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Application of variational mode decomposition and chaotic grey wolf optimizer with support vector regression for forecasting electric loads

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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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. Howev ... 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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A hybrid approach for forecasting ship motion using CNN-GRU-AM and GCWOA

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

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The motion of a ship, which has six degrees of freedom, is a complex nonlinear dynamic process with variable periodicity and chaotic characteristics. With the development of smart ships, modern high-precision equipment needs the help from high accuracy of ship motion (SHM) forecasting. Existing models will not easily be able to satisfy future ... Show more ▾

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Optimization approach of berth-quay crane-truck allocation by the tide, environment and uncertainty factors based on chaos quantum adaptive seagull optimization algorithm

Li, MW; Xu, RZ; (...); Yeh, YH

Feb 2024 | APPLIED SOFT COMPUTING ▾ 152

The post-epidemic era has led to the accumulation of cargo, which has brought greater pressure to container ports. Since traditional methods cannot simultaneously consider the effect of tidal, uncertain, and environmental factors on the allocation plan. To relieve this pressure, firstly, considering tidal factors, formulating time window rules, thi ... 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

Dec 2021 | 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 ... Show more ▾

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

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