Performance of Wind Energy Conversion System during Symmetrical fault & Power Quality Improvement of Grid-Connected WECS by UPFC

Publisher: IEEE

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Abstract: The demand for the power generation from wind is constantly growing. This situation forces the revision of the grid codes requirements, to remain connected during grid fa... **View more**

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Abstract:
The demand for the power generation from wind is constantly growing. This situation forces the revision of the grid codes requirements, to remain connected during grid faults. Immediately the voltage level will drop below 80% when fault occurs at PCC (Point of Common Coupling) and the rotor speed of IG (Induction Generators) becomes unstable. In this work, UPFC are used under fault condition to improve the LVRT (Low Voltage Ride-Through) of WECS (wind energy conversion system) and damping of rotor speed oscillations of IG. Furthermore, after the fault UPFC act as virtual inductor, leads to increase in terminal voltage of WECS. WECS with DFIG-based system is considered for analysis here. By simulating DFIG-based WECS with UPFC indicates the improvement in LVRT & remains and WTGs continues to operate with grid at certain voltage fluctuations, near grid. Also, indicates voltage improvement at PCC under fault conduction, and voltage is recovered easily to 1pu at PCC.

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A Novel ATM Security System using a User Defined Personal Identification Number With the Aid of GSM Technology

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H Swathi ; Suraj Joshi ; M.K. Kiran Kumar **All Authors**

Abstract: In contrast to the past, Automatic Teller Machines (ATMs) are widely used due to their simplicity and extensive availability. Presently, ATM systems use no more than an a... **View more**

Metadata

Abstract:

In contrast to the past, Automatic Teller Machines (ATMs) are widely used due to their simplicity and extensive availability. Presently, ATM systems use no more than an access card which usually has a magnetic stripe (magstripe) and a fixed Personal Identification Number (PIN) for identity verification. Some other cases utilize a chip and a PIN which sometimes has a magstripe in case the chip fails as a backup for identification purposes. This method is not very secure and prone to increase in criminal activities. The need for a novel, simple as well as secure method of access is thus imperative. In the present work, a PIN is generated by the user and this PIN is made available to the ATM system by the means of a Subscriber Identity Module(SIM) in the user's Mobile Phone. This information is communicated to a Global System for Mobile Communications (GSM) module embedded into the ATM's functional framework. This method of security is more stable than the traditional methods presently in use. The method presented is dynamic due to the possibility of changing the User Defined PIN(UDPIN) in each and every transaction. Losing the access card no longer becomes a big problem to the user and the need for immediate deactivation is also eliminated. It can also be enhanced by including other security features without large number of modifications. A simple prototype employing this security function has been implemented and the results are verified. The proposed system has been tested extensively and proves to be a simpler and better security measure.

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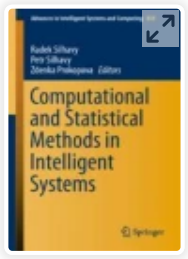

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Effectiveness of Recent Research Approaches in Natural Language Processing on Data Science-An Insight

J. Shruthi & Suma Swamy

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Abstract

With the exponentially increasing size and complexity of the data in present time, data quality has become a major concern with respect to data analytics. The potential capability of Natural Language Processing (NLP) is already known and being harnessed by various researchers to evolve up with some significant analytical process. However, there is less number of research works emphasizing on applying NLP over the data with

complexity reported in current times in the area of big data. Therefore, the primary contribution of this manuscript is to review the most recent work towards NLP based approaches for data analysis where input data could be either text or non-textual too. The secondary contribution is to gauge the level of effectiveness from the existing research approach with NLP-based practices towards leveraging better data quality in data science.

Keywords

Data science **Natural Language Processing** **Text mining** **Analytics** **Big Data** **Cloud** **Clustering**