

Title (en)
SYSTEMS AND METHODS FOR A REAL-TIME SYNCHRONIZED ELECTRICAL POWER SYSTEM SIMULATOR FOR "WHAT-IF" ANALYSIS AND PREDICTION OVER ELECTRICAL POWER NETWORKS

Title (de)
SYSTEME UND VERFAHREN FÜR EINEN ECHTZEIT-SYNCHRONISIERTEN ELEKTROSYSTEMSIMULATOR ZUR »WAS-WÄRE-WENN - ANALYSE UND VORAUSBERECHNUNG VON STROMNETZWERKEN

Title (fr)
SYSTÈMES ET PROCÉDÉS POUR UN SIMULATEUR DE SYSTÈME ÉLECTRIQUE SYNCHRONISÉ EN TEMPS RÉEL POUR UNE ANALYSE 'PAR SIMULATION' ET UNE PRÉDICTION SUR LES RÉSEAUX DE GÉNÉRATION ÉLECTRIQUE

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Abstract (en)
[origin: WO2008052042A2] A system for real-time modeling of electrical system performance is disclosed. The system includes a data acquisition component, a power analytics server and a client terminal. The power analytics server is comprised of a virtual system modeling engine, an analytics engine and a power system simulation engine. The virtual system modeling engine is configured to generate predicted data output utilizing a first virtual system model. The analytics engine is configured to synchronize the first virtual system model when a difference between the real-time data output and the predicted data output exceeds a threshold. The power system simulation engine is configured to store and process patterns and facilitate modification of parameters on the first virtual system model to create a second virtual system model; and forecast an aspect of the electrical system operating under parameters of the second virtual system model. The client terminal displays the forecasted aspects.

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Citation (search report)
• [X] WO 2006037231 A1 20060413 - PATEL SURESHCHANDRA B [CA]
• [I] US 2003040897 A1 20030227 - MURPHY THOMAS ANDREW [US], et al
• [A] WO 2005109122 A1 20051117 - FISHER ROSEMOUNT SYSTEMS INC [US], et al
• [A] US 2004158417 A1 20040812 - BONET ANTONIO TRIAS [ES]
• See references of WO 2008052042A2

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