## Multistep Forecast Averaging with Stochastic and Deterministic Trends

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#### Abstract

This paper presents a new approach to constructing multistep combination forecasts in a nonstationary framework with stochastic and deterministic trends. Existing forecast combination approaches in the stationary setup typically target the in-sample asymptotic mean squared error (AMSE) relying on its approximate equivalence with the asymptotic forecast risk (AFR). Such equivalence, however, breaks down in a nonstationary setup. To address this issue, this paper develops combination forecasts based on minimizing an Accumulated Prediction Errors (APE) criterion that directly targets the AFR and remains valid whether the time series is stationary or not. We show that the performance of APE-weighted forecasts is close to that of the infeasible combination forecasts which assume that the optimal (i.e., AFR minimizing) weights are known. Monte Carlo experiments are used to (i) demonstrate the finite sample efficacy of the proposed procedure relative to Mallows/Cross-Validation weighting that target the AMSE; (ii) underscore the importance of accounting for uncertainty about the stochastic trend and/or the lag order. When applied to forecasting US macroeconomic time series, we find strong evidence in favor of a version of the advocated approach that simultaneously addresses stochastic trend and lag order uncertainty.

Keywords: averaging, combination, cross-validation, Mallows, unit root, accumulated prediction errors.

JEL Classification: C22, C53

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#### **Table of Contents Stochastic Deterministic Averaging Processors**

- 1. Understanding the eBook Stochastic Deterministic Averaging Processors
  - The Rise of Digital Reading Stochastic Deterministic Averaging Processors
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Stochastic Deterministic Averaging Processors
  - 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 Stochastic Deterministic Averaging Processors
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Stochastic Deterministic Averaging Processors
  - Personalized Recommendations

- Stochastic Deterministic Averaging Processors User Reviews and Ratings
- Stochastic Deterministic Averaging Processors and Bestseller Lists
- 5. Accessing Stochastic Deterministic Averaging Processors Free and Paid eBooks
  - Stochastic Deterministic Averaging Processors Public Domain eBooks
  - Stochastic Deterministic Averaging Processors eBook Subscription Services
  - Stochastic Deterministic Averaging Processors Budget-Friendly Options
- 6. Navigating Stochastic Deterministic Averaging Processors eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Stochastic Deterministic Averaging Processors Compatibility with Devices
  - Stochastic Deterministic Averaging Processors Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Stochastic Deterministic Averaging Processors
  - Highlighting and Note-Taking Stochastic Deterministic Averaging Processors
  - Interactive Elements Stochastic Deterministic Averaging Processors
- 8. Staying Engaged with Stochastic Deterministic Averaging Processors
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Stochastic Deterministic Averaging Processors
- 9. Balancing eBooks and Physical Books Stochastic Deterministic Averaging Processors
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Stochastic Deterministic Averaging Processors
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Stochastic Deterministic Averaging Processors
  - Setting Reading Goals Stochastic Deterministic Averaging Processors
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Stochastic Deterministic Averaging Processors
  - Fact-Checking eBook Content of Stochastic Deterministic Averaging Processors

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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