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- Short term load forecasting based on phase space reconstruction algorithm and bi-square kernel regression model** 98 Citations

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 some valuable features embedded in the time series, to demonstrate the relationships of the no ... [Show more](#)

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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 a hybrid approach to improving its evolution mech ... [Show more](#)

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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 proposed chaotic efficient bat algorithm, based on the chaotic, niche search, and evol ... [Show more](#)

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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 (SVR) model is crucial to preventing the premature problem and providing satisfact ... [Show more](#)

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Fan, GF; Peng, LL; (...); Sun, F  
Jan 15 2016 | NEUROCOMPUTING 173 , pp.958-970

Electric load forecasting is an important issue for power utility, associated with the management of daily operations such as energy transfer scheduling, unit commitment, and load dispatch. Inspired by strong non-linear learning capability of support vector regression (SVR), this paper presents a SVR model hybridized with the differential empirical mode decomposition (DEMD) method and auto regression (AR) for electric load forecas ... [Show more](#)

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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 numerous drawbacks, such as a low population div ... [Show more](#)

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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), minimal redundancy maximal relevance (mRMI ... [Show more](#)

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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-spending. To handle the aforementioned issues, data analytics is required on blockch ... [Show more](#)

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