Hybrid Energy Production System with PV Array and Wind Turbine and Pitch Angle Optimal Control by Genetic Algorithm (GA)
ABSTRACT: In the 21st century because of expensive fossil fuels, usage of clean energy such as solar energy, wind energy, etc. will increase. One of the main issues in the wind energy is the energy control of the generator. To control the energy of the wind generator, the q-axis current and the active power are constant. 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), 12 Pulses Inverter.
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.

**PII:** S232251141200004-1

Enhancement and Cleaning of Handwritten Data by using Neural Networks and Threshold Techniques
This paper proposes the use of threshold techniques and artificial neural networks (ANN) for cleaning and enhancing scanned images. The process of cleaning images is a preprocessing step for a system for handwritten recognition, which is the work done in this paper.

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

**PII:** S232251141200005-1

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**Video Streaming over Wireless Mesh Networks**

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**Original Research, A5**
ABSTRACT: Wireless mesh networks (WMNs) have emerged as a key technology for next-generation wireless networking. This paper presents a novel method for deploying WMNs in surveillance systems, focusing on video coding and wireless channel requirements.
Mitigating SSR in Hybrid C Based Fuzzy Logic Controller and Adaptive Neuro Fuzzy Inference System  

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. In this paper, a new approach in designing a novel power system stabilizer (PSS) and automatic voltage regulator (AVR) is proposed. The proposed methodology is based on an imperialist competitive algorithm (ICA) and it is applied to a three-area automatic generation control (AGC) system. Finally the operation of two controllers have been compared.

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

Original Research, A8

Hosseini H. and Tousi B.
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<td>Keywords:</td>
<td>Automatic Generation Control (AGC), proportional integral derivative (PID), automatic voltage regulator (AVR), imperialist competitive algorithm (ICA)</td>
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