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Transient stability enhancement of multi-machine power systems using a distributed power controller has been discussed in [7]. Power system stability enhancement by damping and control of SSR (Subsynchronous resonance) using large scale PV-plant has been discussed in [8], [9]. In [10], a large scale PV system is controlled for the alleviation of power system oscillations.

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Stability Enhancement of a Multi-machine System using a Generalized Unified Power Flow Controller (GUPFC) Ha Thi Nguyen, Li Wang. ...

The proposed GUPFC is designed to contribute adequate damping characteristics and enhance power quality of the studied multi-machine system under various operating conditions using MATLAB/SIMULINK toolbox. A time ...

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Due to the extensive use of PSS as a stability controller, various techniques have been used for its design. In , a chaotic optimization algorithm (COA) is used for PSS parameter design for multi-machine system suffering from severe fault conditions. The proposed method had superiority in damping the oscillations over other conventional and General Algorithm (GA) based PSS design.

Amended GWO approach based multi-machine power system ...

Stability Enhancement of Multi-Machine Power System

interconnected with Wind and PV plants Using Fuzzy Logic-based FACTS Controller Abou-Hashema M El-Sayed¹, Hassan A Sayed², Ahmed A Zaki Diab^{3,*}, Yahia B Hassan⁴ 1,2,3

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system using a Unified Power Flow Controller | A Unified Power Flow Controller (UPFC) in Multi machine system is proposed. The UPFC model ...

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Stability Enhancement of Multi Machine system using a Unified Power Flow Controller. Abstract A Unified Power Flow Controller (UPFC) in Multi machine system is proposed. The UPFC model is having a voltage source. The magnitude and angle of this voltage source depends on the UPFC control parameters.

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Transient Stability Enhancement in
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plants Using Fuzzy Logic-based
FACTS Controller Abou- Hashema M
El-Sayed¹, Hassan A Sayed², Ahmed A
Zaki Diab^{3,*}, Yahia B Hassan⁴ ^{1,2,3}
Dept of Electrical Engineering, Faculty
of Engineering,

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This paper presents the transient
stability enhancement of a
multimachine system using series
FACTS controllers. Series FACTS
controller devices, i.e. TCSC, SSSC and

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UPFC, have been used in this paper for enhancing the transient stability of the system. Time-domain simulations are carried on PSAT (power system analysis tool box).

Enhancement of Transient Stability of Multimachine System ...

Transient Stability Enhancement in Multi-Machine Power System by using Power System Stabilizer (Pss) and Static Var Compensator (Svc)
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Transient Stability Enhancement of Multi-Machine Power Systems: Synchronization via Immersion of a Pendular System W. Dib Wissam Dib (corresponding author) is with Department of Control systems, IFP

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Transient Stability Enhancement of Multi Machine Power ...

A comprehensive review on stability analysis in multimachine power system is presented in this study. The increasing demand of power has led to the expansion of power system and complexity in design as well as operation. This threatens to deteriorate the stability and reliability in the power network.

Comprehensive review on

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This study presents the application of Unified Power Flow Controller (UPFC) to improvement dynamic stability of a multi-machine electric power system installed with UPFC. Since UPFC is considered to mitigate Low Frequency Oscillations (LFO) and stability enhancement, therefore a supplementary stabilizer based on UPFC (like power system stabilizer) is designed to reach the defined purpose.

Dynamic Stability Enhancement of a
Multi Machine Electric ...

Dynamic Stability Enhancement of
Power Systems Using Neural-Network
Controlled Static-Compensator D
Harikrishna, N V Srikanth Dept. of
Electrical Engineering, National
Institute of Technology Warangal,

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Andhra Pradesh, India ... Modeling of multi-machine power system is obtained by considering the three-machine nine-bus system. Generator1 is ...

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