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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
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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 conv ... Show more
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2 Chaos cloud quantum bat hybrid optimization algorithm
Li, MW; Wang, YC (-); 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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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
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4 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 drawback ... 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, Jc (-); 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. RF is used to opti ... Show more
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6 A ship motion forecasting approach based on empirical mode decomposition method hybrid deep learning network and quantum butterfly optimization algorithm
Li, MW; Xu, DY; (-); Hong, WC
Feb 2022 | Jan 2022 (Early Access) | NONLINEAR DYNAMICS 107 (3), pp.2447-2467
Ship motion (SHM) forecasting value is an important parameter for ship navigation and operation. However, due to the coupling effect of wind, wave, and current, its time series has strong nonlinear characteristics, so it is a great challenge to obtain accurate forecasting results. Therefore, considering the strong nonlinear of SHM time series, firstly, this paper decomposes the original time se ... Show more
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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
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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 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, ... Show more
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