

## SPEEDAM 2008

### Accepted Papers

- TD\_063** *Aida S., Watanabe k., Komatsuzaki A., Miki I.* - (Japan)  
A 40kW switched reluctance motor for electric vehicle
- PEC399** *Alolah A. I., Debar N.* - (Saudi Arabia)  
A complete analysis of a duty cycle controlled single phase PWM AC chopper
- PEC241** *Dastfan A., Behrangi F.* - (Iran)  
A DC power supply based on matrix converter with reduced number of switches
- TS\_313** *Falvo M. C.* - (Italy)  
A deterministic-probabilistic methodology for planning studies on power systems of metro-transit transportation
- PEC289** *Bellini A., Bifaretti S.* - (Italy)  
A digital filter to synchronize renewable energy generation systems to the grid
- CD\_142** *Chatterjee D., Nag T.* - (India)  
A discrete model stator resistance compensated speed estimation technique with fuzzy rotor resistance estimator for sensorless vector controlled induction machine
- MEM253** *Tessarolo A., Luise F.* - (Italy)  
A finite element approach to harmonic core loss prediction in VSI-fed induction motor drives
- PS1064** *Carbone R.* - (Italy)  
A high performance rectifier for electrical power generation from marine currents
- TD\_297** *De Breucker S., Jacqmaer P., Tant P., Clement K., Verveckken J., Engelen K.* - (Belgium)  
A hybrid electrical go-kart with energy flow management as a student project
- CD\_258** *Chatterjee D., Kumar Ganguli A., Chakraborti R.* - (India)  
A model-based on-line rotor resistance estimation technique for rotor flux oriented control of induction machine with an improved flux observer
- PEC255** *Iman-Eini H., Farhangi S., Schanen J. L.* - (France)  
A modular AC/DC rectifier based on cascaded H-bridge rectifier
- TS\_416** *Vadiaty M., Asadi M., Rassaie M., Shariati M., Farzalizadeh S., Ebrahimi A.* - (Iran)  
A new approach for determination of the communication buses architecture based on IEC 6180 in substation automation system
- PEC037** *Najafi E., Vahedi A., Mahanfar A.* - (Iran)  
A new controlling method based on Peak Current Mode (PCM) for PFC
- CD\_280** *Moghaddasian M., Nategh Sh., Kianinezhad R., Seifossadat S. Gh.* - (Iran/France)  
A new direct torque control (DTC) method for dual three phase induction motors using a fuzzy inference system
- TS\_351** *Bracale A., Carpinelli G., Proto D., Varilone P.* - (Italy)  
A new method for spectrum estimation of non-stationary waveforms in railway systems
- CD\_317** *Youssef K. H., Wahba M. A., Yousef H. A., Sebakhy O. A.* - (Egypt)  
A new method for voltage and frequency control of stand-alone self-excited induction generator using PWM converter with variable DC link voltage
- MIS392** *Battistelli L., Chiodo E., Lauria D.* - (Italy)  
A new methodology for uncertainty evaluation in risk assessment
- PS1339** *Picardi C., Sgrò D.* - (Italy)  
A new modeling approach of electrical signals for power systems

- PSR131** *Valentini M., Munk-Nielsen S., Valderrey Sanchez F., De Estibariz U. M.* - (Denmark, Spain, Italy)  
A new passive islanding detection method for grid-connected PV inverters
- CD\_209** *Halbaoui K., Boukhetala D., Boudjema F.* - (Algeria)  
A new robust model reference adaptive control for induction motor drives using a hybrid controller
- CD\_277** *Nategh Sh., Moghaddasian M., Kianinezhad R., Seifossadat S. Gh.* - (Iran/France)  
A new sensorless field-oriented control for six-phase induction machines
- MIS125** *Bhan K., Kozorez O., Kozoriz V.* - (Ukraine/U.S.A.)  
A new superconductive levitation phenomenon and its possible applications capable to reduce the earth climate problem
- ED\_043** *Ronsisvalle C., Enea V.* - (Italy)  
A new version of monolithic ESBT® power actuator with increased current capability
- CD\_279** *Kianinezhad R., Alcharea R., Nahid B., Betin F., Capolino G. A.* - (Iran/France)  
A novel direct torque control (DTC) for six-phase induction motors with common neutrals
- BD\_038** *Divandari M., Momeni H., Rastegar H., Jazaeri M.* - (Iran)  
A novel dynamic observer and torque ripple minimization via fuzzy logic for SRM drives
- ACF152** *Pattnaik S., Kumar Panda A., Mahapatra K.K.* - (India)  
A novel improved soft switching PWM DC-DC converter
- MIS344** *Barca G., Moschetto A., Sapuppo C., Tina G.M.* - (Italy)  
A novel MPPT charge regulator for a photovoltaic stand-alone telecommunication system
- BD\_308** *Mirtalaei S. M.M., Moghani J.S., Malekian K., Abroshan M.* - (Iran)  
A novel sensorless control strategy for BLDC motor drives using a fuzzy logic-based neural network observer
- BD\_194** *Amiri H., Afjei E.* - (Iran)  
A novel sensorless technique for a new field assisted switched reluctance motor
- BD\_096** *Afjei E., Ataee S., Mazloomnezhad B.* - (Iran)  
A novel two phase switched reluctance motor with high starting torque
- PEC034** *Rosas J. C., Garcia P.M., Ramirez J.M.* - (Mexico)  
A novel two switches based DC-DC multilevel voltage multiplier
- CD\_327** *Tsuji M., Chen S., Hamasaki S., Ariyoshi K., Zhao X., Yamada E.* - (Japan)  
A novel V/f control of induction motors for wide and precise speed operation
- BD\_100** *Komatsuzaki A., Bamba T., Miki I.* - (Japan)  
A position estimation for switched reluctance motor at standstill
- CD\_400** *Gatto G., Marongiu I., Perfetto A., Serpi A.* - (Italy)  
A predictive direct torque control of asynchronous machines
- PS2068** *Wangpeng, Yan Xiangwu* - (China)  
A proposal for IEC flicker measurement using digital filters
- MIS301** *Petrecca G., De Carli M.* - (Italy)  
A review of hydrogen applications: technical and economic aspects
- BD\_397** *Jovanovic M., Dorrell G.* - (U. K.)  
A sensorless speed controller for brushless doubly-fed reluctance machines
- CD\_355** *Castellan S., Favot M., Menis R., Tessarolo A.* - (Italy)  
A simple fault-tolerant induction motor drive for dependable electrical auxiliary equipment of railway locomotives

- PEC406** *Ching-Ming Lai* - (Taiwan)  
A single phase PV inverter with instantaneous real power tracking control to achieve minimum DC-link capacitance
- MIS337** *Minutoli S., Musico P., Lo Vetere M.* - (Italy)  
A slow control and monitoring concentrator board for BaBar experiment at Stanford Linear Accelerator Center
- PS2413** *A. Prudenzi, Di Lillo M., Capuani F., Falvo C.* - (Italy)  
A software tool for energy audit activities in buildings
- MEM203** *Amelon N., Ait-Ahmed M., Benkhoris M. F.* - (France)  
A state space behavior model of an embedded synchronous generator
- MEM086** *Henze O., De Gersem H., Weiland T.* - (Germany)  
A stator coil model for studying high-frequency effects in induction motors
- BD\_197** *Schinnerl B., Gerling D.* - (Germany)  
A survey of different analytical methods to calculate the non-linear  $\Phi$ -I-characteristic of switched-reluctance-machines
- MEM003** *Brudny J.F., Godin Th.* - (Canada/France)  
A system of excitation with commutator modified in a system having rotating diodes: advantages, sizing and construction
- MIS325** *Perdigão M. S., Alonso J. M., Dalla Costa M. A., Saraiva E. S.* - (Portugal)  
A variable inductor MATLAB/Simulink behavioral model for application in magnetically-controlled electronic ballasts
- PEC331** *Belloni M., Bonizzoni E., Maloberti F.* - (Italy)  
A voltage-to-pulse converter for very high frequency DC-DC converters
- EEE028** *Irmak E., Bayindir R., Colak I., Sagiroglu S., Bal G.* - (Turkey)  
A web based real time speed control experiment on ultrasonic motor for educational purposes
- BD\_107** *Nica C., Enache M. A.* - (Romania)  
About operation characteristics of low power synchronous motors af frequency command
- CD\_415** *Bruzzese C., Santini E., Sciunnache D.* - (Italy)  
AC motor PWM control system based on x86 processor board and Linux-embedded OS
- PEC035** *Lozano M. Jose, Ramirez M.* - (Mexico)  
AC-AC converter for unbalanced supply
- PS3398** *Cecconi V., Di Dio V., Di Tommaso A. O., Di Tommaso S., La Cascia D., Miceli R.* - (Italy)  
Active power maximizing for wind electrical energy generating systems moved by a modular multiple blade fixed pitch wind turbine
- MR\_093** *Guo Y., Chen L.* - (China)  
Adaptive control of free-floating dual-arm space robot system with two objets in joint space
- CD\_316** *Youssef K. H., Wahba M. A., Yousef H. A., Sebakhy O. A.* - (Egypt)  
Adaptive fuzzy APSO based inverse tracking-controller for DC motors
- PEC315** *Youssef K. H., Wahba M. A., Yousef H. A., Sebakhy O. A.* - (Egypt)  
Adaptive fuzzy backstepping control of three phase AC/DC PWM converter for induction motor drives
- MR\_127** *Maouche A. R., Attari M.* - (Algeria)  
Adaptive neural controller of a rotating flexible manipulator

- CD\_295** *Vendrusculo E. A., Antenor Pomilio J.* - (Brazil)  
Adaptive speed estimator for single-phase induction motor
- CD\_005** *Kasmieh T.* - (Syria)  
Adaptive stator flux estimator for the induction machine direct torque control
- PEC384** *Tenca P., Borghetti G., Carpaneto M., Marchesoni M., Vaccaro L.* - (Italy)  
Adjustment of machine voltage in AC drives operating at constant power: consequences for the Inverter
- PS3358** *Carmeli M. S., Castelli Dezza F., Faranda R., Marchegiani G., Mauri M.* - (Italy)  
Advanced control strategy for PQ improvement in PV systems without energy storage device
- MEM353** *Buccella C., Cecati C., Di Domenico M.* - (Italy)  
An accurate equivalent circuit of high power/high frequency planar transformers using FEM
- BD\_102** *Kasa N., Iida T.* - (Japan)  
An accurate estimation method for position angles of salient-pole brushless DC motor
- MIS345** *Barca G., Moschetto A., Sapuppo C., Tina G.M.* - (Italy)  
An advanced SOC model and energy management for a stand-alone telecommunication system
- MEM324** *Bülent Ertan H., Burak Yalçiner L.* - (Turkey)  
An analytical approach for the calculation flux linkage including end effect for SR motors
- BD\_042** *Pavlitov C., Gorbounov Y., Rusinov R., Alexandrov A., Hadjov K., Dontchev D.* - (Bulgaria)  
An approach to identification of a class of switched reluctance motors
- EEE024** *De Tommasi G., Pironti A.* - (Italy)  
An educational open-source tool for the design of IEC 61131-3 compliant automation software
- TD\_273** *Tabbache B., Kheloui A., Hanini N.* - (Algeria)  
An electric differential system for a two-wheel mobile platform using direct torque control with adaptive flux and speed observers
- EEE191** *Pinheiro Lopes F., Soares Oliveira P., Reis L. P., Araújo R. E.* - (Portugal)  
An electric wheelchair as a tool for motivating students in power electronics
- CD\_349** *Kyeong-Hwa Kim* - (Korea)  
An MRAC-based adaptive current control scheme of an AC servo motor for performance improvement of a servo drive
- BD\_234** *Abroshan M., Malekian K., Milimonfared J.* - (Iran)  
An optimal direct thrust force control for interior permanent magnet linear synchronous motors incorporating field weakening
- PEC104** *Gragger J.V., Himmelstoss F. A.* - (Austria)  
Analysis and control of a two-stage boost converter
- CD\_216** *Weidinger T.* - (Germany)  
Analysis and modelling of common mode oscillations of electrical drive systems with active front end and long motor cables
- PEC183** *Thrimawithana D., Madawala U. K.* - (New Zealand)  
Analysis of split-capacitor push-pull parallel resonant converter in normal mode
- PEC389** *Jong Kwan Park, Kyu Min Cho, Ki Sun Cho, Won Seok Oh, and Chi Gak In* - (Korea)  
Analysis of the errors on the output voltage of inverter caused by switching dead time

- BD\_155** *Almandoz G., Poza J., Rodriguez M. A., Gonzales A.* - (Spain)  
Analytic model of a PMSM considering spatial harmonics
- MIS124** *Alexandersson S., Bangtsson H.* - (Sweden)  
Analytic prediction of electromagnetic behaviour
- TD\_187** *El Hayek J., Skarpetowski G.* - (Switzerland/Poland)  
Analytical model application on a converter for traction drives
- MEM299** *Khodja D. E., Chetate B.* - (Algeria)  
ANN based double stator asynchronous machine diagnosis taking torque change into account
- ED\_202** *Cosentino G., Ardita G.* - (Italy)  
Anomalous failures in low voltage p-channel power MOSFETs during the intrinsic diode recovery time
- PS1296** *Baghaee H. R., Sanjari J., Mirsalim S. M., Gharehpetian G. B.* - (Iran)  
Application of FDG in fault current limitation in distribution systems including DG units
- PS2179** *Merdan E., Petrean L., Munteanu C., Ilia M., Dale L.* - (Romania)  
Aspects regarding the power quality in distribution networks from the Electrica Transilvania Nord Company
- PEC058** *Oguchi K.* - (Japan)  
Asymmetrical multi-phase voltage methods of autotransformer-based boost rectifier systems with three-phase sinusoidal line currents
- PEC061** *Oguchi K.* - (Japan)  
Autotransformer-based 18-pulse rectifiers without using DC-side interphase transformers: classification and comparison
- MEM029** *Moehle A.* - (Germany)  
Balancing currents in parallel winding branches of super large drives
- MIS309** *Benhaddadi M., Olivier G.* - (Canada)  
Barriers and incentives policies to high-efficiency motors and drives market penetration
- PSR040** *Demirbas S., Demirtas M., Sefa I., Colak I.* - (Turkey)  
Building of W&S energy system
- MEM 201** *Deak C., Petrovic L., Binder A., Mirzaei M., Funieru B.* - (Germany)  
Calculation of eddy currents losses in permanent magnet synchronous machines
- MIS132** *da Câmara R. A., Cruz C.M.T., Torrico-Bascopé R.P.* - (Brazil)  
Center tapped preregulator based on three-state switching cells for UPS applications
- MEM085** *Ohashi S.* - (Japan)  
Characteristics of the linear synchronous generator using energy from mechanical vibration
- MEM074** *Jurca F., Martis C., Karoly B.* - (Romania)  
Claw-pole generator analysis using Flux 3D
- PS2145** *Rueckert B., Hofmann W.* - (Germany)  
CMV-minimized direct power control of the grid side connected converter in doubly fed induction generators
- MIS264** *Ale-Emran S.M., Forghani M., Abedi M., Gharehpetian G.B.* - (Iran)  
Combined operation of UPQC and fuel cell with common DC bus
- MIS265** *Ale-Emran S.M., Noroozian R., Abedi M., Gharehpetian G.B.* - (Iran)  
Combined operation of UPQC and photovoltaic with multi-input single-output DC/DC converter

- PS1087** *Dobriceanu M., Bitoleanu A., Popescu M., Subtirelu E., Enache S.* - (Romania)  
Combined protection and control equipment for applications in the medium-voltage area
- PEC346** *Serrao V., Lidozzi A., Solero L., Di Napoli A.* - (Italy)  
Common and differential mode EMI filters for power electronics in automotive applications
- PEC169** *Deblecker O., Moretti A., Vallée F.* - (Belgium)  
Comparative analysis of two zero-current switching isolated DC-DC converter for auxiliary railway supply
- PEC254** *Tessarolo A., Castellan S., Sulligoi G.* - (Italy)  
Comparative performance analysis of VSI and CSI supply solutions for high-power multi-phase synchronous motor drives
- PEC290** *Tongkhundam G., Konghirun M.* - (Thailand)  
Comparative studies between filter networks and half DC-link filter in long cable drives
- MEM207** *Eastham J. F., Cox T., Proverbs J.* - (U.K.)  
Comparison between plate and wound secondaries for linear induction motors with concentrated winding primaries
- CD\_286** *Beizama A.M., Echeverria J.M., Fontan L., Martinez-Iturralde M., Egaña I.* - (Spain)  
Comparison between pole-placement control and sliding mode control for 3-pole radial magnetic bearings
- CD\_335** *Consoli A., Scarcella G., Scelba G. Billè S. M., Costanzo D., Cucuccio A.* - (Italy)  
Comparison of low-cost-implementation sensorless schemes in vector controlled adjustable speed drives
- CD\_300** *Aarniovuori L., Laurila L., Niemelä M., Pyrhönen J.* - (Finland)  
Comparison of the induction motor simulation models - analytical and FEM - in drive system controlled with direct torque control
- TD\_282** *Fodorean D., Ruba M., Szabo L., Miraoui A.* - (France/Romania)  
Comparison of the main types of fault-tolerant electrical drives used in automobile applications
- PEC367** *Babaei E., Hosseini S H.* - (Iran)  
Comparison of two general control methods for 3-phase to 2-phase direct converters
- PEC088** *Borzabadi E., Bayati M., Esthtehardiha S.* - (Iran)  
Comparison PID control with fuzzy control method into improvement performance in the DC-DC converter
- CD\_237** *Kheldoun A., Chetate B.* - (Algeria)  
Compensation for the iron loss effect in EKF-based speed estimation of vector controlled induction motors
- BD\_047** *Enache M. A., Enache S., Dobriceanu M.* - (Romania)  
Considerations regarding dynamic regimes of reluctance synchronous motors
- PS1019** *Ghadimi A., Rastegar H., Keyhani A.* - (Iran)  
Control of distributed generation units in stand-alone industrial networks
- MR\_244** *Bidzoaca N. G., Petrisor A., Diaconu I., Bidzoaga E.* - (Romania)  
Control of shape memory alloy based tentacle robot
- BD\_363** *Ivanov S., Defosse V., Labrique F., Sente P.* - (Belgium/Romania)  
Control under normal and fault operation of a PM synchronous motor with physically and magnetically decoupled phases
- PEC156** *Dargahi M., Rezanejad M., Ranjbar A.* - (Iran)  
Controller design for output voltage improvement of DC/DC buck-boost converter

- CD\_414** *Hamouda R. M., AlZaid Z. R.* - (Saudi Arabia)  
Damping electro-mechanical oscillation by coordination between thyristor controlled braking resistors and power system stabilizer
- PEC419** *Chole A. M., Fernandes B.G.* - (India/U.K.)  
DC-DC power conversion using smart piezoelectric transformers
- TD\_105** *Ke Wang, Liming Shi, Yaohua Li, Jinwei He* - (China)  
Decoupled-control scheme of combined levitation-and-propulsion SLIM based on voltage vector selection
- MEM407** *Steinbrink J.* - (Germany)  
Design and analysis of windings of electrical machines
- PEC246** *Camur S., Arifoglu B., Beser E., Kandemir Beser E.* - (Turkey)  
Design and application of a novel structure and topology for multilevel inverter
- BD\_270** *Nezamabadi M. M., Rahmati A., Afjei E.* - (Iran)  
Design and implementation of a sensorless SRM drive with complete isolation
- BD\_013** *Niasar A. H., Vahedi A., Moghbeli H.* - (Iran)  
Design and implementation of sensorless control for four switch, three-phase brushless DC motor drive based on DSP technology
- PEC227** *Ling Su, Dongsheng Ma* - (U.S.A.)  
Design and optimization of integrated low-voltage low-power monolithic CMOS charge pumps
- MIS098** *Ahola J., Ahonen T., Särkimäki V., Kosonen A., Tamminen J., Tiainen R., Lindh T.* - (Finland)  
Design considerations for current transformer based energy harvesting for electronics attached to electric motor
- PEC039** *De Simone S., Adragna C., Spini C.* - (Italy)  
Design guideline for magnetic integration in LLC resonant converters
- MEM033** *Grabner C.* - (Germany)  
Design impacts to the acoustic noise emission of a converter driven squirrel cage induction motor
- MIS236** *Gaetani R., Verardi A., Mele E., Visconti P., Cavalera G.* - (Italy)  
Design of an electronic control system for overcurrent protection in a voltage regulator based on auto-transformer
- BD\_356** *Seo Jung-Moo* - (Korea)  
Design of BLDC motor for blower system taking into account vibration
- MIS103** *Zhao Yufeng, Yang Shiyan, Yang Wei* - (China)  
Design of microarc oxidation supply and study of switching losses and positive snubber
- BD\_357** *Khov M., Regnier J., Faucher J.* - (France)  
Detection of inter-turn short circuits faults in stator of permanent magnet synchronous motor by on-line parameter estimation
- PEC412** *Cavallaro C., Chimento F., Musumeci S., Raciti A., Santonocito C.* - (Italy)  
Devices power losses evaluation in series resonant converter assisted by a dedicated software tool
- CD\_059** *Braslavsky I. Ya., Kostylev A.V.* - (Russia)  
Digital prediction control of electrical drive using neural network
- PEC329** *Nedeljkovic D., Nemeč M., Drobnič K., Ambrožič V.* - (Slovenia)  
Direct Current Control of Active Power Filter without Filter Current Measurement

- MIS374** *Budig P. K.* - (Germany)  
Direct linear drives for the application in high vacuum
- MSA381** *Gaffney M., Nolan J. D., Piekarz R. L., Rivella O.* - (U.S.A./Italy)  
Direct to drive technology for electric propulsion
- PS1362** *Nunnari G., Spata A.* - (Italy)  
Does a negentropic approach allow predicting blackout in electric power transmission networks?
- CD\_382** *Gentile G., Ometto A., Rotondale N.* - (Italy)  
Double winding linear induction motor drives
- PEC031** *Sefa I., Altin N., Ozdemir S., Demirtas M.* - (Turkey)  
dSPACE based control of voltage source utility interactive inverter
- PS3266** *Ale-Emran S.M., Abedi M., Gharehpetian G.B., Noroozian R.* - (Iran)  
Dynamic operation of a photovoltaic system connected to distribution system
- MIS348** *Szumanowski A., Piórkowski P.* - (Poland)  
Dynamic ultracapacitor modelling based on bench tests
- PS3287** *Lughi V., Massi Pavan A., Quaia S., Sulligoi G.* - (Italy)  
Economical analysis and innovative solutions for grid connected PV plants
- CD\_205** *Carmeli M. S., Castelli Dezza F., Iacchetti M., Perini R.* - (Italy)  
Effect of the errors in the rotor position estimation on the stability of a Double Fed Induction Motor where the mechanical quantities are estimated by a MRAS
- ED\_044** *Jae-Eul Yeon, Cha-Kwang Kim, Myung-Sub Jung, Woo-Taek Kim, Kyu-min Cho, Hee-Jun Kim* - (Korea)  
Effectiveness of FRFET® MOSFETs for the CCFL Inverter in LCD TVs
- TS\_172** *Munteanu C., Diaconu C., Pop I. T., Topa V.* - (Romania)  
Electric and magnetic field distribution inside high voltage power stations from Romanian power grid
- PS1319** *Pawlik M., Buchta J.* - (Poland)  
Electrical drives in high-efficient coal-fired power plants
- EEE248** *Bullejos Martin D.* - (Spain)  
Electrical engineering in European higher education area
- PS3196** *Varadi A. Sz., Takacs J.* - (Hungary)  
Electricity generation from solid waste by plasma reactor
- BD\_214** *Ferkova Z., Franko M., Kuchta J., Rafajdus P.* - (Slovak Rep.)  
Electromagnetic design of ironless permanent magnet synchronous motor
- PS3263** *Menniti D., Pinnarelli A., Scordino N.I., Sorrentino N.* - (Italy)  
Emissions reduction and risk management in the operating reserve assessment in presence of wind generation plants
- PEC385** *Borghetti G., Carpaneto M., Marchesoni M., Tenca P., Vaccaro L.* - (Italy)  
Energy efficiency improvement in AC/DC/AC diode-clamped multilevel conversion systems
- MSA380** *D'Arco S., Monti A., Dougal R.* - (U.S.A.)  
Energy storage management as key issue in control of power systems in future All Electric Ships
- BD\_066** *Ishizuka N., Yoshizaki K., Komatsuzaki A., Miki I.* - (Japan)  
Estimation of initial rotor position for slotless PM motor



- MIS168** *Walter J., Ceglia G., Guzman V.* - (Venezuela)  
Evaluation of an automotive alternator as a power element for its use in an alternative energy system
- PEC228** *Górecki K., Zarebski J., Zarebski R.* - (Poland)  
Examining the usefulness of the method of averaged models in calculating characteristics of a buck converter at steady state
- ED\_411** *Cannone A., Cavallaro C., Chimento F., Musumeci S., Raciti A.* - (Italy)  
Experimental evaluation of parallel connection of super-junction MOSFET in PFC applications
- MEM249** *Boccaletti C., Duni G., Santini E.* - (Italy)  
Extended Thévenin equivalent circuits
- MIS225** *Carvalho I. S., Valcárcel D. F., Fernandes H., Carvalho B. B., Sousa J., Pironti A., De Tommasi G.* - (Portugal/Italy)  
Fast digital link for a tokamak current source control
- MEM200** *Elósegui I., Egaña I., Martínez-Iturralde M., García Rico A., Flórez J.* - (Spain)  
Fast sizing and simulation of multipole radial flux permanent magnet synchronous machines
- FDA076** *González-Contreras B.M., Rullán-Lara J. L.* - (Mexico)  
Fault diagnosis of the three-phase power inverter-induction motor set using bond graph
- BD\_221** *Gameiro N. S., Marques Cardoso J. M.* - (Portugal)  
Fault tolerant control strategy of SRM drives
- PS\_071** *Oprea C., Martis C.* - (Romania)  
Fault tolerant permanent magnet synchronous machine for electric power steering systems
- PEC170** *Vinnikov D., Laugis J., Lehtla T.* - (Estonia/ Russia)  
Feasibility study of 200 kW half-bridge and full-bridge DC/DC converters with 6.5 kV IGBT
- PSW112** *Campoccia A., Dusonchet L., Telaretti E., Zizzo G.* - (Italy)  
Financial measures for supporting wind power systems in Europe: a comparison between green tags and feed'in tariffs
- PEC333** *Abe S., Ninomiya T.* - (Japan)  
First-order transient response of DC-DC converter with peak current mode control for low-voltage application
- MEM070** *Abirami S., Ganambal I., Srihari T.* - (India)  
Flux switching motor modelling and simulation
- MEM046** *Werner U.* - (Germany)  
Foundation forces due to dynamic air gap torques of soft mounted asynchronous machines with flexible rotors in sleeve bearings – a calculation method
- TD\_371** *Fayazi A., Farhangi S., Asaei B.* - (Iran)  
Fuel consumption and emission reduction of a mild hybrid vehicle
- TD\_181** *Cheli F., Mapelli F. L., Manigrasso R., Tarsitano D.* - (Italy)  
Full energetic model of a plug-in hybrid electrical vehicle
- CD\_171** *Laakam M., Naceur M. A.* - (Tunisia)  
Fuzzy logic controller for high performances of induction motor
- PS1341** *Conti S., Greco A. M., Messina N.* - (Italy)  
Generators control systems for stable operation

- PEC359** *Silvestre J.* - (Portugal)  
Half-bridge bidirectional DC-DC converter for small electric vehicle
- PEC 304** *Shyu J. L.* - (Taiwan)  
Harmonic distortion reduction technique for uninterruptible power supplies with DC voltage boost technique
- PS1352** *Bracale A., Carpinelli G., Caramia P.* - (Italy)  
Harmonic impedance estimation using high resolution spectral analysis
- CD\_176** *Szentirmai L., Szarka T.* - (Hungary)  
High-tech drive control performance under supply voltage deviation from required quality
- TD\_213** *Wilhelm J., Janssen H., Mergel J., Stolten D.* - (Germany)  
Horizontal order picker driven by a direct methanol fuel cell
- TD\_188** *Cerovsky Z., Mindl P.* - (Czech Rep.)  
Hybrid electric cars, combustion engine driven cars and their impact on environment
- MEM212** *Drighiciu A., Manolea G., Petrisor A.* - (Romania)  
Hybrid Petri nets as a new formalism for modeling electrical drives
- TD\_332** *Camara M. B., Fodorean D., Gualous H., Miraoui A.* - (France)  
Hybrid sources control for electric drives traction applications
- TD\_198** *Oleschuk V., Griva G., Profumo F., Tenconi A.* - (Italy)  
Hybrid traction drive with symmetrical split-phase motor controlled by synchronized PWM
- CD\_217** *Gajdušek M., Damen A.A.H., van den Bosch P.P.J.* - (The Netherlands)  
Identification and precise decoupling of a 3-DOF planar actuator with manipulator
- MEM326** *Vyncke T. J., De Belie F. M. L. L., Boel R. K., Melkebeek J. A. A., Cheng Y., Lataire P.* - (Belgium)  
Identification of synchronous machines in the frequency domain by multisine excitation
- PSW149** *Brenna M., Foiadelli F.* - (Italy)  
Impact of the wind generation connected to weak grids
- PEC242** *Diaz N. L., Barbosa F. H., Trujillo C. L.* - (Colombia)  
Implementation of nonlinear power flow controllers to control a VSC
- PS3410** *Tina G., Capizzi G.* - (Italy)  
Improved lead-acid battery modelling for photovoltaic application by recurrent neural networks
- PEC081** *Kurokawa F., Sukita S.* - (Japan)  
Improvement of dynamic characteristics of digitally controlled DC-DC converter
- MSA114** *Matsui N., Kurokawa F., Shiraishi K.* - (Japan)  
Improvement of transient response of power turbine generator as energy saving on ship plant
- MEM193** *Sobczyk T. J.* - (Poland)  
Inductanceless model of salient-pole synchronous machines
- CD\_386** *Borghetti G., Carpaneto M., Marchesoni M., Vaccaro L.* - (Italy)  
Induction motor DTC with improvement in low frequency torque harmonic content
- MR\_330** *Chiandone M., Cleva S., Menis R., Sulligoi G.* - (Italy)  
Industrial motion control applications using Linux RTAI

- ED\_387** *De Vivo B., Egiziano L., Lamberti P., Tucci V.* - (Italy)  
Influence of circuit parameters on the electric discharge machining of the bearings of a PWM inverter driven motor
- MSA378** *Da Rin A., Quaia S., Sulligoi G.* - (Italy)  
Innovative concepts for power station design in all electric ships
- PEC418** *Fukushima K., Ninomiya T., Shoyama M., Norigoe I., Harada Y., Tsukakoshi K., Dai Z.* - (Japan)  
Input current-ripple reduction method on a novel pulse-link DC-AC converter for fuel cells applications
- PEC271** *Wilkie K., Stone D., Bingham C., Foster M.* - (U.K.)  
Integrated multilevel converter and battery management
- TD\_108** *Schaefer H., Kuhn K. J.* - (Germany)  
Integration of electric drives into different hybrid configurations of hybrid electric vehicles
- PS1342** *Conti S., Greco A. M., Messina N.* - (Italy)  
Intentional islanding of MV microgrids - Part 2: Discussion of a case study and analysis of simulation results
- ED\_336** *Leidhold R., Mutschler P.* - (Germany)  
Interaction between the current controller and the injection of alternating carriers in sensorless drives
- MEM089** *Sakamoto T., Wakimoto H.* - (Japan)  
Internal stress analysis of Halbach array magnets with application to linear synchronous motors
- MIS 361** *Balan H., Munteanu R., Vadan J., Botezan A.* - (Romania)  
Inverse currents injection module for direct current interrupters
- TD\_123** *Manigrasso R., Mauri M., Mapelli F. L., Tarsitano D.* - (Italy)  
Inverter loss minimization for a plug-in hybrid vehicle traction drive using DSC control
- PS2210** *Massoud A. M., Finney S. J., Williams B. W.* - (U.K.)  
Inverter-based versus synchronous-based distributed generation; fault current limitation and protection issues
- PEC302** *Zak J., Peroutka Z.* - (Czech Rep.)  
Laboratory prototype of traction converter with medium frequency transformer
- ED\_281** *Jalakas T., Vinnikov D., Laugis L.* - (Estonia)  
Light load operation of 6.5 kV 200A IGBT in halfbridge configuration
- PS2394** *Andreotti A., Mottola F., Pagano M.* - (Italy)  
Lightning induced voltage on power lines: a comparison between analytical solutions
- CD\_006** *Sayidi, A. M., Nekoui M.A.* - (Iran)  
Linear optimal control of one-machine infinite-bus model considering machine order increase
- TD\_137** *Kolomeitsev L., Kraynov D., Pakhomin S., Rednov F., Kallenbach E., Kireev V., Boecker J., Schneider T., Henke C.* - (Germany/Russia)  
Linear switched reluctance motor as a high efficiency propulsion system for railway vehicles
- CD\_321** *Jeftenic B., Bebic M., Gvozdenovic M., Risti L., Jevtic D.* - (Serbia)  
Load equalization for high-power induction motors by speed control in limited range
- CD\_390** *Won Seok Oh, Kim Sol, Ki Sun Cho, Kyu Min Cho, Seung Ho Yang* - (Korea)  
Load variation compensated neural network speed controller for induction motor drives

- ED\_095** *Abdelsalam A. K., Masoud M.I., Finney S.J., Williams B.W.* - (U. K.)  
Losses calculation for medium voltage PWM current source rectifiers using different semiconductor devices
- ED\_328** *Ferreyre F., Clerc G., Goyet R., Bouscasse T.* - (France)  
Low cost command device for single-phase induction motors
- CD\_262** *Krischan K., Dannerer G., Koenig O., Seebacher R. R.* - (Austria)  
Low cost speed control for single phase induction motors - comparing different approaches with regard to efficiency
- PEC090** *Meco-Gutiérrez M.J., Ruiz Gonzalez A., Vargas-Merino F., Heredia-Larrubia J.R.* - (Spain)  
Low heating losses by harmonic injection PWM with a frequency modulated triangular carrier
- PEC402** *Accardo L., Fioretto M., Giannini G., Marino P.* - (Italy)  
Low power Active Filter for conductive EMI compensation in a railway signalling window
- PSR030** *Demirtas M., Sefa I., Irmak E., Colak I.* - (Turkey)  
Low-cost and high sensitive microcontroller based data acquisition system for renewable energy sources
- MIS373** *Budig P. K.* - (Germany)  
Magnetic bearings with DC bias: design and optimum material choice
- PEC303** *Komrska T., Peroutka Z.* - (Czech Rep.)  
Main traction converter with medium-frequency transformer: control of converters around MF transformer
- MIS117** *Grigoryeva L., Kozoriz V., Lyashko O.* - (Ukraine)  
Maple-exploring of a free flywheel suspended by the superconductive bearing
- MIS195** *Ivanov V., Ivanov S., Brojboiu M., Sente P.* - (Romania/Belgium)  
Matlab graphical user interface for system with Dallas microcontroller
- BD\_164** *Bonfè M., Bergo M.* - (Italy)  
Mechatronic design of a PM brushless motor driven gear pump with sensorless control
- MIS023** *Molfese C., Schipani P., Capaccioli M., Sedmak G., D'Orsi S.* - (Italy)  
Mechatronic distributed control system for telescope primary mirror active optics
- PEC025** *Martin J., Ladoux P., Chauchat B., Casarin J., Nicolau S.* - (France)  
Medium frequency transformer for railway traction: characterisation of high voltage semi-conductors in soft switching mode
- BD\_099** *Shabani A.M., Kaviani A.K., Milimonfared J.* - (Iran)  
Minimization of commutation torque ripple of brushless DC motors with optimized neural network based input voltage control
- PEC204** *Plaza D., De Keyser R., Bonilla J.* - (Belgium)  
Model predictive and sliding control of a boost converter
- PEC284** *Vadillo J., Echeverria J. M., Fontan L., Martínez-Iturralde M., Elósegui I.* - (Spain)  
Modeling and simulation of a direct space vector modulated matrix converter using different switching strategies
- BD\_012** *Niasar A. H., Vahedi A., Moghbeli H.* - (Iran)  
Modeling and simulation of four-switch, three-phase brushless DC motor drive based on switching function concept
- MEM065** *Cay Z., Henze O., Weiland T.* - (Germany)  
Modeling and simulation of rolling element bearing in inverter-fed AC motors

- MR\_243** *Petrisor A., Bizdoaca N. G., Drighiciu M., Petrisor R.* - (Romania)  
Modeling and simulation of walking and climbing robots based on stable states transition approach as control strategy
- MR\_011** *Hentout A., Bouzouia B., Toukal Z.* - (Algeria)  
Modeling multi-agents system for driving mobile manipulator robots
- BD\_147** *Sadeghierad M., Darabi A., Lesani H., Monsef H.* - (Iran)  
Modeling of coreless high-speed axial-flux PM generator
- MEM075** *Amimeur H., Abdessemed R., Aouzellag D., Merabet E., Hamoudi F.* - (Algeria)  
Modelling and analysis of dual-stator windings self-excited induction generator
- PS1129** *Imecs M., Szabo C., Incze I. I.* - (Romania)  
Modelling and simulation of a vector controlled synchronous generator supplying a DC energy distribution line coupled to the AC grid
- TS\_422** *Nicolae P. M., Stanescu G.* - (Romania)  
Modern urban transportation system based on a PWM inverter
- BD\_167** *Viorel I. A., Larisa S.* - (Romania)  
Modular double sided linear switched reluctance motor
- MIS294** *Speretta S., Sansoè C., Del Corso D., Reyneri L. M.* - (Italy)  
Modular power supply for nano and micro satellites
- PEC231** *Laczynski T., Werner T., Mertens A.* - (Germany)  
Modulation error control for medium voltage drives with LC-filters and synchronous optimal pulsewidth modulation
- PEC130** *Szczepanik J.* - (Poland)  
Multiphase matrix converter for power systems application
- TD\_364** *Silva M., Trovao J. P., Pereirinha P., Marques L.* - (Portugal)  
Multiple energy sources monitoring system for electric vehicle
- CD\_148** *Tongkhundam G., Konghirun M.* - (Thailand)  
Multiple scalar controlled drives of induction motors for long cable applications
- PSW080** *Onel I., Aycicek E.* - (Turkey)  
Near future energy crisis in Turkey and new opportunities: wind energy
- MEM261** *Cedell T., Andersson M., Jeppsson P., Alaküla Mats, Reinap A., Högmark C.* - (Sweden)  
New advances in soft magnetic materials - Properties of moulded flux conductors in inductors and electrical motors
- SEM004** *Basler S., Kennel R.M.* - (Germany)  
New developments in capacitive/electrical encoders for servo drives
- PEC135** *Adragna C., De Simone S., Gattavari G.* - (Italy)  
New fixed off-time PWM modulator provides constant frequency operation in boost PFC pre-regulators
- MIS320** *Kozoriz V., Kostenko V., Korbut L., Lyashko S., Tretjak O., Tiagulskij V.* - (Russia)  
New magnetic force phenomenon testing
- PEC365** *Babaei E., Hosseini S H.* - (Iran)  
New multilevel converter topology with minimum number of gate driver circuits
- MSA379** *Mazzuca T., Torre M.* - (Italy)  
New trends in Italian naval propulsion plants design approach
- ACF151** *Iannuzzi D., Lauria D., Pagano M.* - (Italy)  
Non linear control of STATCOM for stand-alone power systems

- CD\_312** *Yanfeng Li, Haibin Yu, Dongmei Xie* - (China)  
Nonintrusive efficiency estimation-based fuzzy logic efficiency improvement in an open-loop speed control on induction motors
- ED\_165** *Zarebski J., Dabrowski J.* - (Poland)  
Non-isothermal characteristics of SiC power Schottky diodes
- PS2311** *Robinett R. D., Wilson D. G.* - (U.S.A.)  
Nonlinear power flow control applied to power engineering
- MSA162** *De Falco S., Pasquino N.* - (Italy)  
Nonstationary models for PQ monitoring in naval electrical systems
- TD\_334** *Gould C. R., Bingham C. M., Stone D. A., Bentley P.* - (U. K.)  
Novel battery model of an all-electric personal rapid transit vehicle to determine state-of-health through subspace parameter estimation and Kalman filter
- MEM106** *Bergoug N., Kadid F.Z., Abdessemed R.* - (Algeria)  
Numerical modeling of the electromagnetic model of an annular induction MHD pump by the finite volume method
- MID166** *Balestrino A., Landi A., Sani L.* - (Italy)  
On-line monitoring of a PMSM drive system by a multiple feedback relay
- CD\_269** *Hamasaki S., Tsuji M., Yano J., Yamada E.* - (Japan)  
Online signal frequency analysis using power series type wavelet transform
- PEC377** *Wilkie K. D., Foster M. P., Stone D. A., Bingham C. M.* - (U. K.)  
On-line tuning of a PID controller for a buck converter using a genetic algorithm
- BD\_052** *Botan C., Horga V., Ratoi M.* - (Romania)  
Optimal control of the electrical drives with permanent magnet synchronous machine
- PSW126** *Nandigam M., Dhali S. K.* - (U.S.A.)  
Optimal design of a HVDC offshore wind farm layout
- PS1146** *Andreotti A., De Martinis U., Lauria D., Mottola F.* - (Italy)  
Optimal design of combined AC-DC transmission lines
- BD\_082** *Caux S., Maussion P.* - (France)  
Optimal setting of PMSM observer parameters using 2D experimental designs
- TD\_211** *Miyatake M., Matsuda K.* - (Japan)  
Optimal speed and charge/discharge control of a train with onboard energy storage devices for minimum energy operation
- MEM276** *Pyc M., Gerling D.* - (Germany)  
Optimization of a homopolar machine
- MR\_240** *Stan S. D., Maties V., Balan R.* - (Romania)  
Optimization of a six degree of freedom micro parallel robot
- PS1053** *Chebbi S., Oualbani A., Annabi M.* - (Tunisia)  
Optimization of the electrical production of the electrical groups
- MEM208** *Munteanu A., Simion A., Livadaru L.* - (Romania)  
Optimization study upon excitation pole shape of a hybrid synchronous generator
- MEM111** *Centner M., Hanitsch R.* - (Germany)  
Performance evaluation of a subfractional horse-power permanent-magnet machine with a fractional slot-winding and asymmetrical stator-slot layout
- CD\_375** *Landi C., Luiso M.* - (Italy)  
Performances assessment of electrical motors in presence of disturbances on power supply

- BD\_017** *Reinhard M., Huth G.* - (Germany)  
Permanent excited synchronous machine with integrated contactless power delivery to the rotor system
- BD\_185** *Binder A., Mirzaei M.* - (Germany)  
Permanent magnet savings in high speed electrical motors
- ED\_322** *Jokinen M., Saarakkala S., Niemelä M., Pöllänen R., Pyrhönen J.* - (Finland)  
Physical drawbacks of controlled linear high speed tooth belt drives
- CD\_083** *Zatocil H.* - (Germany)  
Physical understanding of multiple saliencies in induction motors and their impact on sensorless control
- SUR186** *Binder A.* - (Germany)  
Potentials for Energy Saving with Modern Drive Technology – a Survey
- PS2314** *Caponetto R., Dongola G., Fortuna L., Riscica N., Zufacchi D.* - (Italy)  
Power consumption reduction in a remote controlled street lighting system
- PS1275** *Baghaee H. R., Golestan S., Mirsalim S. M., Gharehpetian G. B.* - (Iran)  
Power control strategy of grid connected parallel inverter interfaced micro-turbines in harmonic polluted grid
- CD\_163** *Dabadgaonkar S. B., Basu I. K., Joshi N. K.* - (India)  
Power electronic based controller for AC drives in marine pumps
- PS1239** *Moreno Martinez R., Antenor Pomílio J., Pereira da Silva L. C.* - (Brazil)  
Power flow control and islanding detection of local generation system with induction generator
- MEM226** *Baghzouz Y., Bouzidi F.* - (U.S.A.)  
Power loss in single-phase induction motors with SCR voltage controllers
- PS1340** *Menniti D., Picardi C., Pinnarelli A., Sgrò D.* - (Italy)  
Power management by grid-connected inverters using a voltage and current control strategy for microgrid applications
- PEC404** *Ladoux P., Liccardo F., Marino P., Torre G.* - (Italy/France)  
Power quality improvement by means AC/AC chopper
- PS2118** *Bitoleanu A., Popescu M., Dobriceanu M.* - (Romania)  
Power quality in local transportation network - The case study
- PS2180** *Stanescu C., Gal S. A., Widmer J., Pispiris S. C.* - (Romania/Switzerland)  
Power quality monitoring systems in Romanian electricity market
- MEM091** *Vlad I., Campeanu A., Enache S.* - (Romania)  
Precision improvement for predetermination of asynchronous motor operation characteristics by considering magnetic saturation
- MEM109** *Enache S., Campeanu A., Vlad. I.* - (Romania)  
Predetermination of the performances in dynamical regime for the DC motors using numerical methods
- MEM078** *Campeanu A., Ionescu A. I., Vlad I., Enache S., Nicolaescu M.* - (Romania)  
Prediction through simulation of the optimal behaviour of the induction machine in complex dynamical processes
- TD\_073** *Takahashi K.* - (Japan)  
Preliminary study of vehicle dynamics in a long train for superconducting maglev system

- ED\_119** *Abdi B., Ranjbar A. H., Malekian K., Milimonfared J., Gharehpetian G. B.* - (Iran/Canada)  
Problems associated with parallel performance of high current semiconductor switches and their remedy
- BD\_051** *Yano T.* - (Japan)  
Proposal of polyhedron based spherical stepping motors
- PEC206** *Dell'Aquila A., Lecci A.* - (Italy)  
PSO-based control optimization of power converters
- MIS077** *Ahonen T., Tiainen R., Ahola J., Kestila J.* - (Finland)  
Pump operation monitoring applying frequency converter
- ACF008** *Seifossadat G., Ghasemi A.* - (Iran/France)  
Quality improvement of shunt active power filter, using optimized tuned harmonic passive filters
- CD\_110** *Li Weichao, Hu An, Geng Shiguang, Sun Chi* - (China)  
Rapid control prototyping of fifteen-phase induction motor drives based on dSPACE
- BD\_238** *Shabani A., Shokrollahi-Moghani J., Milimonfared J.* - (Iran)  
Reduction of cogging force in axially magnetized tubular permanent magnet machines with iron pole-piece slotting
- PS2120** *Abdi B., Ranjbar A. H., Milimonfared J., Gharehpetian G. B.* - (Iran/Canada)  
Reliability comparison of boost PFC converter in DCM and CCM operating modes
- PEC122** *Ranjbar A. H., Abdi B., Milimonfared J., Gharehpetian G. B.* - (Iran/Canada)  
Reliability considerations for full-bridge DC-DC converter in fuel-cell applications
- PEC160** *Zhou Jinghua, Li Zhengxi* - (China)  
Research on hybrid modulation strategies based on general hybrid topology of multilevel inverter
- PEC288** *Bellini A., Bifaretti S., Iacovone V.* - (Italy)  
Resonant DC-DC converters for renewable energy generation systems
- CD\_278** *Mortazavi S.S., Kianinezhad R., Ghasemi A.* - (Iran)  
Robust active power filter for power quality improvement under fast load variation
- CD\_409** *Filote C., Ciufudean C., Graur A., Cozgar A. M., Amarandei D.* - (Romania)  
Robust-adaptive flux observer in high performance vector control of induction motors
- BD\_229** *Satoshi Y., Hasegawa M., Matsui K.* - (Japan)  
Robustness evaluation of IPMSM sensorless control to magnetic saturation using unknown input observer
- PS1177** *Ilisiu D.* - (Romania)  
Romanian energy market impact on automation and management systems of the large power plants units
- MIS350** *Ohsaki H., Komi Y., Sekino M., Kubota M., Yamauchi Y.* - (Japan)  
Rotational loss analysis of thrust bearing using a superconducting coil for flywheel energy storage
- PEC403** *Accardo L., Fioretto M., Giannini G., Marino P.* - (Italy)  
Sampling problems using Mixed Random Modulation Techniques (MRMT) for the reduction of magnetic noise in traction motors
- CD\_292** *Egaña I., Elósegui I., Martínez-Iturralde M., García Rico A., Florez J.* - (Spain)  
Segmented plane magnets in surface mounted permanent magnet machines: influence and design



- PEC220** *Hotait H., Massoud A.M., Finney S. J., Williams B. W.* - (U.K.)  
Sensorless capacitor voltage balancing using redundant states for five-level multilevel inverter at high power factor high modulation index
- CD\_347** *Andriollo M., De Bortoli M., Martinelli G., Morini A., Tortella A.* - (Italy)  
Sensorless control strategy for a VAWT driven PM synchronous generator
- BD\_079** *Ozcira S., Bekiroglu N., Aycicek E.* - (Turkey)  
Sensorless speed control of permanent magnet synchronous motor based on direct torque control
- CD\_285** *Wang C., Zhou Z., Unsworth P., Farrell T. O.* - (U. K.)  
Sensorless speed measurement of induction machines using short time Fourier transformation
- CD\_283** *Casadei D., Mengoni M., Serra G., Tani A., Zarri L.* - (Italy)  
Seven-phase induction motor drive based on stator flux vector control
- PEC401** *Kouzou A., Khaldi B. S., Mahmoudi M. O., Boucherit M. S.* - (Algeria)  
Shunt active power filter apparent power for design process
- PEC199** *Sobczyk T. J., Borkowski D.* - (Poland)  
Simplified analysis of matrix converter as a voltage phase controller for power system
- BD\_115** *Jianghua Cao, Xiangyu Yang* - (China)  
Simulation and modeling of dual-rotor permanent-magnet synchronous motor based on MATLAB
- PEC257** *Begalke T.* - (U.S.A.)  
Single transformer multiple port converter
- TD\_272** *Henini N., Tabbache B., Roubache T., Kheloui A.* - (Algeria)  
Sizing methodology of EV drive system based on optimal power efficiency
- CD\_218** *Ryvkin S., Schmidt-Obermoeller R., Steimel A.* - (Germany, Russia)  
Sliding mode control design technique for drive system fed by a three-level voltage source inverter
- ACF049** *Kanaan H.Y., Mendalek N., Georges S., Hayek A., Al-Haddad K.* - (Lebanon-Canada)  
Small-signal averaged modeling, simulation and linear control design of a PWM fixed frequency three-phase four-wire shunt active power filter for a typical industrial load
- PEC219** *Casini D., Marola G.* - (Italy)  
Solar battery charger for NiMH batteries
- PEC405** *Ahmed M.E., Mekhilef S.* - (Malaysia)  
Space vector modulation control scheme for three-level nine switch inverter
- PEC360** *Grandi G., Tani A., Serra G.* - (Italy)  
Space vector modulation of six-phase VSI based on three-phase decomposition
- MEM354** *Jardan R. K., Nagy I., Varga Z.* - (Hungary)  
Special features of ultra high speed induction generators applied in the utilization of renewable energy sources
- CD\_323** *Larabi A., Mahmoudi M. O., Boucherit M. S.* - (Algeria)  
Speed sensorless vector control of induction motor using the adaptive method with model of reference
- PS2393** *Chiodo E., Lauria D.* - (Italy)  
Stability assessment of power system including FACTS devices

- PS1150** *Wei Keyin, Liu Dezhi, Ou Yangbin, Li Weichao* - (China)  
Stability study of multi twelve-phase synchronous generator-rectifier system paralleled at DC-side
- MEM369** *Bruzzese C., Giordani A., Santini E.* - (Italy)  
Static and dynamic rotor eccentricity on-line detection and discrimination in synchronous generators by no-load E.M.F. space vector loci analysis
- CD\_259** *Salvatore N., Cascella G. L., Dell'Aquila A., Stasi S.* - (Italy)  
Stator flux oriented control of induction motors using variable-saturation regulators
- MEM368** *Reichert K.* - (Switzerland)  
Steady-state finite-element methods to permanent magnet motor characteristics determination
- PS1009** *Golkar M. A., Gahrooyi Y. R.* - (Iran)  
Stochastic assessment of voltage sags in distribution networks
- MSA157** *Prempraneerach P., Chryssostomidis C., Triantafyllou M. S., Karniadakis G. E.* - (U.S.A.)  
Stochastic modeling of integrated power system coupled to hydrodynamics in the all-electric ship
- TD\_121** *Carter R., Cruden A.* - (U. K.)  
Strategies for control of a battery/supercapacitor system in an electric vehicle
- BD\_097** *Kazumasa A., Yamada A., Miki I., Nakamura M.* - (Japan)  
Study on improvement of efficiency for outer rotor type of interior permanent magnet synchronous motor
- TS\_396** *Battistelli L., Proto D.* - (Italy)  
Substation inverter control for AC electrified transportation systems
- MIS021** *Molfese C., Schipani P., Capaccioli M., Sedmak G., D'Orsi S.* - (Italy)  
Survey telescope control electronics
- PEC067** *Wenhua Hu, Weiming Ma, Qianzhi Zhou* - (China)  
Switch linear hybrid power converter and its applications
- PEC222** *Ortenzi G., Pomilio J. A.* - (Brazil)  
Switch mode power supply scalability
- PEC190** *Vázquez C., Lafoz M., García-Tabarés L., Ugena D., Toral F., Rodríguez E., Sanz S., Rodríguez I., Carrillo D.* - (Spain)  
Switching losses reduction in current-controlled single-phase inverters
- PEC116** *Oleschuk V., Griva G., Profumo F., Tenconi A.* - (Italy)  
Synchronized overmodulation techniques for symmetrical dual three-phase converters
- MEM370** *Bruzzese C., Giordani A., Rossi A., Santini E.* - (Italy)  
Synchronous generator eccentricities modeling by improved MWFA and fault signature evaluation in no-load E.M.F.s and current spectra
- PEC069** *Yuan Y.* - (China)  
The capacitor commutated converter (CCC) as an alternative for application in slip-energy recovery drives
- MEM383** *Komma T., Gueldner H.* - (Germany)  
The effect of different air-gap positions on the winding losses of modern planar ferrite cores in switch mode power supplies
- MEM189** *Chrisanov V.* - (Poland)  
The induction motor start-up with transient suppression

- PEC182** *Baguley C. A., Madawala U. K., Carsten B.* - (New Zealand)  
The influence of temperature, and core geometry on ferrite core losses under DC bias conditions
- MEM247** *Drif M., Marques Cardoso A. J.* - (Portugal)  
The instantaneous power factor approach for rotor cage faults diagnosis in three-phase induction motors
- MID376** *Fiorucci E., Bucci G., Rotondale N., Ciancetta F.* - (Italy)  
The measurement of the instantaneous power rms value for the power distortion evaluation
- MR\_094** *Nagai T., Aramaki S.* - (Japan)  
The representation method of robotic assembly task with click action
- MIS036** *Ganesh N., Parameswari R., Samaya Sanjeevi K., Kamaraj V.* - (India)  
The use of soft magnetic composite material in switched reluctance machine - A study on static magnetic characterization
- TD\_215** *Hrabovcova V., Rafajdus P., Vojeneiak M., Susota M.* - (Slovak Rep.)  
Thermal analysis of superconducting traction transformer
- FDA007** *Gamil A. - Herold G.* - (Germany)  
Three phase fault analysis of dc-link rectifier using new power differential protection concept
- BD\_252** *Cistelecan M. V., Popescu M., Melcescu L., Tudorache T.* - (Romania)  
Three phase line start claw poles permanent magnet motor with pole changing winding
- CD\_060** *Braslavsky I. Ya, Zyuzev A. M., Nesterov K.E.* - (Russia)  
Thyristor controlled asynchronous electrical drive without speed sensor
- ED\_256** *Mihaiu M. I.* - (Romania)  
Toward the “ideal diode” by using power MOSFET in full wave synchronous rectifiers for low voltage power supplies
- MEM144** *Eme A., Chamagne D., Pouget J., Glises R.* - (France)  
Transient multiphysical modeling of an actuator for a variable load
- EEE192** *Roasto I., Vinnikov D.* - (Estonia)  
Ultracapacitors as an innovative teaching topic in Tallinn University of Technology
- BD\_174** *Moussa M.F., Helal A., Gaber Y., Youssef H.A.* - (Egypt)  
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- EEE141** *Vodovozov V., Vinnikov D., Lehtla T.* - (Estonia/ Russia)  
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- PS2291** *Giannoccaro N. I., Messina A., Sakamoto T.* - (Italy/Japan)  
Updating of a lumped model for an experimental web tension control system using a multivariable optimization method
- PEC020** *Ghadimi A., Rastegar H., Keyhani A.* - (Iran)  
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- MEM002** *Godin Th., Bellemare J., David E.* - (Canada)  
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- PSR136** *Singo T. A., Martinez A., Saadate S.* - (France)  
Using ultracapacitors to optimize energy storage in photovoltaic system

- PEC338** *Sugimura H., Kwon S-K, Nakaoka M.* - (Japan/Korea)  
Utility frequency AC to high frequency AC soft switching direct power converter without smoothing DC link for IH dual packs heater
- TS\_084** *Kobielski A., Prusak J.* - (Poland)  
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- MID395** *Orkisz M., Wnek M., Kryczka K., Joerg P.* - (Poland/Switzerland)  
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- PEC223** *Canesin C. A., Gonçalves F. A. S., Leandro E., Pinto J. O. P.* - (Brazil)  
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- BD\_032** *Grabner C.* - (Germany)  
Vector control versus brushless DC operation of a higher harmonic air-gap wave based permanent magnet motor
- TD\_018** *Hartani K., Miloud Y., Bourahla M.* - (Algeria)  
Vehicle stability improvement based on electronic differential using sliding mode control
- TD\_306** *Morita G., Konishi T., Hase S., Nakamichi Y.* - (Japan)  
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- CD\_343** *Pimentel J. R., Rojas-Moreno A.* - (U.S.A.)  
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- TD\_154** *Vignaux L., Saiz J., Castellazzi A., Ladoux P.* - (France/Switzerland)  
VHDL-AMS traction drive model including a 3D description of thermal effects
- PED298** *Pietkiewicz A.* - (Switzerland)  
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- SEM072** *Subtirelu E., Dobriceanu M.* - (Romania)  
Virtual measurement system for study and determination parameters in asynchronous motor test
- MIS421** *Chiodo E., Mazzanti G.* - (Italy)  
Voltage endurance estimation in aging inference of electrical machines
- MSA408** *Giadrossi G., Menis R., Sulligoi G., Tessarolo A.* - (Italy)  
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- MSA420** *Hepburn R.* - (U.S.A.)  
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- PEC113** *Sack L., Piepenbreier B., Zimmermann M. V.* - (Germany)  
Z-source inverter for general purpose drives in motoring and regenerating operation