ABSTRACT

Thesis: 115 p., 15 tabl., 37 fig., 1 append., 34 sources.

HETEROSKEDASTICITY, AUTOREGRESSION, MODELING, FORECASTING.

The objects of the study are heteroscedastic financial and economic processes.

The purpose of the thesis is to analyze the main models for the description of heteroscedastic financial and economic processes, review their properties; construction of models for describing and forecasting real financial and economic data, checking their adequacy.

Existing models for describing heteroscedastic financial and economic processes were analyzed. The ARCH and GARCH models were built for real financial data and were compared by a series of criteria.