PIL: 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 fuels, usage of clean energy such as solar energy, wind energy, etc. has increased. In order to optimal control of pitch angle at high speed of wind, genetic algorithm has been used.

Keywords: Wind Turbine, Photo Voltaic (PV), Genetic Algorithm (GA), Maximum Power Point Tracking (MPPT), 12Pulses Inverter, Optimal Control.

PII: S232251141200002-1

Optimum Design of PSS and SVC Controller for Damping Low Frequency Oscillation (LFO)
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 ... 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 ... 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.

Enhancement and Cleaning of Handwritten Data by using Neural Networks and Threshold Techniques
ABSTRACT: This paper propose the use threshold technical and artificial neural network (ANN) for clean and enhancement scanned images. Process of cleaning image is the 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
ABSTRACT: Wireless mesh networks (WMNs) have emerged as a key technology for next-generation wireless networking. Wireless mesh networks are a key technology for next-generation wireless networking. The focus of this paper is on the integration of wireless mesh networks with video surveillance systems. The paper presents a novel method for the integration of wireless mesh networks with video surveillance systems, with focuses on video coding and wireless channel specifications.

Keywords: Wireless mesh network; Client; Router; Video coding; Wireless channel specifications.
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 stability. The Series Compensation (SC) and Static VAR Compensator (SVC) will help prevent Sub-Synchronous Resonance (SSR) occurrences in transmission systems. However, the SVC is more flexible than the SC in controlling the reactive power. 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-Steam Turbine with TCSC Based Fuzzy Logic Controller and Adaptive Neuro Fuzzy Inference System Controller

Original Research, A7

Hosseini H. and Tousi B.
A Novel Method for Designing PSS-AVR by Imperialist Competitive Algorithm (ICA) for three-area AGC System

Original Research, A8

Hosseini H. and Tousi B.
Abstract – Automatic Generation Control (AGC) is a very imperative issue in power system operation for providing electric energy to consumers. In this study, a novel method for determining the optimal tuning 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).