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1 Application of variational mode decomposition and chaotic grey wolf optimizer with support vector regression for forecasting electric loads
Zhang_ZC and Hong_WC
Sep 27 2021 | Jul 2021 (Early Access) | KNOWLEDGE-BASED SYSTEMS 228
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 conv ... Show more

2 Chaos cloud quantum bat hybrid optimization algorithm
Li_MW; Wang_Y; (-); 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

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 (SVR) model is crucial to preventing the premature p ... Show more

4 Electric load forecasting by the SVR model with differential empirical mode decomposition and auto regression
Fan_GF; Peng_LL; (-); Sun_E
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 regr ... Show more

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, many such algorithms have numerous drawbac ... Show more

6 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 proposed chaotic efficient bat algorithm, b ... Show more

7 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), minimal red ... Show more

8 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 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, ... Show more