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Zhang, ZC and Hong, WC

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Along with the deregulation of electric power market as well as aggregation of renewable resources, short term load forecasting (STLF) has become more and more momentous. However, it is a hard task due to various influential factors that leads to volatility and instability of the series. Therefore, this paper proposes a hybrid model which combines empiric ... Show more

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Li, MW; Xu, DY; (...); Hong, WC

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Fan, GF; Yu, M; (...); Hong, WC

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This paper develops a novel short-term load forecasting model that hybridizes several machine learning methods, such as support vector regression (SVR), grey catastrophe (GC (1,1)), and random forest (RF) modeling. The modeling process is based on the minimization of both SVR and risk. GC is used to process and extract catastrophe points in the lo ... Show more

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Accurate load forecasting is helpful for optimizing the use of power resources. To this end, this investigation proposes a hybrid model for short-term load forecasting, namely the RF-MGF-RSM model, that hybridizes random forest (RF) model and the mean generating function (MGF) model. A time variable, a random forest forecasting value, and a forecasti ... Show more

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