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1 **Short term load forecasting based on phase space reconstruction algorithm and bi-square kernel regression model**

Fan, GF; Peng, LL and Hong, WC

Aug 15 2018 | APPLIED ENERGY 224 , pp.13-33

Short term load forecasting (STLF) is an important issue for an electricity power system, to enhance its management efficiency and reduce its operational costs. However, STLF is affected by lots of exogenous factors, it demonstrates complicate characteristics, particularly, the multi-dimensional nonlinearity. Therefore, it is desired to extract son ... Show more

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2 **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 ... Show more

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3 **Electric Load Forecasting by Hybrid Self-Recurrent Support Vector Regression Model With Variational Mode Decomposition and Improved Cuckoo Search Algorithm**

Zhang, ZC; Hong, WC and Li, JC

2020 | IEEE ACCESS 8 , pp.14642-14658

Accurate electric load forecasting is critical not only in preventing wasting electricity production but also in facilitating the reasonable integration of clean energy resources. Hybridizing the variational mode decomposition (VMD) method, the chaotic mapping mechanism, and improved meta-heuristic algorithm with the support vector regression (SVI ... Show more

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4 **Novel chaotic bat algorithm for forecasting complex motion of floating platforms**

Hong, WC; Li, MW; (...); Zhang, Y

Aug 2019 | APPLIED MATHEMATICAL MODELLING 72 , pp.425-443

This paper presents a model for forecasting the motion of a floating platform with satisfactory forecasting accuracy. First, owing to the complex nonlinear characteristics of a time series of floating platform motion data, a support vector regression model with a hybrid kernel function is used to simulate the motion of a floating platform. Second, the propo ... Show more

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5 **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, m ... Show more

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6 **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 ... Show more

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7 **Machine Learning Adoption in Blockchain-Based Smart Applications: The Challenges, and a Way Forward**

Tanwar, S; Bhatia, Q; (...); Hong, WC

2020 | IEEE ACCESS 8 , pp.474-488

In recent years, the emergence of blockchain technology (BT) has become a unique, most disruptive, and trending technology. The decentralized database in BT emphasizes data security and privacy. Also, the consensus mechanism in it makes sure that data is secured and legitimate. Still, it raises new security issues such as majority attack and double-s ... Show more

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