Abdallah BELLABES, Anour LAIDANI, Amina YACHIR, Allal El Moubarek BOUZID, Riyadh BOUDDOU, Omar Abdelaziz LITIM - Advanced Control of PMSG-based Wind Energy Conversion System Using Model Predictive and Sliding Mode Control


Ahmed Noor El Islam AYAD, "Houari BOUDJELLA, Wafa KRIKA, Ilies REZZAG BARA, Benyekhlief

LAROUCI - Simulation of Electrical Trees Grow in Three-Core Submarine Cable


Małgorzata LATKA - Analysis of selected electric power quality parameters in urban and regional low-voltage power grids with the participation of distributed generation in the selected area

Miroslaw WCIŚLIK, Robert KAZALA - Simulation analysis of a balanced three-phase AC circuit with nonlinear load

Miroslaw PAROL - Microgrids - energy micro-systems supplying energy receivers. Current state and development perspectives

Sotирова BARTEL, Krzysztof KLUSZCZYŃSKI, Zbigniew PILCH - Test stand for determining the distribution of electromagnetic force acting in a linear cylindrical synchronous motor with a permanent magnet

Sebastian BARTEL, Krzysztof KLUSZCZYŃSKI - The issue of selecting the geometric proportions of excitation coils in a linear cylindrical synchronous motor with a permanent magnet as a running gear

Stanislaw CZAPP - Residual current devices in electric vehicles charging installations

Wiktoria GRYCAN – Legislative Assistance for Prosumer Energy within the Framework of Electrical Safety of Power Network

Marek JAWORSKI - The influence of the structure of supports and the phase system on the distribution of electromagnetic fields in the vicinity of 400 kV lines

Jakub Beling, Dorota Rabczuk - Selection of digital filters for measurements of photoplethysmographic signals

Sylwia BERDOWSKA - Analysis of the electricity generation potential in the sloped solar chimney power plant

Michał Effyndy, Dandy Dwi Saputra, Fourry Yudo Setiawan Paisley - Power Flow Analysis of Distributed Generation and Distributed Storage (DGDC) in DC Microgrid Using Newton Raphson Method

Artur BUGALA, Antoni ARENDACZ, Dorota BUGAŁ - Performance evaluation of bifacial photovoltaic module operating in standard and dedicated support structure

Hari Agus Sujono, Achmad Saiful Faris - Design of A Beef Freshness Detector based on Color and Scent with the Mamdni Fuzzy Method

Keltoum MOURADJ, Mustapha KHELEF, Abdesselem BASSOU, Mohamed Rida LAHCENE - Improvement of QoS for 5G System using UTTCM coder over EPA channel

Ahmad BOUSSOUFA, Aimad AHRICHE, Madjid KIDOUCHE, Mohammed Zinelabidine DOGHMANE - Discretization Order Influences on Extended Kalman Filter Estimation for Doubly-Fed Induction Generator

Abderrahim ZEMMIT, Sabir MESSALTI, Abdelghafour HERIZI - Discretization Order Influences on Extended Kalman Filter Estimation for Doubly-Fed Induction Generator using Grey Wolf Optimization Technique

Nur HAMZAH, Suryanto SURYANTO, Muhammad ANDHAR, Firman FIRMAN, Muhammad Ruswandi DJALAL, Muhammad Alif AL AFGAN - Thermodynamic Modelling of Waste to Energy Power Plant: A Case Study in Makassar City, Indonesia

Vadim MANUSOV, Alifbek KIRGIZOV, Murodbek SAFARALIEV, Inga ZICMANE, Svetlana BERYOZKINA, Sherkhon SULTONOV - Stochastic Method for Predicting the Output of Electrical Energy Received from a Solar Panel

Oleksandr Sinyavsky, Vitaliy Savchenko, Andriy Nesviodim, Vasyl Bunko, Vasyl Ramsh, Mykola Potapenko - Influence of the electricity quality on the energy characteristics of agricultural machines


Ilham RAHIMLI, Aliashraf BAKHTYAROV, Gulshan ABDULLAYEVA, Sona RZAYEVA - Application Of Optical Current Sensors In Electric Substations

Ilkin Marufov, Najiba Piriyeva, Nijat Mammadov, Shukufa Ismayilova* - Calculation of induction levitation vertical axis wind generator-turbine system parameters, levitation and influence loop

Andi Abdul Halik LATEKO, Yusri Syam AKIL - A VECM Analysis of the Impact of Economic Growth and Investment on Electricity Consumption in Indonesia

Angati Kalyan KUMAR, Tsehay Admassu ASSEGIE, Ayodeji Olaelek SALAU, Komal Kumar NAPA, Suguna R - Feature Contribution to an In-Depth Understanding of the Machine Learning Model Interpretation

Mustafa HAMIDOV, Elbrus AHMEDOV, Hamida HAMIDOVA, Sona RZAYEVA* - Analysis and development of a mathematical model of the acoustic method for monitoring downhole parameters of the drilling process

Contents
PRZEGLĄD ELEKTROTECHNICZNY Vol 2024, No 2

Contents

31 Anatolii SEMENOV, Stanislav POPOV, Serhii YAKHIN, Bauyrzhan YELEUSSINOV, Tamara SAKHNO - Assessment of the danger of using ultraviolet lamps in electrical systems 152
32 Hryhorii KALETNIK, Vitalii YAROPUD, Yuriy POLIEVODA, Olena SOLONA, Ihor BABYN, Ihor TVERDOKHLIB - Study of the process of active-ventilation drying of legume grasses' fractional processing products 156
33 Nataliia LUTSKA, Nataliia ZAIETS, Lidia VLASENKO - Development of Diagnostic System for the State of Electric Drives of Food Enterprise 164
34 Muhammad Tajammal Chughati - Harvesting voltage using knitted structures 168
35 Hafizuddin Fikri KHAIURUDIN, Suziana AHMAD, Mohd Zaidi Mohd TUMARI, Amirul Syafiq SADUN, Izadora MUSTAFFA - IoT-based Water Surface Cleaning Robot with Live Streaming 172
36 Siti Fatimah SULAIMAN, Nurul Ainì NGATENI, Khairuddin OSMAN, Sharathul Izah SAMSUDIN, Noor Asyikin SULAIMAN, Noorhazirah SUNAR - Modeling and Development of Predictive Controller for Positioning Control of Electro-Hydraulic Actuator (EHA) System 177
37 Wittawat WĂŚUŚATHIEN, Chanchai THONGSOPA, Samran SANTALUNAI, Thanaset THOSDEEKARAPHAT, Nuchanart SANTALUNAI - Measurement of Dielectric Properties in Mixtures of Various Rice Cultivars for Purpose of Detecting Contamination in Industry 182
38 Sabir BAGHIROV, Yulia BASOVA, Liudmyla GUBA, Hryhorii KOZHUSHKO - Prediction of the Service Life of LED Lamps Based on the Extrapolation of the Luminous Flux Conservation Factor 190
39 Saad Alhamid, Omar hamandouch, Ahmed Haj Darwish - A hybrid Bees Algorithm to Enhance the Performance of Radial distribution system 193
40 Antoni Różowicz, Mariusz Deląg - Resonant UV radiation as a function of the frequency of the current in the lamp circuit and the working environment conditions 197
41 Sebastian Różowicz, Mariusz Deląg - Design and tests for compliance with Regulation 65 on the example of a special warning lamp 200
42 Piotr Jankowski, Damian Hallman - Simulation study of the dynamic-thermal properties of an ultra-fast products - dynamic drive 203
43 Maciej WŁODARCZYK, Andrzej ZAWADZKI, Sebastian RÓŻOWICZ - Analysis of the possibility of extending the method of three ordinates and applying to nonlinear elements with hysteresis 209
44 Sebastian RÓŻOWICZ, Maciej WŁODARCZYK, Andrzej ZAWADZKI - Some remarks on the symmetry of passive two-ports in steady and transient states 214
45 Marcin POŁOMSKI, Tomasz KRASZEWSKI, Artur PASIERBEK, Anna PIWOWAR, Magdalena KRASZEWSKA - Structured light scanning method in the detection of workpiece defects 217
46 KAZIMIERZ KAWA, RAFAŁ MULARCZYK, WALDEMAR BAUER, EDYTA KUCHARSKA - Impact of external factors on electricity consumption prediction in office building with photovoltaic supply 221
47 Daniel ZEJLER, Piotr ZIENTEK - Special sensors in fire alarm systems applications 227
48 Tomasz Kossowski, Paweł Szczupak - Analysis of the electric field distribution in the parallel-plate capacitor designed for testing the immunity of electrical devices to lightning electromagnetic pulse 232
49 Piotr Warda - The method of dynamic selection of the clock frequency of the frequency-to-code converter 235
50 Jacek KOZYRA, Zbigniew ŁUKASIK, Aldona KUŚMIŃSKA-FIJAŁKOWSKA - An analysis of selected aspects of transmission capacity for replacement of overhead power lines with cable lines 241
51 Ayoob Alateeq - Design of a three-phase multilevel inverter using a SC cell for photovoltaic use 248
52 Majid H. ABDULLAH, Petar BIŠEVAC, Ratko IVKOVIĆ, Petar SPALEVIĆ, Srđan Milosavljević - Development of Diagnostic System for the State of available energy prediction model for lithium-iron-phosphate cells 255
53 T Praveen Kumarar, S Ganapathy, M Manikandan - Voltage Stability Analysis for Grid Connected PV System using Optimized Control on IOT based ANFIS 259
54 Titiek Suheta, Syahri Muharom, Misbahul Munir - Analysis of Monocrystalline and Polycrystalline Solar Panels in Small-Scale Power Generation Systems Based On Microcontrollers 267
55 Abdelhalim Ghediri, Noureddine Goléa - Induction motor failures detection using Motor Current Signal Analysis (MCSA) and two-step Support Vector Machine (SVM) classifier 272
56 Taha RACHDI, Yahia SAOUDI, Linbi CHRIFI-ALAOUI, Ayachi ERRACHDI - Performance Enhancement of Smart Grid Using an Optimal Placement of FACTS: Case of TCSC 279
57 Irena DROFOVÁ, Martin HROMADA, Milan ADAMEK, Jan VALOUCH, Pavel WANECKI - 360 scanning devices for the reconstruction of 3D digital twins 286
58 Hemza Medouki, Boubaeker Zegnini, Mossadek Guibadj - Study of DC Voltage Effects on the Electrical Treeing Phenomenon in XLPE Insulating Materials 290
59 Damian BURZYŃSKI, Leszek KASPRZYK - State of available energy prediction model for lithium-iron-phosphate cells 294