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Zhang, ZC and Hong, WC

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Accurate electric load forecasting is critical in guaranteeing the efficiency of the load dispatch and supply by a power system, which prevents the wasting of electricity and facilitates energy sustainability. Applications of hybrid intelligent computing methods and swarm-based algorithms with the support vector regression (SVR) model are very p ... Show more

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Short term load forecasting based on feature extraction and improved general regression neural network model

Liang, Y; Niu, DX and Hong, WC

Jan 1 2019 | ENERGY 166, pp.653-663

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 whi ... Show more

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Forecasting short-term electricity load using hybrid support vector regression with grey catastrophe and random forest modeling

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 ... Show more

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Applications of random forest in multivariable response surface for short-term load forecasting

Fan, GF; Zhang, LZ; (...); Dong, SQ

Jul 2022 | INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS 139

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 forec ... Show more

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