

# Cybernetics and Forecasting Techniques.

Ivakhnenko, A. G.

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# Cybernetics Forecasting Techniques

**AW Chickering**



## **Cybernetics Forecasting Techniques:**

Cybernetics and Forecasting Techniques A. G. Ivakhnenko, Valentin Grigor'evich Lapa, 1967      **Cybernetics and Forecasting Techniques** A. G. Ivahnenko, Valentin Grigorevič Lapa, 1927      **Cybernetics and Forecasting Techniques** Francis J. Coleman, 1967      Cybernetics and forecasting techniques, by A.G. Ivakhnenko and V.G. Lapa, tr A. G. Ivakhnenko, Valentin Grigor'evich Lapa,      **Economic Computation and Economic Cybernetics Studies and Research**, 1982      A hybrid time series forecasting method based on neutrosophic logic with applications in financial issues Seyyed Ahmad Edalatpanah, Farnaz Sheikh Hassani, Florentin Smarandache, Ali Sorourkhah, Dragan Pamucar, Bing Cui, 2024-11-01

Rising market demands economic pressures and technological advancements have spurred researchers to seek ways to enhance business environments and scientific productivity Predictive science crucial in this context has gained prominence due to the rapid progress in information technology and forecasting algorithms Time series forecasting widely used in fields like engineering economics tourism and energy has inherent limitations with classical statistical methods leading researchers to explore artificial intelligence and fuzzy logic for more accurate predictions However despite extensive efforts to improve accuracy challenges persist The research introduces a model aimed at surpassing existing methods in time series forecasting accuracy This approach combines meta heuristic optimization algorithms and neutrosophic logic to enhance precision in uncertain and complex environments promising improved forecasting outcomes The study shows that the performance of the neutrosophic time series modeling approach is highly dependent on the optimal selection of the universe of discourse and its corresponding intervals This study selects the quantum optimization algorithm QOA genetic algorithm GA and particle swarm optimization PSO to address this weakness These optimization algorithms improve the performance of the NTS modeling approach by selecting the global universe of discourse and corresponding intervals from the list of locally optimal solutions The proposed hybrid model i e NTS QOA model is verified and validated with datasets of university enrollment of Alabama USA Taiwan futures exchange TAIEX index and Taiwan Stock Exchange Corporation TSEC weighted index Various experimental results signified the efficiency of the proposed model over existing benchmark models in terms of average forecasting error rate AFER This value using the proposed NTS QOA NTS GA and NTS PSO method on the university dataset is 0.166 0.167 0.164 on the TAIEX dataset is 0.081 0.081 and 0.081 and on the TSEC dataset is 0.09 0.09 and 0.09 respectively      *The Closed World of East German Economists* Till Düppe, 2023-05-11 The collective biography of the only generation of economists who lived their entire professional life in GDR's socialism      **The Cybernetics of Human Learning and Performance** Gordon Pask, 1975      **Energy Research Abstracts**, 1978      *Modern Trends in Cybernetics and Systems: Proceedings of official and other meetings, exhibitions, symposia and Section 1 Economic cybernetic systems and management*, 1977      *Energy Abstracts for Policy Analysis*, 1978      **Cybernetics in Electric Power Systems** Valentin Andreevich Venikov, 1978      Progress of Cybernetics: Cybernetics and industry. Social and economic

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