МОДЕЛІ ТА МЕТОДИ ЕКОНОМІЧНОЇ ДИНАМІКИ, СТІЙКОСТІ Й РІВНОВАГИ

Модели и методы экономической динамики, устойчивости и равновесия Models and methods of economic dynamics, stability and equilibrium

УЛК 330.46

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MODELING MULTIVARIATE NONSTATIONARY TIME SERIES OF ECONOMIC DYNAMICS BASED ON FOKKER-PLANCK EQUATION

The subject of economic dynamics is a simulation of behavior of economic systems under the influence of internal and external factors in order to analyze balance, control and prediction of the evolution of economic systems. Mathematical models of economic dynamics are the formal reflection of the many economic scenarios development. This is usually determined models which are based on some economic concepts. Under the economic dynamics also understand the dynamic series - series of numbers that characterize the change of the social or economic event that is economic time series (ETS) [1]. Really researched ETS - nonstationary and almost always multi sign nature, their reliable reflection in the economic - mathematical models is possible only on condition taking into account the complex inherent features of the most significant characteristics. Currently, the development of mathematical methods for the analysis of nonstationary multivariate processes has great practical importance and demand in the economy. This is due to the need to improve the accuracy of predictions and, in particular, the price indicators of financial and commodity markets.

Modern economics has in its arsenal a large number of methods for analyzing ETS and predicting socio - economic indicators: statistical [2], determined [3], econophysics methods, phase analysis, wavelet - analysis, spectral analysis [4-7], adaptive forecasting methods - neural networks, genetic algorithms, group method of data handling, method "caterpillar" [8,9]. Most of these approaches are used only for one-dimensional and stationary ETS. Constructing a statistically correct economic - mathematical models of multivariate nonstationary ETS and methods of analysis is an actual problem. The theoretical basis of these models is a multi-dimensional Fokker - Planck equation [10,11]. The purpose of this study is to develop mathematical models of nonstationary multi ETS for their analysis, forecasting and decision-making in financial and commodity markets on the basis of the author's concept of multivariate modeling of dynamic systems [12].

1. The relationship between the continuity equation and the Fokker - Planck equation, Dynamic System (DS) is characterized by state variables $\mathbf{x} = (x_1, x_2, ..., x_m)$ - system of economic performance and function of the state $\phi(\mathbf{x}) = \phi(x_1, x_2, ..., x_m)$ - probability density function (PDF), considered in the phase space Γ points \mathbf{x} . Measure $d\Gamma_m = \phi(x_1, x_2, ..., x_m) \prod_{i=1}^m dx_i$ is the number of states ETS of specified intervals dx_i .

State variables are standardize:

⁶ A.A. Isaienko, V.V. Glushchevsky, A.N. Isaienko, 2013

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Table of Contents Modelling Nonstationary Economic Time Series A Multivariate Approach

- 1. Understanding the eBook Modelling Nonstationary Economic Time Series A Multivariate Approach
 - The Rise of Digital Reading Modelling Nonstationary Economic Time Series A Multivariate Approach
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Modelling Nonstationary Economic Time Series A Multivariate Approach
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modelling Nonstationary Economic Time Series A Multivariate Approach
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Modelling Nonstationary Economic Time Series A Multivariate Approach
 - Personalized Recommendations
 - Modelling Nonstationary Economic Time Series A Multivariate Approach User Reviews and Ratings
 - Modelling Nonstationary Economic Time Series A Multivariate Approach and Bestseller Lists
- 5. Accessing Modelling Nonstationary Economic Time Series A Multivariate Approach Free and Paid eBooks
 - o Modelling Nonstationary Economic Time Series A Multivariate Approach Public Domain eBooks
 - Modelling Nonstationary Economic Time Series A Multivariate Approach eBook Subscription Services
 - o Modelling Nonstationary Economic Time Series A Multivariate Approach Budget-Friendly Options
- 6. Navigating Modelling Nonstationary Economic Time Series A Multivariate Approach eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Modelling Nonstationary Economic Time Series A Multivariate Approach Compatibility with Devices
 - Modelling Nonstationary Economic Time Series A Multivariate Approach Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modelling Nonstationary Economic Time Series A Multivariate Approach
 - Highlighting and Note-Taking Modelling Nonstationary Economic Time Series A Multivariate Approach
 - Interactive Elements Modelling Nonstationary Economic Time Series A Multivariate Approach

- 8. Staying Engaged with Modelling Nonstationary Economic Time Series A Multivariate Approach
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modelling Nonstationary Economic Time Series A Multivariate Approach
- 9. Balancing eBooks and Physical Books Modelling Nonstationary Economic Time Series A Multivariate Approach
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modelling Nonstationary Economic Time Series A Multivariate Approach
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Modelling Nonstationary Economic Time Series A Multivariate Approach
 - Setting Reading Goals Modelling Nonstationary Economic Time Series A Multivariate Approach
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Modelling Nonstationary Economic Time Series A Multivariate Approach
 - Fact-Checking eBook Content of Modelling Nonstationary Economic Time Series A Multivariate Approach
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - $\circ \ \ Integration \ of \ Multimedia \ Elements$
 - Interactive and Gamified eBooks

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