

## عنوان مقاله:

A New Algorithm to Detect Power Swing and Improve Operation of Distance Relays Zone 3 by Use Of PMU

## محل انتشار:

هشتمین کنفرانس تخصصی حفاظت و کنترل سیستم های قدرت (سال: 1392)

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## خلاصه مقاله:

Cascaded tripping of transmission lines due to mal-operation of zone 3 distance relays is main reason of blackouts worldwide and the main reason of these mal-operations is power swing. This paper presents a new approach to power swing detection by using synchronized phasor measurements data and prevent undesirable zone 3 distance relays tripping during stable power swings. Results are presented based on simulation studies carried out on a 400 kV system, using EMT DC/PSCAD. The PMU is simulated in MATLAB.

## کلمات کلیدی:

distance relay zone 3; phasor measurement unit (PMU); power swing detection

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/335298>

