

What is the Journal of control automation & electrical systems?

Journal of Control, Automation and Electrical Systems publishes original research papers as well as tutorials on industrial automation, intelligent systems, robotics, instrumentation, power electronics, power systems and control theory and applications.

What is Electric Power Systems Research?

An international journal devoted to research and new applications in generation, transmission, distribution and utilization of electric power Electric Power Systems Research is an international medium for the publication of original papers concerned with the generation, transmission, distribution and utilization of electrical energy.

What is the scope of Electric Power Systems Research?

The scope of Electric Power Systems Research is broad, encompassing all aspects of electric power systems. The following list of topics is not intended to be exhaustive, but rather to indicate topics that fall within the journal purview.

Does intelligent application system support digital transformation of new power systems?

Abstract: The digital transformation of new power systems needs the support of intelligent application system. Firstly, the critical challenges in the construction of intelligent application for the new power system are discussed.

How to solve a power system problem?

In power system problem-solving, conventional approaches such as practical numerical optimization methods (e.g. lambda iteration and Newton-Rapson methods) have been used. Optimization problems are non-linear and, with the various constraints included, these optimization problems become slow and complex.

How does artificial intelligence affect power systems?

As different artificial intelligence (AI) techniques continue to evolve, power systems are undergoing significant technological changes with the primary goal of reducing computational time, decreasing utility and consumer costs and ensuring the reliable operation of an electrical power system.



Therefore, in this paper, This paper mainly analyzes the development of power system automation under the electrical engineering and automation technology, and then puts forward the following contents, hoping to provide the corresponding reference value to the staff of the same industry. Journal of Modern Power Systems & Clean Energy 7 741



Electric Power system automation includes monitoring, evaluation, analysis, and control of processes associated with generation and transmission of electric energy from power stations to customers



The scope of Electric Power Systems Research is broad, encompassing all aspects of electric power systems. The following list of topics is not intended to be exhaustive, but rather to indicate topics that fall within the journal purview.



? This paper proposes a novel multi-objective optimization framework for balanced distribution system planning, based on the allocation and sizing of distributed energy resources (DERs) and capacitor banks (CBs), along with static network reconfiguration. Each individual strategy, involving DERs, CBs, and network reconfiguration, is systematically performed and ???



Dianli Xitong Zidonghua/Automation of Electric Power Systems Journal Impact IF Ranking. Subcategory Quartile Rank Percentile; Energy Engineering and Power Technology: Q1 46/224: Energy Engineering and Power Technology



Thus, to highlight the latest solutions and paradigms in the modeling and simulation of electrical power systems, this Special Issue, entitled: "Modeling and Simulation for the Electrical Power System", is proposed for the Mathematics journal published by MDPI. It is an international, peer-reviewed, open access journal indexed by several



The Athens Automation and Control Experiment (AACE) was conceived as an integration and extension of the evolving technologies and systems applicable to monitoring and control of electric



Q1 (green) comprises the quarter of the journals with the highest values, Q2 (yellow) the second highest values, Q3 (orange) the third highest values and Q4 (red) the lowest values. The SJR is a size-independent prestige indicator that ???



Electric Power Systems Research is an international medium for the publication of original papers concerned with the generation, transmission, distribution and utilization of electrical energy. The journal aims at presenting important results of work in this field, whether in the form of applied research, development of new procedures or





Volume 33, issue 2 articles listing for Journal of Control, Automation and Electrical Systems. Skip to main content. Comparative Performance of Three Phasor-Extraction Algorithms for Co-simulation of Electrical Power Systems. Thainan S. Theodoro; Pedro G. Barbosa; Antonio C. S. Lima; OriginalPaper 01 October 2021 Pages: 561 - 573



About: Journal of Control, Automation and Electrical Systems is an academic journal published by Springer Science+Business Media. The journal publishes majorly in the area(s): Computer science & Control theory. It has an ISSN identifier of 2195-3899. Over the lifetime, 1007 publications have been published receiving 6382 citations.



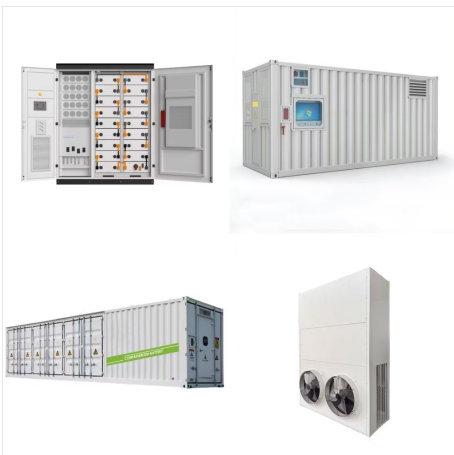
Journal of Control, Automation and Electrical Systems - Poor asset-management practices can be considered one of the primary sources of high financial costs of electric power companies. Moreto, M., & Ramos, R. A. (2018). A belief???desire???intention multi-agent architecture for efficient power plant disturbance analysis. Journal of Control



This paper tackles the key challenges for dynamics, control, and automation of power systems that are imposed by the integration of renewable power plants. First, the current practice of automation and control in large-scale power systems are reviewed.



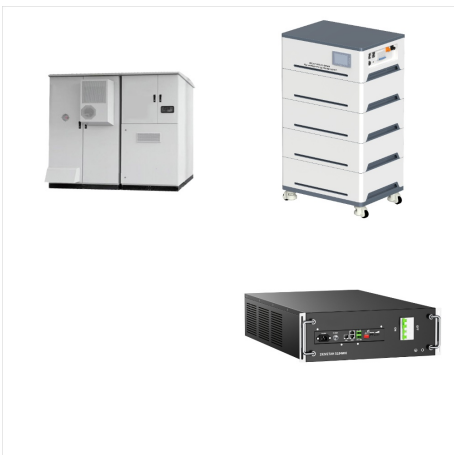
2.1 The Concept of Power System Automation Technology. Power system automation technology refers to the use of various has the function of automatic detection and control device, through the data transmission system and signal system will each element of the power system, local system, or the whole system for automatic monitoring, coordination ???



International Journal of Development Research, 2023. The purpose of the scientific paper is to analyze the issues of improving the management of the supervisory control and data acquisition (SCADA) automated system in electric power, which includes a comparative analysis of the development stages of the SCADA system, the use of cloud technologies, the introduction of ???



Electricity is a fundamental resource for modern society. However, some threats are faced by electrical power distribution systems, which are responsible for delivering electricity to end consumers. Analysing how much time these hazards will threaten these systems, causing failure events, is an essential area of study. Through statistical methods, it is possible to study ???



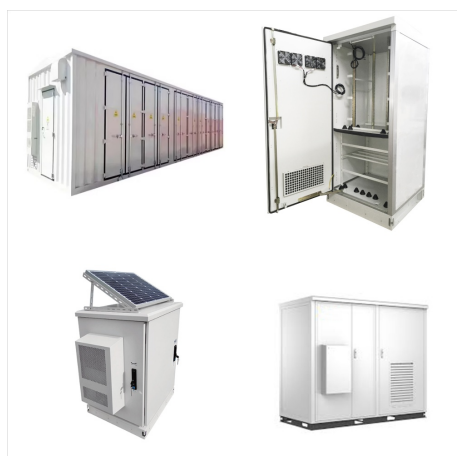
The electric and magnetic fields generated by transmission lines, at ground level, must be carefully analyzed to ensure low levels of induced voltage in surrounded metallic elements. Additionally, whenever possible, one main concern on transmission lines projects should be improving maximum line power transfer capability. Thus, this paper aims to present ???



Automation of electric power systems is an academic journal. The journal publishes majorly in the area(s): Electric power system & Fault (power engineering). It has an ISSN identifier of 1000-1026. Over the lifetime, 4048 publications have been published receiving 23109 citations.



The vibration on-line monitoring system of power transformer is an important part of power equipment on-line monitoring technology whose model should meet the requirements of IEC 61850. Based on an



The Impact IF 2023 of Dianli Xitong Zidonghua/Automation of Electric Power Systems is 5.29, which is computed in 2024 as per its definition. Dianli Xitong Zidonghua/Automation of Electric Power Systems IF is increased by a factor of 0.93 and approximate percentage change is 21.33% when compared to preceding year 2022, which ???



Power-system automation is the act of automatically controlling the power system via instrumentation and control devices. Substation automation refers to using data from Intelligent electronic devices (IED), control and automation capabilities within the substation, and control commands from remote users to control power-system devices.





Electric Power Components and Systems publishes original theoretical and applied papers of permanent reference value related to the broad field of electric machines and drives, power electronics converters, electromechanical devices, electrical equipment, renewable and sustainable electric energy applications, and power systems.. Specific topics covered include:



Those familiar with industrial instrumentation will find much within the electric power industry remarkably familiar in concept. In industrial instrumentation, we apply principles of physics, electricity, and chemistry to the measurement and automation of a wide range of "processes".



The present work is a survey on aircraft hybrid electric propulsion (HEP) that aims to present state-of-the-art technologies and future tendencies in the following areas: air transport market, hybrid demonstrators, HEP topologies applications, aircraft design, electrical systems for aircraft, energy storage, aircraft internal combustion engines, and management and control ???



Aim and Scope. The Dianli Xitong  
Zidonghua/automation Of Electric Power Systems is  
a research journal that publishes research related to  
Computer Science; Energy; Engineering. This  
journal is published by the Automation of Electric  
Power Systems Press. The ISSN of this journal is  
10001026. Based on the Scopus data, the SCImago  
Journal Rank (SJR) of dianli xitong ???