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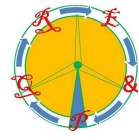
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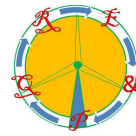


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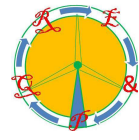


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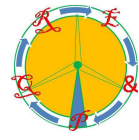
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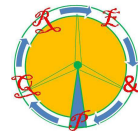
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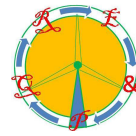
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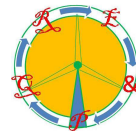
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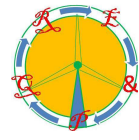
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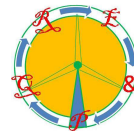
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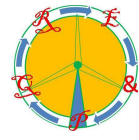
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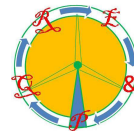
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A. Xiaolan Ji, B. Yundong Ma , C. Di Xu
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390 Power Quality Analyzer implemented with Matlab and Data Acquisition Toolbox

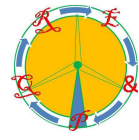
Omar Pinzón Ardila
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392 Insulated Gate Bipolar Transistor Failure Analysis in Overvoltage Condition

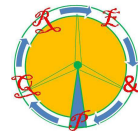
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393 Optimal Allocation of Mega-solar Power Station using Integrated Input and Output-oriented models in Data Envelopment Analysis

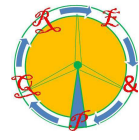
S. Yokota, T. Kumano
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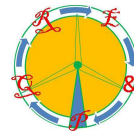
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Department of Aerospace and Mechanical Engineering. Korea Aerospace University. Korea
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2. Irkutsk State Technical University, Hanoi. Vietnam
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Power Systems and High-Voltage Engineering. Faculty of Electrical Engineering and Information Technology. Chemnitz University of Technology. Germany
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- 408 Optimal Hydrogen Storage and Demand on Electricity Distribution Networks with Excess Wind Power**
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- 411 Analysis of a Single-Phase Line-Interactive UPS System**
R. A. Modesto(1), S. A. O. Silva(1), R. Barriviera(2), M. Kaster(1)
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2. Department of Electrotechnic. Federal Institute of Paraná – IFPR- CEP. Brazil
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Dace Arina, Janis Kalnacs, Alexandr Murashov, Daina Grigale
State Research Institute “Institute of Physical Energetics”. Latvia



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1. Electrical Engineering . Universidade Federal de Minas Gerais, Belo Horizonte, MG, Brazil
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1. Department of Electrical Engineering .D.I.E., University of Bologna. Italy
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Department of Electrical Engineering at the State University of Londrina. Brazil
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Nanjing University of Aeronautics and Astronautics, Nanjing, Jiangsu Province. China
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- 434 Stability Support of Autonomous Networks with Dispersed Generation Using Rotary Ride Through Systems**
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- 437 Efficiency analyze Borehole Heat Exchangers (BHEs) of the research geothermal polygon placed at VŠB-Technical University of Ostrava**
P. Bujok(1), V.K. Chistyakov(2), M. Klempa(1), I.A. Straupnik(2)
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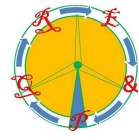


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Electrical Engineering Faculty, K. N. Toosi University of Technology, Tehran. Iran
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1. University of Beira Interior and CAST, Covilhã. Portugal
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Bert Herteleer(1), Jan Cappelle(1), Johan Driesen(3)
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3. Elektro Primorska d.d. Nova Gorica. Slovenia
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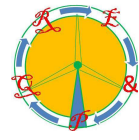
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University of Valladolid. Spain
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- 469 Remodelling of the heating systems of a sports center based on life cycle assessment. Part II: Solar hybrid system**
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Deusto Institute of Technology – DeustoTech Energy. University of Deusto, Bilbao. Spain
- 471 Proposal of a Power Quality Analyzer for the new Brazilian Distribution Procedures (PRODIST)**
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- 479 Very short-term load forecast, for demand side management, in absence of historical data**
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Centro de Estudos em Energia e Meio Ambiente. Universidade Federal de Santa Maria. Brazil
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Mustafa Al-Ramadhan, Mohammad Abido
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University of Maribor Faculty of Electrical Engineering and Computer Science. Slovenia
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Electrical Engineering Department, Amirkabir University of Technology, Tehran. Iran
- 483 A Simple Method for Detection of Voltage Sags and their Mitigation using a Dynamic Voltage Restorer**
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- 484 A Current Sharing Using Switched-Capacitor ZVS Driver for Power LEDs**
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2. Federal University of Ceará – UFC, Group of Energy Processing and Control – GPEC Campus do Pici, Fortaleza – CE. Brazil
- 487 Ecoaldeas or Self-Sustainable Communities and renewable energy solutions (SSC). First approach Ecuador and Mexico**
A.López Agüera(1,2), J. Domingues Azevedo(1,5), I. Rodríguez Cabo(1,2), D. Rey Rey(1,2), V. Gándara Villadoniga(1), E. Vieites Montes(1,2), J Peralta(1,3), I. Sosa(1,4), J. Guerra(5), M. Alguacil(6)
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- 494 Determination of Controllers Constraints for Frequency Stability in an Islanded Microgrid**
M. Kohansal, G. B. Gharehpetian, M. Abedi, M. J. Sanjari
Electrical Engineering Department, Amirkabir University of Technology, Tehran. Iran
- 495 Droop Controller Limitation for Voltage Stability in an Islanded Microgrid**
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Electrical Engineering Department, Amirkabir University of Technology, Tehran. Iran
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M. A. Hassan, M. A. Abido
Department of Electrical Engineering, King Fahd University of Petroleum & Minerals. Saudi Arabia
- 500 Saturated Induction Machine Modelling Based on High Frequency Signal Injection**
S. Damkhi, MS. Naït-Saïd, N. Naït-Saïd
Department of Electrical Engineering, Batna University, LSP-IE Batna Laboratory .Algeria
- 503 Introducing the Solar Radiation Atlas of Galicia, the ultimate resource to assess and exploit solar radiation in Galicia (NW Spain)**
A. Pettazzi, S. Salsón
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- 504 Coupling digital terrain to radiative transfer model to assess surface solar radiation at high resolution scale: validation of GIS module r.sun in Galicia**
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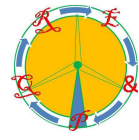


- 505 Merging remote sensing data with in-situ measurements of global solar radiation: the right path to estimate the solar resource in Galicia**
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- 509 Advanced Superconducting Power Conditioning System for Effective Use of Renewable Energy**
T. Shintomi(1), Y. Makida(2), T. Hamajima(3), S. Tsuda(3), D. Miyagi(3), T. Takao(4), N. Tanoue(4), N. Ota(4), K. Munakata(5), M. Kajiwara(5)
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3. Electrical Communication Engineering Department, Graduate School, Tohoku University. Japan
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5. Iwatani Corporation, Osaka. Japan
- 510 Design parameters independent on the type of platform in floating offshore wind farms**
L. Castro - Santos, Sara Ferreiro González, Alba Martínez López, V. Diaz-Casas
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- 512 Assessment of Financial Losses Due to Voltage Sags Using Optimal Monitoring Schemes**
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2. P. G. I. I. E. Instituto Tecnológico de Morelia. México
- 514 Centralized control of a Wave Energy Farm**
M. Santos, F. Salcedo, E. Tedeschi, E. Robles, J.L. Villate
Energy Unit. TECNALIA. Derio. Spain
- 515 Biogas Production Potential from Reeds**
Vilis Dubrovski, Valters Kazulis
Latvia University of Agriculture, Latvia
- 517 Neural-Networks and Synchronous Reference Frame Applied in the Harmonic Compensation with a Three-Phase Parallel Active Power Filter**
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- 519 Performance Analysis of Methods at Estimating Insulated Cables Degradation**
L. N. Velasco(1), A. Reis(1), J. C. Oliveira(1), L. C. G. Freitas(1), A. P. Finazzi(2), F. N. Lima(2), H.C. Martins(3), W. J. Araújo(3), J. M. Borges(3)
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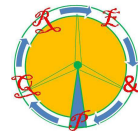
- 521 La_{0,6}Sr_{0,4}CoO₃ Coating on AISI 430 Ferritic Stainless Steel for Application in ITSOFC Interconnects**
M. Korb(1), I. D. Savaris(1), E. E. Feistauer(2), L. S. Barreto(2), V. C. Sousa(3), I. L. Müller(1) C. Malfatti(1)
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- 523 Voltage Forecasting in a Very Short Time Through the Application of Nebulous Systems**
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- 525 Fuzzy Coordinated Control of TCSCs to Improve Power System Stability**
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2. Amirkabir University of Technology, Electrical Engineering Department, Tehran. Iran
- 528 Air flow prediction and evaluation of ventilation Effectiveness with different zonal configurations**
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- 530 Comparative Evaluation of AC-DC Converters for Input Current Harmonics: A Study**
A .K. Mishra M. R. Ramteke H. M. Suryawanshi
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- 532 Modeling of equivalent grids through vulnerability studies for analysis of power systems with wind producers**
C.B.M. Oliveira(1), J.T.de Oliveira(1) M.F.de Medeiros Jr.(2)
1. Department of Computing and Automation Engineering. UFRN, Federal University of Rio Grande do Norte, Mirassol, Natal. Brazil
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- 533 Enhanced recovery of light-induced degradation on the micromorph solar cells by reverse bias**
H.-C. Sun(1), J. Y. Chen(1), Y.-J. Yang(1), T.-M. Chao(1), W.-D. Chen(1), C. W. Liu(1,2), W.-Y. Lin(2), C.-C. Bi(3), C. -H. Yeh(3)
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- 537 Demand Charge Under Nonsinusoidal Conditions**
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- 538 Physico-chemical properties of transformer mineral oils submitted to moisture and electrical discharges**
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- 542 Islanding detection of synchronous distributed generators**
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- 543 A Mathematical Method of Energy Resources Flows Data Validating using the State Estimation Theory**
Vladislav O. Samoylenko, Andrew V. Pazderin
Department of Automated Electrical Systems, Boris Yeltzin Ural Federal University Ekaterinburg. Russia
- 545 Design and analysis of a Hybrid Drying Using Renewable Technologies**
Emérita Delgado(1,2), Juan Peralta(1), Ivan Arboleda(1), A Lopez Agüera(2)
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- 546 Reimbursement Procedure due to Electrical Damages: the Subject Relevance, Juridical Fundamentals, Agency Standards, Analysis Procedures and Trends**
I. N. Gondim(1), P. H. O. Rezende(1), J. C. Oliveira(1), J.R.Macedo Jr(1) A. C. O. Salomão(2), N. Kagan(2)
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- 547 A proposal for Computational Refunding Analysis based on real time disturbances measurements**
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- 549 Batteries comparison for an optimal accumulation performance on PV isolated systems**
A.Daniel Rey Rey(1,2),A. López Agüera(1) ,I.Rodriguez Cabo(1), E. Vieites Montes(1), J. Demetino(2), I. Pepe(2)
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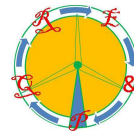


- 553 Voltage margin control for offshore multi-use platform integration**
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- 554 Determining Optimal Breakpoints in Urban Power Networks with Genetic Algorithm**
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- 556 Iran's Participatory Power Market Regarding Distributed Generation from Renewable Sources: A Case Study**
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- 557 In-field monitoring and numerical parametric analysis of a small size adsorption solar cooling plant in Italy**
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- 559 Performance Assessment of an Aeolian Roof for the Exploitation of Wind Power in Urban Areas**
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- 564 A Novel Scheme to Protect Distribution Networks in Presence of Inverter-Based Distributed Generation**
E. Ebrahimi, G. B. Gharehpetian, J. Milimonfared
Department of Electrical Engineering, Amirkabir University of Technology, Tehran. Iran
- 565 Low-Cost Instrument for Tracing Current-Voltage Characteristics of Photovoltaic Modules**
Vicente Leite(1), José Batista(1), Faustino Chenlo(2) João L. Afonso(3)
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- 566 Application of Trigeneration to a Multi-Unit Residential Building in Canada**
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- 567 VERCampus – Live Park of Renewable Energies**
Vicente Leite, José Batista, Orlando Rodrigues
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- 569 Modelling and Validation of the Magnetizing Curve to Represent Saturated Core Reactor Using ATP Simulator**
J.A.F. Barbosa Jr, J. C. Oliveira, T. V. Silva, I. N. Gondim, F. P. Santilio, L. N. Velasco
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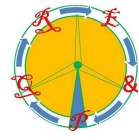
- 571 Multi-objective Optimization of Microgrid Frequency and Energy Storage Capacity**
M. Kohansal, G. B. Gharehpetian, M. Rahmatian, M. J. Sanjari
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- 573 Economic impact of non dispatchable generation on the cost of energy supply and on the adjustment services**
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- 580 Poultry litter: great potential for electrical energy generation in Brazil**
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L. Dorobantu, M.O. Popescu, Cl. Popescu, A. Craciunescu
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Automated power systems department of the Ural Energy Institute. Russia
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- 593 Development of a Quality Management System for Electric Power applied to Small Wind Turbines**
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- 594 Use of the Newton's Method to Rotor-Resistance Control of Wind Turbine Generators**
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- 597 Voltage-induced stresses during Low-Voltage Ride Through (LVRT) in the drive train of wind turbines with DFIG**
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- 600 Energy Reductions in the Pulp-and-Paper Industry by Upgrading Conventional Pumping Systems through the Installation of VFDs – A Case Study**
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- 603 Development of PtNi and PtSnNi/C Nanocatalysts for Energy Conversion form Ethanol Electrooxidation**
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- 604 A Contribution to Isolated and Grid-Connected Photovoltaic Systems under Shadow Conditions**
A. F. Cupertino, J. T. de Resende, B.M Silveira, A.O.R. Vilela, H.A Pereira
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- 607 Estimating the estate of charge of lead-acid batteries**
G. G. Demetino(1), I.M. Pepe(2), V. L. Filardi(1), L. C. S. Soares Júnior(2), C. E. T. Silva(1), G. P. Guedes(3), J.G. Lima Brasília(3), D. Rey Rey(4), A. L. Aguera(4), J.C. Anjos(5)
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- 609 Uncertainty Budget Analysis and its role in Microbial Fuel Cell Parameter Characterization**
Miguel C.J. Andrews, D.P. Sharma, H.P.S. Missan
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- 610 Energy system aspect in Brazil**
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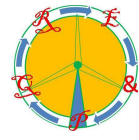


- 611 Renewable Energy in Residential Buildings Analysis of different micro-generation systems**
M. Rodrigues(1), M. Valdez(1) D. Coelho(1,2)
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- 612 Efficient space heating in a Portuguese Public Building Replacement of a Liquefied Petroleum Gas Boiler by Heat Pump**
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M. I. Buzdugan, H. Bălan
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- 617 The Effect on Emissions of using Alternative Fuels in Turbo-Charged Diesel Engines**
S.Hudson, C.Stubbs, W.Weston
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Damian Mazur
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- 626 Risk assessment and lightning protection for PV systems and solar power plants**
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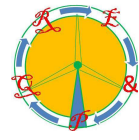
- 634 Impact of Distributed Generation on Fault Locating Methods in Distribution Networks**
E. Ebrahimi, A. J. Ghanizadeh, M. Rahmatian, G. B. Gharehpetian
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- 637 Smart Structural Control Strategies for Offshore Wind Power Generation with Floating Wind Turbines**
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- 638 Biomass CHP Technical and Economic Assessment applied to a Sawmill Plant**
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- 644 Thermal optimization the width of light absorbing plate of sheet-tube solar absorbers for preheating of feed water in combined solarfuel systems of hot water supply**
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- 649 Developing a Platform for Energy Efficiency Monitoring**
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- 651 Investigating University Personnel Computers (PC) Produced Harmonics Effect on line Currents**
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- 654 Estimation of power components for non-sinusoidal currents and voltages regarded as power quality indices**
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- 659 Electric field analysis in warning light for power lines of high voltage**
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- 660 Fuzzy Logic Based Power Management Strategy for Plug-in Hybrid Electric Vehicles with Parallel Configuration**
Hasan Alipour, Behzad Asaei, Ghias Farivar
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- 663 Energetic, economic and environmental sustainability of integrated techniques for energy production in buildings using hydrogen as storage system**
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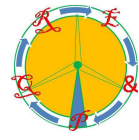
- 664 Minimization of torque ripple in switched reluctance motor drives using direct instantaneous torque control**
J. Castro, P. Andrada, B. Blanqué
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Mussie Geberslassie, Berthold Bitzer
South Westphalia University of Applied Sciences, Soest. Germany
- 671 Impedance-Based Methods for Detection of Voltage Sag Sources**
Boštjan Polajžer, Gorazd Štumberger, Drago Dolinar
University of Maribor. Faculty of Electrical Engineering and Computer Science, Maribor. Slovenia
- 672 Matlab based Model of 40-MW Concentrating Solar Power Plant**
Silvano Vergura, Virginio Di Fronzo
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- 673 EOLMAP: A web tool to assess the wind resource over Spain**
R. Lorente-Plazas, J.P. Montávez, S. Jerez, J. J. Gómez Navarro, P. Jiménez Guerrero, P. A. Jiménez, J.A. García-Valero, F. Gomáriz-Castillo, F. Alonso-Sarria
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- 675 Estimation of Power System Harmonics and Interharmonics in the Presence of Aperiodic Components**
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- 676 Power output fluctuations in large PV plants**
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- 678 Coastal Sea Power. A proposal for Exploitation Wave Energy**
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- 679 Energy self-sufficiency and sustainable development in a closed mountain area**
M. De Carli(1), S. Graci(1), Y. Natalini(1), Luigi Tonus(2), Paola Agostini(2)
1. DFT - Dipartimento di Fisica Técnica, University of Padua. Italy
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- 680 The Strategic Importance of the Electric Transmission in a System Based on Primary Renewable Source**
T. H.V. Silveira(1), A.A. Bertoni(1), D.M. Silva(1), L.C. Fonseca(1), A. F. V. Silveira(1,3), A.W.F.V. Silveira(2)
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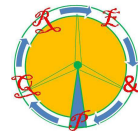
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Prashant Kumar
Department of Mechanical Engineering. National Institute of Technology, Hamirpur. India
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A. Fleury(1,3), R. J. Dias(1), W. R. H. Araújo(1), A. W. F. V. Silveira(2), D. A. Andrade(2), G. C. Ribeiro(3)
1. Pontifícia Universidade Católica de Goiás. Brazil
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3. Universidade Estadual de Goiás. Brasil
- 688 Operation of the Brazilian Renewable Energy System**
A. Bertoni(1), G. Elias(1), A. Silveira(2), A. Fleury(1,3), T. Silveira(1)
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- 692 Minimalistic approach of a complex and flexible teaching laboratory for photovoltaic energy conversion: experience from courses at the Kasetsart University in Bangkok and at GPEsolar (Technical University Berlin)**
Th. Dittrich
Helmholtz Center Berlin for Materials and Energy, Hahn-Meitner-Platz. Berlin. Germany
- 695 Analysis of Cu(In, Ga)Se₂ Efficiency Gap Between Module and Cell**
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- 696 The Hot Spot phenomena in Shadowed ENR System**
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Laboratoire de Modélisation de Dispositifs à Énergie Renouvelable et Nanométriques, Uni. Mentouri Constantine, Faculté des Sciences de L'ingénieur. Département d'Électronique, Alger
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C.L. Su(1), C.H. Hsu(2), K.H. Lan(2), R. Leron(1), A. Soriano(3), M.H. Li(1)
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- 698 Two Control Strategies for Aggregated Wind Turbine Model with Permanent Magnet Synchronous Generator**
M. J. Mercado-Vargas(1), Fujin Deng(2), O. Rabaza(1), E. Alameda-Hernandez(1), Zhe Chen(2)
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- 699 Wind turbines maintenance management based on FTA and BDD**
F.P. García Márquez(1), J.M. Pinar Pérez(1) M. Papaelias(2) and R. Ruiz Hermosa(1)
1. Ingenium Research Group, E.T.S.I.I., Castilla-La Mancha University, Ciudad Real. Spain
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- 701 Energy production estimating of photovoltaic systems**
Gábor Ádám, Kristóf Baksai-Szabó, Péter Kiss
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1. Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University, Bangkok. Thailand
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K. Deželak, P. Sukič G. Štumberger
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K. Znajdek, M. Sibiński
Department of Semiconductor and Optoelectronic Devices, Technical University of Lodz. Poland
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Faculty of Electrical Engineering UFU, Federal University of Uberlândia. Brazil
- 709 Carbon Emission Comparison between Natural Gas and Electric Resistance for Water Heating**
Gabriel Cury Martins de Oliveira(1), Ricardo Abranches Felix Cardoso Junior(2)
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- 710 Decision Support in the Investment Analysis on Efficient and Sustainable Electrical Equipment**
J.A. Lobão(1), T. Devezas(2), J.P.S. Catalão(2)
1. Polytechnic Institute of Guarda. Portugal
2. University of Beira Interior and CAST, Covilhã. Portugal
- 712 Inertia and Governor Ramp Rate Constrained Economic Dispatch to Assess Primary Frequency Response Adequacy**
Hector Chavez, Ross Baldick
Department of Electrical and Computer Engineering. The University of Texas at Austin. USA
- 713 A New Control Method for Operation of D-STATCOM Under the Unbalanced Conditions**
H. Molavi, M.M. Ardehali, G. B. Gharehpetian, M. J. Sanjari, E. Ebrahimi
Department of Electrical Engineering, Amirkabir University of Technology, Tehran. Iran
- 714 Assessment and modelling of the waste heat availability from gas turbine based CHP systems for ORC system**
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1. Computing Engineering and Mathematics, University of Brighton. United Kingdom
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W.-G. Früh
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- 716 Investigating two configurations of a heat exchanger in an Indirect Heating Integrated Collector Storage Solar Water Heater System (IHICSSWHS)**
R. Mossad, M. AL-Khaffajy
Faculty of Engineering and Surveying, University of Southern Queensland. Australia
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Borzychowski Robert(1), Csontos Kinga(1), González María A.(1) Rojas-Solórzano Luis(2)
1. International Masters in Management and Engineering of Environment & Energy (ME3): École des Mines de Nantes; Royal Institute of Technology, Stockholm; Universidad Politécnica de Madrid; Queen's University Belfast; Budapest, University of Technology and Economics
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William Hafner-Burton, Peter Nelson, Ahmed ElSawy
Department of Manufacturing and Industrial Technology, Tennessee Technological University, Tennessee, USA
- 720 Performance study on solar assisted heat pump water heater using CO₂ in a transcritical cycle**
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1. Department of Mechanical Engineering, North Dakota State University. Fargo. USA
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- 722 Real-Time Hardware Simulator for Grid-Tied PMSG Wind Power System**
B. Han, J. Jeong
Department of Electrical Engineering, Myongji University, Seoul. Korea
- 723 Highly-Efficient Power-Conditioning System for Grid-Tied Fuel Cell Power Generation**
B. Han, J. Lee
Department of Electrical Engineering, Myongji University, Seoul. Korea
- 724 The Use of Digital Signal Processing Card in Active Power Filter Design To Mitigate Harmonic Distortion**
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Electrical Engineering Department, Faculty of Industrial Technology, Petra Christian University, Surabaya. Indonesia
- 727 Influence of the photovoltaic generation in a small distribution network**
E. Tarancón Andrés(1), L.A. Fernández Jiménez(2), E. García Garrido(2), A. Falces de Andrés(2), P. Lara Santillán(2), P. Zorzano Santamaria(2)
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- 728 An Improved Bayesian-based Approach for Short Term Photovoltaic Power Forecasting in Smart Grids**
A. Bracale(1), P. Caramia(1), U. De Martinis(2), A. R. Di Fazio(3)
1. Department for Technologies, University Parthenope of Napoli, Centro Direzionale di Napoli. Italy
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- 729 Analysis of the impact of charging of Plug-in Hybrid and Electric Vehicles in Spain**
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- 733 Specific Energy Concept Applied to Electronic Equipment in Industrial Processes Having Distributed Generation**
Gómez, Juan Carlos(1), Morcos, Medhat M(2)
1. Rio Cuarto National University, Engineering School, IPSEP. Argentina
2. Kansas State University, Electrical Engineering Department, Manhattan, Kansas. USA
- 735 Power Line Tower Lightning Surge Impedance Computation, a Comparison of Analytical and Finite Element Methods.**
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School of of Electrical Engineering, Universidade Federal de Uberlândia. Brazil
- 738 Evaluation of the Wire-Guard and Grounding Arrangements in Overhead Distribution Feeders Performance Against Lightning**
Roberto J. Cabral(1), Daniel S. Gazzana(1), Roberto C. Leborgne(1), Arturo S. Bretãs(1),
Guilherme A. D. Dias(1), Marcos Telló(2)
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2. State Company of Electrical Energy – CEEE D. Porto Alegre. Brazil
- 739 DFIG using its FACTS Features through the Grid Side Converter in Grid-Connected Wind Power Application**
F. K. A. Lima(1), D. V. P. Shimoda(1), J. B. Almada(1), M. I. B. V. Silva(1), H. M. Oliveira Filho(1),
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- 740 Wind Turbines under Power-Grid Partial Islanding**
F. K. A. Lima(1), H. M. Oliveira Filho(1), J. B. Almada(1), M. I. B. V. Silva(1), D. V. P. Shimoda(1),
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- 741 Obtaining Microalgae Biomass in a Small Scale Reactor**
Leonardo García(1), Xavier Álvarez(1), Kenya Bravo(1), Juan Peralta(2), Alfredo Barriga(2)
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Guayaquil. Ecuador
- 742 Control of Multilevel Current Converter**
A.Leszek Wolski, B.Jan Iwaszkiewicz
The Electrotechnical Institute, Gdansk. Poland
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Kouzou A(1,2,3,4), Abu Rub H(2), Sk Moin Ahmed(2), Mahmoudi M.O(3), Boucherit M.S(3), Kennel R(4)
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746 Harmonic Resonance Study for Wind Power Plant

- K.N Md Hasan(1,2), Kalle Rauma(2), Alvaro Luna(1), J. Ignacio Candela(1), P.Rodriguez(1)
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 2. Aalto University, School of Electrical Engineering. Finland

747 Converter with Wide Input Voltage Range Applied to Solid State Lighting Based on HV9930

- R. A. Lodo, E. A. A. Coelho, F. V. R. Da Silva, A.W.F.V. Silveira, L. C. G. Freitas, J. B. Vieira Jr.
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749 Reactive Power- and Voltage Regulation in Micro Grids

- Istvan Vokony, Andras Dan
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750 Experimental DTC of an Induction Motor Applied to Optimize a Tracking System

- B. Mokhtari(1), A. Ameer(1), M.F. Benkhoris(2), L. Mokrani(1), B. Azoui(3),
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 2. CRTT, IREENA, Saint Nazaire, Polytech'Nantes. France
 3. LEB Laboratory, Electrical Engineering Department, Batna University. Algeria

751 Parameter Identification of a PV Source Dynamic Model with Piecewise-Linear Circuit-Based Approach

- M. C. Di Piazza, M. Luna, G. Vitale
Consiglio Nazionale delle Ricerche, Istituto di Studi sui Sistemi Intelligenti per l'Automazione, (ISSIA – CNR), Palermo. Italy

752 High Frequency Model of PV Systems for the Evaluation of Ground Currents

- M. C. Di Piazza(1), F. Viola(2), G. Vitale(1)
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 2. Università degli Studi di Palermo – DIEETCAM. Italy

753 Study of the behavior of polyvinylidene fluoride (PVDF) under the action of electric field using semi-empirical methods (PM3)

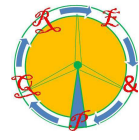
- Elson C. Santos(1), Rafael M. E. Santo(2), Danilo C. Pedrelli(2), Julio C.N. Aires(2), Teodorico C. Ramalho(3), Gunar V.S. Mota(4), Antonio M.J.C. Neto(2)
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757 Multifunctional Single-Phase Single-Stage Grid Connected PV System

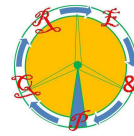
- A. Helal(1), A. Nour(2), I. El-Mohr (1)
1. Department of Electrical and Control Engineering. Arab Academy for Science, Technology and Maritime Transport, Alexandria. Egypt
 2. Faros University, Alexandria. Egypt

759 Analysis and evaluation of energy efficiency of a shrinkwrap-packer

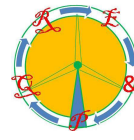
- M. Rinaldi, G. Ferretti, R. Montanari, E. Bottani, G. Vignali, F. Solari, M. Armenzoni, D. Marchini
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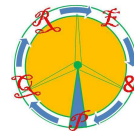
- 762 Prediction of specific fuel consumption in turbocharged diesel engines under partial load performance**
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Mechanical Engineering Department, Universidad Del Norte, Barranquilla. Colombia
- 764 Evaluation of Short-cycle Power Output Fluctuation of High-Penetration Photovoltaic Power Generation Systems using Multi-Points Insolation Data**
Takeyoshi Kato(1), Shinsuke Kumazawa(1), Yasuo Suzuki(1), Nobuhiko Honda(2), Masakazu Koaizawa(2), Shinichi Nishino(2)
1. Department of Electrical Engineering and Computer Science, Nagoya University. Japan
2. Electric Power Research & Development Center, Chubu Electric Power Co., Inc. Japan
- 765 Efficiency Analysis of Single-Phase Photovoltaic Transformer-less Inverters**
M. Martino(1), C. Citro(2), K. Rouzbehi(2), P. Rodriguez(2)
1. Department of Energy Technology at Aalborg University. Denmark
2. Electrical Department at University Politechnique of Catalunya. Spain
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Javier Roldán Pérez, Juan Luis Zamora Macho, Aurelio García Cerrada
ICAI-Universidad Pontificia Comillas, Madrid. Spain
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J. Aponte(1), L. Llano(2), V. Prada(1), A. Martinez(3)
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2. Department of Civil Engineering; U.M.N.G., Military Nueva Granada University. Bogotá. Colombia
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- 770 Pre-Feasibility Analysis of a Desalination Plant Powered by Renewable Energy in Thira, Greece**
Antonio E. Alanís-Noyola(1), Ashreeta Prasanna(1), Thibault Rannou(1), Luis Rojas-Solórzano(2)
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2. Universidad Simón Bolívar, Department of Energy Conversion and Transport. Caracas Venezuela
- 771 Limiting Ramp Rate of Wind Power Output using a Battery Based on the Variance Gamma Process**
D. Lee, R. Baldick
Department of Electrical Engineering. University of Texas at Austin. USA
- 773 Modelling and Dynamic Analysis of Gearless Variable-Speed Permanent Magnet Synchronous Generator Based Wind Energy Conversion System**
M. I. Marei, H. S. K. El-Goharey
Electrical Power and Machines Department, Faculty of Engineering, Ain Shams University, Abbassya, Cairo. Egypt
- 775 DC-DC high gain converter applied to renewable energy with new proposed to MPPT search**
A. Freitas(1), F. Antunes(1), E. Mineiro(2), A. Lima(3), A. Gadelha(1) F. Gualter(1)
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- 776 Operating conditions on the performances of SOFC fuelled with methane**
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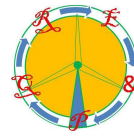
- 780 Sizing and Control of the Electric Power Take Off for a Buoy Type Point Absorber Wave Energy Converter**
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- 781 A Matrix converter-interfaced PM Generator System with Active Filtering Capabilities**
Nathalie Holtsmark, Marta Molinas
Department of Electric Power Engineering, Norwegian University of Science and Technology Trondheim. Norway
- 783 Design and Construction of Radio- Controlled Glider with Renewable Energy Capabilities**
Matan Tubul, Shai Stamker, Etan Fisher
Shamoon College of Engineering (SCE), Beer-Sheva. Israel
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M. Mendoza(1), P. Zorzano(1), A. Falces(1), E. Tarancón(2), E. Zorzano(1), P. Lara(1)
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M. A. Ismeil(1,3), A. Kouzou(2,3), Ralph Kennel(3), A. A. Ibrahim(1) ,M. Orabi(1), M. E. Ahmed(1)
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Engineering Department, University of Sannio, Benevento. Italy
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Department of Mechanical Engineering, Universidad Del Norte, Barranquilla. Colombia
- 791 Biomass Electricity Generation Using Industry Poultry Waste**
M. O. Oliveira(1,2), R. Somariva(3), O. H. Ando Junior(3), J. M. Neto(3), A. S. Bretãs(2)
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- 792 Viability Study for Use of Rice Husk in Electricity Generation by Biomass**
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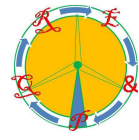
- 793 Design and Analysis of Brushless Self-Excited Three-Phase Synchronous Generator**
M. O. Oliveira(1,2), A. S. Bretãs(1), F. H. García(1), L. Valantus(2), H. E. Muñoz(2), O.E. Perrone(2), J.H. Reversat(2)
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- 799 Power Flow Solution on Multi-Terminal HVDC Systems: Supergrid Case**
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1. School of Electrical and Electronic Engineering, The University of Manchester. United Kingdom
2. Escuela Superior de Ingenieros, Universidad de Sevilla. Spain
3. Department of Electrical and Computer Engineering, University of Cyprus, Nicosia.Cyprus
- 802 Fluent Restoration Modelling Applied to a Real Power System Using Colored Petri Nets**
K.M. Canuto(1), G.C. Barroso(2), M.P. Sales Neto(1), R.F. Sampaio(2), R.P.S. Leão(2) E.B. Medeiros(1)
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- 803 Using Renewable Energy Sources in the Province of Manitoba**
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2. Department of Electrical Engineering. Engineering Information and Technology Complex. University of Manitoba, Winnipeg, MB. Canada
- 805 Selection of domotic systems by AHP based rules weights calculations on models of Fuzzy Rules**
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Department of Electrical Engineering, E.T.S.I.I., University of La Rioja, Logroño. Spain
- 806 Renewable Energies in Vocational Training**
María Otero Prego(1), Juan Ignacio Latorre Biel(2), Emilio Jiménez Macías(3)
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