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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 promising for solving the problem of premature ... Show more
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2 Electric load forecasting by complete ensemble empirical mode decomposition adaptive noise and support vector regression with quantum-based dragonfly algorithm
Zhang_ZC and Hong_WC
Oct 2019 | NONLINEAR DYNAMICS 98 (2) , pp.1107-1136
Accurate electric load forecasting can provide critical support to makers of energy policy and managers of power systems. The support vector regression (SVR) model can be hybridized with novel meta-heuristic algorithms not only to identify fluctuations and the nonlinear tendencies of electric loads, but also to generate satisfactory forecasts. However, many such algorithms have num ... Show more
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3 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 which combines empirical mode decomposition (EMD), minir ... Show more
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4 Chaos cloud quantum bat hybrid optimization algorithm
Li_MW; Wang_YT; (...); Hong_WC
Jan 2021 | Jan 2021 (Early Access) | NONLINEAR DYNAMICS 103 (1) , pp.1167-1193
The bat algorithm (BA) has fast convergence, a simple structure, and strong search ability. However, the standard BA has poor local search ability in the late evolution stage because it references the historical speed; its population diversity also declines rapidly. Moreover, since it lacks a mutation mechanism, it easily falls into local optima. To improve its performance, this paper develops ... Show more
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5 Forecasting short-term electricity load using hybrid support vector regression with grey catastrophe and random forest modeling
Fan_GF; Yu_M; (...); Hong_WC
Dec 2021 | Sep 2021 (Early Access) | UTILITIES POLICY 73
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 long term to reduce randomness. F ... Show more
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6 Applications of random forest in multivariable response surface for short-term load forecasting
Fan_GF; Zhang_LZ; (...); Dong_SQ
Jul 2022 | Feb 2022 (Early Access) | 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 forecasting value by MGF are used as the ... Show more
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