

Ensembles of Neural Network for Telemetry Multivariate Time Series Forecasting

Alexander Doudkin ¹,
Yauheni Marushko (Foreign) ²,

2017

¹ Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus; United Institute of Informatics Problems of National Academy of Sciences of Belarus, Minsk, Belarus

² Foreign (United Institute of Informatics Problems of National Academy of Sciences of Belarus, Minsk, Belarus)

Keywords: Forecasting Artificial neural network Ensemble of neural networks Telemetry Multivariate time series.

Abstract: In this paper, we propose to solve the problem of forecasting multivariate time series of telemetry data using neural network ensembles. Approaches to the forming neural network ensembles are analyzed and prediction accuracy is evaluated. The possibility of training the neural network ensembles is studied for reducing errors of multivariate time series forecasting.

Published in:

Pattern Recognition and Image processing / Communications in Computer and Information Science // V.V. Krasnoproshin and S.V. Ablameyko (Eds): PRIP 2016, CCIS.-Springer International Publishing AG, 2017. – Pp. 53-62. – https://doi.org/10.1007/978-3-319-54220-1_6.

Internet link: https://link.springer.com/chapter/10.1007%2F978-3-319-54220-1_6.