Research Title

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Abstract

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PII: S232251141200001-1

Hybrid Energy Production System with PV Array and Wind Turbine and Pitch Angle Optimal Control
Original Research, A1

Hosseini H., Farsadi M., Khalilpour M., Razmjooy N.


ABSTRACT: In the 21st century because of expensive fossil

Keywords: Wind Turbine, Photo Voltaic (PV), Genetic Al

PII: S232251141200002-1

Optimum Design of PSS and SVC Controller for Damping Low Frequency Oscillation (LFO)
Original Research, A2

Hosseini H., Tusi B., Razmjooy N., Khalilpour M.


ABSTRACT: The development of the demand for electrical energy leads to loading the transmission system close to their limits that increases the risk of power system stability. This paper studies the stability of the power system with SVC (static var compensator) and PSS (power system stabilizer) with PID controllers. The simulation show that the SVC with PID controllers is more effective in damping LFO compared to PSS with PID controllers.

Keywords: 3 to 5 keyword or phrases.

Hot paper

PII: S232251141200003-1

An Efficient Algorithm for Lip Segmentation in Color Face Images Based on Local Information
Kalbkhani H, Chehel Amirani. M.


ABSTRACT:
Lip detection is used in many applications such as face detection and lips reading. In previous works, researchers have used different methods for lip detection such as ... on CVL face database. Our experiments show that new algorithm gives better results than previous works on this database.

Keywords: lip detection, skin, saturation, standard deviation.

PII: S232251141200004-1
Zali Varghahan B and Chehel Amirani M.


ABSTRACT: This paper propose the use threshold technical and artificial neural network (ANN) for clean and enhancement scanned images. The recognition process of handwritten is a preprocessing for system handwritten recognition that we do this work in this paper.

Keywords: threshold technical, artificial neural network, handwritten recognition, clean image, multilayer perceptron

PII: S232251141200005-1

Video Streaming over Wireless Mesh Networks

Original Research, A5
Wireless mesh networks (WMNs) have emerged as a key technology for next-generation wireless networking. In these networks, the clients and routers perform highly specific tasks, such as video coding and wireless channel specifications, with focuses on video surveillance systems. Further research and development in this area could lead to improved network performance and efficiency.

Keywords: Wireless mesh network; Client; Router; Video...

PII: S232251141200006-1

Novel Methods with Fuzzy Logic and ANFIS Controller Based SVC for Damping Sub-Synchronous Resonance and Low-Frequency Power Oscillation
A Lak, Nazarpour D, Ghahramani H.


**ABSTRACT:** A long transmission line needs controllable series as well as shunt compensation for power flow control and voltage support. In this paper, the authors propose a method to mitigate Sub-Synchronous Resonance (SSR) by installing the SVC. The MATLAB/Simulink software program was used to verify the effectiveness of each control method.

**Keywords:** Sub-Synchronous Resonance (SSR), Static VAR Compensator (SVC), Fuzzy Logic Controller (FLC), Adaptive Neuro-Fuzzy Inference System (ANFIS), Fast Fourier Transform (FFT).

**PII:** S232251141200007-1

**Mitigating SSR in Hybrid Wind-Turbine with TCSC Based Fuzzy Logic Controller and Adaptive Neuro Fuzzy Inference System Controller**

Original Research, A7

Hosseini H. and Tousi B.
ABSTRACT: The increasing requirement to the clean and renewable energy has led to the rapid development of wind power systems all over the world. One of the main problems of these systems is the oscillation of the grid voltage, which is a result of the intermittent nature of wind generator's output. To solve this problem, a combination of synchronous wind generator based wind turbine. Finally the operation of two controllers have been compard.

Keywords: 3 to 5 keyword or phrases.

PII: S232251141200008-1

A Novel Method for Designing PSS-AVR by Imperialist Competitive Algorithm (ICA) for three-area AGC System

Hosseini H. and Tousi B.
Abstract – Automatic Generation Control (AGC) is a very imperative issue in power system operation for providing electric power systems with the necessary level of reliability and security. In this paper, automatic voltage regulator (AVR) and automatic generation control (AGC) for power system has been designed and implemented. Also, the values of the controller’s parameters by using imperialist competitive algorithm (ICA) has been proposed. Finally the results have been compared.

Keywords: Automatic Generation Control (AGC), proportional integral derivative (PID), automatic voltage regulator (AVR), imperialist competitive algorithm (ICA)