamed Faouzi ; Outbib, Rachid</i>	
RF41721562014 - DIRECT TORQUE CONTROL OPTIMIZATION WITH LOSS MINIMIZATION OF INDUCTION MOTOR	557
<i>Tazerart, Farid ; Taib, Nabil ; Rekioua, T. ; Rekioua, D. ; Tounzi, Abdelmounaim</i>	
RF41781562014 - FPGA IMPLEMENTATION OF A DEDICATED SELF CONTROL STRATEGY FOR A DELTA INVERTER FED BDCM DRIVE	565
<i>Alouane, Asma ; Ben Rhouma, Asma ; Kheder, Adel</i>	
RF41961562014 - APPLICATION OF THE MAGNETO-MECHANICAL AND THERMAL MODEL TO STUDY THE LINEAR STEPPING MOTORS	573
<i>Zaouia, M. ; Benamrouche, N. ; Helali, K. ; Benyahia, N. ; Denoun, H.</i>	
RF4253372014 - HYBRIDIZATION OF A LINEAR ACTUATOR INTENDED FOR ROBOTICS APPLICATION	580
<i>Aloui, Helmi ; Jebahi, Radhia</i>	
RF4263772014 - INVESTIGATION OF THE HARMONIC CONTENT AND ITS IMPACT ON THE PERFORMANCE OF INDUCTION MOTOR	585
<i>Khomsy, C. ; Bouzid, M. ; Jelassi, K.</i>	
RF43231572014 - 2D-3D MAGNETIC EQUIVALENT CIRCUIT OF THE FLUX FOCUSING PERMANENT MAGNETS SYNCHRONOUS MACHINE	594
<i>Hlioui, S. ; Nedjar, B. ; Vido, L. ; Amara, Y. ; Gabssi, M.</i>	
RF43421572014 - ANALYSIS AND CORRECTION OF THE STATOR RESISTANCE VARIATION BASED ON THE FUZZY LOGIC ESTIMATOR	601
<i>Mouna, Essaiech ; Kamel, Jemli</i>	
RF43731772014 - DPLL INDUCTION MOTOR SPEED CONTROL: STABILITY AND PARAMETER VARIATION ANALYSIS	608
<i>Beni Hamed, Salah ; Ben Hamed, Mouna</i>	
RF43741772014 - LYAPONOV FUNCTION BASED SIMULTANEOUS STATE AND PARAMETER ESTIMATION IN EXCITED DC MOTOR DRIVE	615
<i>Beni Hamed, Salah ; Ben Hamed, Mouna</i>	

RF43811872014 - BACK TO BACK TESTS SIMULATIONS OF AN INTERIOR PERMANENT MAGNET MACHINE	623
<i>Amah-Tchiou, M. ; Lecointe, J-Ph ; Lacaze, A. ; Solcan, L.</i>	
RF43872072014 - MODELING AND PROTOTYPING OF AXIAL FLUX PERMANENT MAGNET MACHINE FOR SMALL WIND TURBINE	631
<i>Dhifli, M. ; Bali, H. ; Laoubi, Y. ; Verez, G. ; Amara, Y. ; Barakat, G.</i>	
RF51221462014 - OPTIMAL LOAD FREQUENCY CONTROL IN INTERCONNECTED POWER SYSTEM USING PID CONTROLLER BASED ON PARTICLE SWARM OPTIMIZATION	638
<i>Kouba, Nour EL Yakine ; Mena, Mohamed ; Hasni, Mourad ; Boussahoua, Bouziane ; Boudour, Mohamed</i>	
RF51301462014 - ASSESSMENT OF POWER SYSTEM TRANSIENT STABILITY USING SHUNT FACTS DEVICES: SVC AND TCBR	646
<i>Messalti, Sabir ; Gherbi, Ahmed ; Belkhiat, Saad</i>	
RF51461562014 - PARTICLE SWARM OPTIMIZATION BASED REACTIVE POWER PLANNING FOR VOLTAGE STABILITY IMPROVEMENT	652
<i>Amrane, Y. ; Boudour, M.</i>	
RF51511562014 - OPTIMIZATION OF GROUNDING SYSTEM OF 60/30 KV SUBSTATION OF AIN EL-MELH USING PARTICLE SWARM	659
<i>Alik, B. ; Kemari, Y. ; Bendekkiche, N. ; Tegar, M. ; Mekhaldi, A.</i>	
RF51951562014 - QUANTIFICATION OF OPERATING POWER RESERVE THROUGH UNCERTAINTY ANALYSIS OF A MICROGRID OPERATING WITH WIND GENERATION	667
<i>Buzau, Madalina-Mihaela ; Francois, Bruno</i>	
RF52761172014 - NEW APPROACH FOR SOLVING ECONOMIC LOAD DISPATCH PROBLEM	675
<i>Gherbi, Yamina Ahlem ; Bouzeboudja, Hamid ; Lakdja, Fatiha ; Gherbi, Fatima Zohra ; Ould-Abdeslam, Djaffar</i>	
RF53051472014 - DETERMINING THE FREQUENCY BIAS FACTOR OF SECONDARY CONTROL IN THE TUNISIAN POWER SYSTEM	680
<i>Hamida, Adnene Haj ; Ben-Kilani, Khadija ; Elleuch, Mohamed</i>	
RF53301572014 - MODELING OF THE CORELESS TRANSFORMER AND RESPONSE TO MISALIGNMENT AND GAP VARIATION	688
<i>Jabri, Ihssen ; Ghodbane, Fethi ; Bouallegue, Adel ; Khedher, Adel</i>	
RF53551572014 - GENETIC ALGORITHMS BASED OPTIMAL LOAD SHEDDING WITH TRANSIENT STABILITY CONSTRAINTS	695
<i>Mosbah, Mustafa ; Hellal, Abdelhafid ; Mohammedi, Ridha djamel ; Arif, Salem</i>	
RF53571572014 - APPLICATIONS OF SHUNT FACTS CONTROLLER FOR VOLTAGE STABILITY IMPROVEMENT	701
<i>Berrouk, F. ; Rachedi, B.Ali ; Lemzadmi, A. ; Bounaya, K. ; Zeghache, H.</i>	
RF5571052014 - TCSC TUNING VIA ANT COLONY OPTIMIZATION FOR POWER SYSTEM STABILITY IMPROVEMENT	707
<i>Sebaa, Karim ; Tlemcani, Abdelhalim ; Abbadi, Takidine ; Mokdad, Cherif</i>	
RF579262014 - SYNTHESIS INTEGRATING WIND GENERATION AND FACTS OF NETWORK	713
<i>Adjoudj, Labiba ; Lakdja, Fatiha ; Gherbi, Fatima Zohra ; Ould Absallem, Djaffar</i>	
RF5961262014 - VIRTUAL SYNCHRONOUS GENERATORS DYNAMIC PERFORMANCES	719
<i>Aouini, Raouia ; Ben Kilani, Khadija ; Marinescu, Bogdan ; Elleuch, Mohamed</i>	
RF61021362014 - AN OVERVIEW OF ELECTRIC VEHICLE CONCEPT AND POWER MANAGEMENT STRATEGIES	725
<i>Mahmoudi, Chokri ; Flah, Aymen ; Sbita, Lassaad</i>	
RF61211462014 - STATIC ANALYSIS OF ISLANDED MICRO GRIDS: FOCUS ON RENEWABLE FRACTION AND COST OF ENERGY	733
<i>Turki, Hedia ; Ben Kilani, Khadija ; Elleuch, Mohamed</i>	
RF61371562014 - MODELING AND SIMULATION OF APPLIANCES SCHEDULING IN THE SMART HOME FOR MANAGING ENERGY	738
<i>Chaouch, Haithem ; Ben Hadj Slama, Jaleddine</i>	
RF61681562014 - WATER/ENERGY MANAGEMENT APPROACHES OF AN AUTONOMOUS WATER DESALINATION UNIT FED BY A HYBRID (PHOTOVOLTAIC-WIND) SYSTEM	743
<i>Turki, Mehdi ; Belhadj, Jamel ; Roboam, Xavier</i>	
RF61691562014 - A SURVEY ON MULTI-AGENT MANAGEMENT APPROACHES IN THE CONTEXT OF INTELLIGENT ENERGY SYSTEMS	751
<i>Ghribi, Khawla ; Sevestre, Sylvie ; Guessoum, Zahia ; Gil-Quijano, Javier ; Malouche, Dhafer ; Youssef, Anis</i>	
RF62392462014 - FAST EVENT DETECTION METHOD FOR RESIDENTIAL LOAD DEMAND SIDE MANAGEMENT	759
<i>Mouelhi, F. ; Sethom, H.Ben Attia ; Slama-Belkhodja, I.</i>	

RF64102392014 - MODELING AND PERFORMANCE IMPROVEMENT OF A METHOD FOR THE DISINFECTION OF WATER BY UV IRRADIATION AS A FUNCTION OF THE POWER OF THE LOW PRESSURE LAMP DISCHARGE MODE	766
<i>Ben Mustapha, Mounir ; Abdnnaceur, Hassen</i>	
RF64112392014 - A PULSED MODE RECTANGULAR ELECTRIC ALIMENTATION WITH APPLICATION TO WATER TREATMENT	774
<i>Ben Mustapha, Mounir ; Abdnnaceur, Hassen</i>	
RF71271462014 - COMPARATIVE STUDY OF MPPT TECHNIQUES FOR PV CONTROL SYSTEMS	779
<i>Jeddi, Nafaa ; El Amraoui Ouni, Lilia</i>	
RF71281462014 - DSPACE IMPLEMENTATION AND EXPERIMENTATION OF POWER FIELD ORIENTED CONTROL FOR MOTOR-PUMP FED BY INTERMITTENT RENEWABLE SOURCES	786
<i>Khiari, Wahib ; Ben Rhouma, Amine ; Turki, Mehdi ; Belhadj, Jamel</i>	
RF71381562014 - MPPT COMMANDS FOR A PHOTOVOLTAIC GENERATOR USING THE INCREMENTAL CONDUCTANCE METHOD AND THE FUZZY LOGIC COMMAND	792
<i>Elgharbaoui, Elmahdi ; Essadki, Ahmed ; Nasser, Tamou</i>	
RF71621562014 - SMART MICRO GRID POWER WITH WIRELESS COMMUNICATION ARCHITECTURE	798
<i>Elkhorchani, Habib ; Grayaa, Khaled</i>	
RF71641562014 - COMBINED APPROACH BETWEEN FLC AND PSO TO FIND THE BEST MFS TO IMPROVE THE PERFORMANCE OF PV SYSTEM	808
<i>Rahma, Ayat ; Khemliche, Mabrouk</i>	
RF71651562014 - MODELING OF A PV SYSTEM WITH INTERLEAVED BOOST CONVERTER	815
<i>Helali, K. ; Zaouia, M. ; Benamrouche, N.</i>	
RF72001562014 - EXPERIMENTAL CHARACTERIZATION AND ENERGY ANALYSIS FOR WATER PUMPING SYSTEM FED BY INTERMITTENT SOURCE	821
<i>Ben Rhouma, Amine ; Belhadj, Jamel ; Roboam, Xavier</i>	
RF72031562014 - SLIDING MODE CONTROL OF A PHOTOVOLTAIC-WIND HYBRID SYSTEM	827
<i>Benadli, Ridha ; Sellami, Anis</i>	
RF72432662014 - AN INTELLIGENT APPROACH BASED ON FUZZY LOGIC FOR IMPROVING AND OPTIMIZING THE PERFORMANCE OF A PHOTOVOLTAIC SYSTEM	835
<i>Layachi, Zaghba ; Borni, A. ; Bouchakeur, A. ; Terki, N.</i>	
RF72442662014 - A SAFE AND EASY METHODOLOGY FOR DESIGN AND SIZING OF A STAND-ALONE HYBRID PV-WIND SYSTEM	841
<i>Grouz, Faten ; Sbita, Lassaad</i>	
RF7251372014 - MODELING AND CONTROL APPROACHES OF A WIND GENERATOR	849
<i>Hamrouni, Nejib ; Jraidi, Moncef ; El Younsi, Sami ; Bouzaini, Karim ; Dhoub, Ahmed ; Cherif, Adnene</i>	
RF7271972014 - GRID SUPPORT CAPABILITIES OF DIRECT DRIVE WIND TURBINES DURING FAULTS FOR UNINTERRUPTED OPERATION MODE	857
<i>Allagui, Mehdi ; Hasnaoui, Othman B.k ; Belhadj, Jamel</i>	
RF72901472014 - NONLINEAR CONTROL FOR A GRID-CONNECTED WIND TURBINE WITH INDUCTION GENERATOR	864
<i>Ouassaid, Mohammed ; Elyaaloui, Kamal ; Cherkaoui, Mohamed</i>	
RF72991472014 - FABRICATION AND CHARACTERIZATION OF INVERTED HYBRID SOLAR CELLS BASED ON CONDUCTING POLYMERS AND NANOSTRUCTURED ZINC OXIDE	872
<i>Nkhaili, L. ; El kissani, A. ; Elmansouri, A. ; Elyagoubi, M. ; Outzourhit, A. ; Ait Ali, M.</i>	
RF73221572014 - DYNAMIC BEHAVIOR OF DOUBLY FED INDUCTION GENERATOR DURING NETWORK VOLTAGE DIPS	877
<i>Metatla, S. ; Mekhtoub, S. ; Ibtouen, R. ; Nesba, A.</i>	
RF73281572014 - MODELING AND ROBUST CONTROL OF A WIND GENERATOR	883
<i>Hamrouni, Nejib ; Ghobber, Amel ; Rabhi, Abdelhamid ; Hajjaji, Ahmed El</i>	
RF73291572014 - ANT COLONY FOR OPTIMAL DESIGN OF PM SYNCHRONOUS GENERATOR FOR DIRECT-DRIVE WIND TURBINES	889
<i>Mendaci, Sofiane ; Boulouh, Messaoud ; Gouaidia, Said ; Ladjimi, Abdelaziz</i>	
RF73411572014 - MODELING AND CONTROLLING OF A WIND GENERATOR BASED ON A PERMANENT MAGNET SYNCHRONOUS MACHINE	897
<i>Soulouh, Walid ; Hih, Hicham ; Faitah, Khalid</i>	
RF73491572014 - MODELING, CONTROL AND SIMULATION OF A GRID CONNECTED PV SYSTEM	903
<i>Abdallah, Ibrahim Ben ; Jraidi, Moncef ; Hamrouni, Nejib ; Cherif, Adnene</i>	

RF73631672014 - DIRECT TORQUE AND REACTIVE POWER CONTROL OF GRID CONNECTED DOUBLY FED INDUCTION GENERATOR FOR THE WIND ENERGY CONVERSION	911
<i>Tamalouzt, Salah ; Rekioua, Toufik ; Abdessemed, Rachid</i>	
RF73831972014 - REALIZATION OF A PHOTOVOLTAIC CHAIN WITH A CHOPPER CONTROLLED BY A MICROCONTROLLER PIC 18F4550	918
<i>Boucherit, H. ; Sahnine, S. ; Boukhelifa, A. ; Benmansour, K.</i>	
RF73852072014 - COMPARATIVE STUDY OF MAXIMUM POWER POINT TRACKING METHODS OF PHOTOVOLTAIC SYSTEMS	923
<i>Drir, Nadia ; Barazane, Linda ; Loudini, Malik</i>	
RF73862072014 - FUZZY VECTOR CONTROL OF ISOLATED INDUCTION GENERATOR TAKING THE SATURATION EFFECT INTO ACCOUNT	928
<i>Meddouri, Soufiane ; Idjarene, Kassa ; Aberbour, Adel</i>	
RF7951262014 - PREDICTION OF SOLAR RADIATION IN BEJAIA CITY USING NEURAL NETWORK (MLP)	935
<i>Asradj, Z. ; Alkama, R.</i>	
RF81071462014 - MODELLING AND SIMULATION FOR VARIABLE SPEED WIND ENERGY CONVERSION SYSTEMS BASED ON DOUBLY-FED INDUCTION GENERATOR	939
<i>Amor, Walid Ouled ; Ghariani, Moez</i>	
RF81521562014 - 1D THERMAL MODELLING OF PMSM INTENDED FOR AN ELECTRIC VEHICLE'S POWERTRAIN	945
<i>Jebahi, Radhia ; Ayadi, Moez ; Aloui, Helmi ; Neji, Rafik</i>	
RF83601572014 - INDUCTION MACHINE FINITE ELEMENT MODEL FOR FIELD-ORIENTED CONTROL IN ELECTRIC VEHICLE POWER TRAIN	950
<i>Hachicha, Mohamed Radhouan ; Ghariani, Moez ; Neji, Rafik</i>	
RF91001362014 - A ROBOT MANIPULATOR DYNAMIC MODELING AND LINEARIZING CONTROL	961
<i>Awatef, Azaza ; Mouna, Ben Hamed ; Sbita, Lassaad</i>	
RF91111462014 - UNKNOWN INPUT OBSERVER BASED FLOW RATE AND LIQUID LEVEL ESTIMATION FOR A QUADRUPLE TANK PROCESS	966
<i>Smida, Feten ; Said, Salim Hadj ; M'Sahli, Faouzi</i>	
RF91131462014 - PHASE SPACE SINGULARITIES IN SPEED FIELD ORIENTED CONTROL OF PMSM	972
<i>Souhail, Wahid ; Khammari, Hedi ; Mimouni, Mohamed Fouzi</i>	
RF91151462014 - CONTRIBUTION TO THE NEURAL NETWORK SPEED ESTIMATOR FOR SENSOR-LESS FUZZY DIRECT CONTROL OF TORQUE APPLICATION USING DOUBLE STARS INDUCTION MACHINE	978
<i>Mohammed, Hechelef ; Meroufel, Abdelkader</i>	
RF91171462014 - APPLICATION OF THE INTERNAL MODEL CONTROL METHOD FOR THE STABILITY STUDY OF UNCERTAIN SAMPLED SYSTEMS	986
<i>Othman, Chakra ; Cheikh, Ikbel Ben ; Soudani, Dhaou</i>	
RF91231462014 - ROBUST ITERATIVE LEARNING CONTROL OF LINEAR CONTINUOUS TIME SYSTEMS WITH DISTURBANCES	993
<i>Kouki, Olfa ; Mnasri, Chaouki ; Gasmı, Moncef</i>	
RF91391562014 - OUTPUT FEEDBACK CONTROL FOR BILINEAR SYSTEM USING LEGENDRE POLYNOMIALS	1000
<i>Warrad, Bassem Iben ; Bouafoura, Mohamed Karim ; Braïek, Naceur benhadj</i>	
RF91471562014 - BACKSTEPPING CONTROL FOR INDUCTION MACHINE WITH HIGH ORDER SLIDING MODE OBSERVER AND UNKNOWN INPUTS OBSERVER: A COMPARATIVE STUDY	1006
<i>Guezmil, A. ; Berriri, H. ; Sakly, A. ; Mimouni, M.F.</i>	
RF91501562014 - COMPARISON BETWEEN THREE TYPES OF ITERATIVE LEARNING CONTROL FOR NONLINEAR SYSTEMS: ON-LINE, OFF-LINE AND ON-LINE TAKING INTO ACCOUNT THE PREVIOUS ERROR	1014
<i>Bouakrif, Farah</i>	
RF91561562014 - NONLINEAR CONTROL APPLIED TO CHAOTIC SYSTEM USING SLIDING MODE	1020
<i>Chibani, Abdelilah ; Daaou, Bachir ; Gouichiche, Abdelmadjid ; Safa, Ahmed</i>	
RF91571562014 - ADAPTIVE NEURO-FUZZY INFERENCE SYSTEM INTO INDUCTION MOTOR: ESTIMATION	1025
<i>Boussada, Zina ; Ben Hamed, Mouna ; Sbita, Lassaad</i>	

RF91801562014 - ADAPTIVE HYSTERESIS CONTROLLER FOR THE SWITCHED RELUCTANCE MACHINES	1030
<i>Maamri, Hana ; Bahri, Imen ; Derbel, Nabil</i>	
RF91881562014 - MINIMUM TIME CONTROL SYNTHESIS FOR HIGH ORDER LTI SYSTEMS	1036
<i>Bichiou, Salim ; Bouafoura, Mohamed Karim ; Braiek, Naceur benhadj</i>	
RF92332162014 - PARAMETER ESTIMATION OF ONE WHEEL VEHICLE USING NONLINEAR OBSERVER	1042
<i>Ouasli, Nada ; Mehrez, Rached Ben ; Amraoui, Lilia El</i>	
RF92731172014 - ON THE OPERATING SAFETY AND THE ANALYSIS OF CONTROL-COMMAND SYSTEMS	1050
<i>Salah, Zaara ; Lakhoua, Mohamed Najeh ; Sellami, Anis</i>	
RF93061472014 - HANDWRITING VELOCITY MODELING BY SIGMOID NEURAL NETWORKS WITH BAYESIAN REGULARIZATION	1057
<i>Slim, Mohamed Aymen ; Abdelkrim, Afef ; Benrejeb, Mohamed</i>	
RF93081572014 - FUSION ARCHITECTURES WITH EXTENDED KALMAN FILTER FOR LOCATE WHEELCHAIR POSITION USING SENSORS MEASUREMENTS.....	1064
<i>Nada, Derradji ; Salah, Mounir Bousbia ; Bettayeb, Maamar</i>	
RF9542742014 - MODELING AND OUTPUT FEEDBACK DISTRIBUTED CONTROL FOR AN ABSORPTION PACKED COLUMN	1071
<i>Selatnia, M. ; Illoul, R. ; Boucherit, et M.S.</i>	
Author Index	