عنوان مقاله:

Transient Stability Prediction by Fuzzy System for to Be Minimum and Recognition of Necessity of Implementing Generator Tripping

محل انتشار:

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خلاصه مقاله:

In this paper use a new method for predicting the rotor angle stability status of a power system immediately for to be minimum and recognition of necessity of implementing generator tripping after a large disturbance is presented. By predicting transient stability status of power system, better control actions can be taken. For instance, use can be made of this predictor to initiate important relay operations such as out-of-step blocking and tripping, or other control actions. Although it should tripped generator before instability, and on one hand,instability obvious after some times of fault occurs therefore it must predict instability that could do the controlling method in a proper time. Instability of power system usually evaluate from rotor angle oscillation. In this paper predict the rotor angle by using the fuzzy system. After prediction of instability,the least number of generator tripping is calculated based on rotor angle then it do controlling method of generator tripping by helping the fuzzy controller.Simulations are done by MATLAB and DIgSILENT software on a 9 base system with 3 generators and it gives acceptable results.

کلمات کلیدی:

Fuzzy System, prediction, Rotor angle, Generator Tripping

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