

ABSTRACT

Theme: “information-analytical system for weather forecasting using alternative methods

Thesis: 106p., 11 tables, 13 pictures, 2 addition, 14 sources.

MODELS, RAINFALL, WEATHER, PROCESSES, FORECASTING, REGRESSIONAL ANALYSIS, TEMPERATURE, TIME SERIES, C #, EViews.

The object of the study is statistical data on the average monthly temperature and rainfall in Ukraine.

Subject of research - methods of predictive modeling, models of time series.

The purpose of the work is to develop an information and analytical system that enables forecasting of certain weather processes.

The method of research - consideration of methods of time series analysis, construction of predictive models.

Actuality is to create an easy-to-use software product that will allow you to make long-term forecasts of individual weather processes.

The software product is implemented using the C # prediction language, based on the .Net Framework 4.6.1 platform. To analyze the results, the QMS Eviews program was used.

The obtained results - the information-analytical system for the modeling and forecasting of weather processes using the autoregressive models and the least squares method is developed.