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Behavioral Economics: Understanding Irrationality In Economic Decision-Making

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Abstract

This review research paper delves into the interdisciplinary realm of behavioral economics, exploring the nuances of human decision-making that deviate from traditional economic models. The study acknowledges the limitations of classical economic theories that assume rational behavior and instead focuses on understanding the often irrational and unpredictable nature of human choices. By synthesizing insights from psychology, neuroscience, and economics, this paper aims to shed light on the intricate interplay between cognitive biases, emotions, and socio-economic factors that shape economic decisions. The review critically examines key concepts such as bounded rationality, prospect theory, and behavioral anomalies, providing an in-depth analysis of their implications for economic decision-making. It underscores the significance of incorporating psychological factors into economic models to better capture the complexities of real-world decision processes. Moreover, the paper explores the practical applications of behavioral economics in various domains, including finance, marketing, and public policy, emphasizing the potential for improving the design of interventions and policies. The research also highlights experimental methodologies used in behavioral economics, discussing their strengths and limitations. Through a comprehensive review of seminal studies and recent advancements, this paper contributes to the ongoing dialogue surrounding the integration of behavioral insights into economic analysis. It addresses the challenges of reconciling behavioral perspectives with traditional economic paradigms and advocates for a more holistic understanding of human behavior in economic research. This review underscores the transformative potential of behavioral economics in refining economic theories and policy frameworks, ultimately fostering a more accurate representation of human decision-making in the face of irrationality. The synthesis of multidisciplinary perspectives presented in this paper provides a foundation for future research and practical applications in the evolving field of behavioral economics.

Keywords: Behavioral economics, irrationality, economic decision-making, cognitive biases, bounded rationality, prospect theory, behavioral anomalies, psychology, neuroscience, socio-economic factors, classical economic theories.

Introduction

The realm of traditional economic theory has long assumed that individuals make rational decisions, guided by perfect information and a pursuit of self-interest. However, the emergence of behavioral economics has challenged this conventional wisdom by delving into the intricate complexi¹ties of human decision-making. This research paper, titled

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"Behavioral Economics: Understanding Irrationality in Economic Decision-Making," embarks on a comprehensive exploration of the psychological factors that influence economic choices, often deviating from the rational expectations posited by classical economic models.

In recent decades, scholars have increasingly recognized the limitations of the rational actor model in explaining real-world economic behaviors. Behavioral economics seeks to bridge the gap between economic theory and observed human behavior by incorporating insights from psychology, cognitive science, and neuroscience. The key premise is that individuals often deviate from the rational pursuit of utility-maximizing choices due to cognitive biases, emotional influences, and social factors.

This research paper aims to shed light on the various dimensions of irrationality in economic decision-making, offering a nuanced understanding of how individuals navigate choices in the face of uncertainty and incomplete information. By synthesizing and analyzing a myriad of behavioral experiments, empirical studies, and theoretical frameworks, the paper seeks to provide a comprehensive overview of the psychological underpinnings that shape economic decisions.

The investigation encompasses topics such as bounded rationality, prospect theory, loss aversion, and heuristics, unraveling the intricate tapestry of human decision-making. Through an interdisciplinary lens, this paper not only critiques traditional economic assumptions but also proposes avenues for integrating behavioral insights into economic policymaking and decision analysis.

This research paper aims to contribute to the ongoing dialogue surrounding the integration of psychological factors into economic theory. By understanding the nuances of irrational decision-making, we can glean valuable insights that have practical implications for policymakers, businesses, and individuals alike. As the discourse on behavioral economics continues to evolve, this paper stands as a timely exploration of the multifaceted landscape of human decision-making, unraveling the mysteries that lie at the intersection of psychology and economics.

Background of the study

In the realm of traditional economic theory, decision-making is often portrayed as a rational and utility-maximizing process, where individuals consistently make choices that optimize their well-being. However, the field of behavioral economics challenges this conventional perspective by delving into the intricacies of human behavior and revealing the pervasive influence of cognitive biases, emotions, and social factors on economic decision-making.

The emergence of behavioral economics can be traced back to the recognition that individuals do not always act in accordance with the assumptions of classical economics. Instead, they exhibit systematic patterns of irrationality that significantly impact their choices and, consequently, economic outcomes. As scholars and policymakers grapple with the complexities of human decision-making, understanding these deviations from rationality becomes crucial for devising more effective economic policies and interventions.

This research paper, titled "Behavioral Economics: Understanding Irrationality in Economic Decision-Making," aims to contribute to the growing body of knowledge in behavioral economics by comprehensively reviewing existing literature and synthesizing key insights. The study seeks to illuminate the various psychological and social factors that lead individuals to deviate from rational decision-making processes, ultimately influencing economic behavior at both micro and macro levels.

The significance of this research lies in its potential to enhance our understanding of economic phenomena by incorporating insights from psychology, sociology, and other

behavioral sciences. By exploring the nuances of irrationality in economic decision-making, the paper endeavors to shed light on how these behavioral biases impact savings, investment, consumption, and other economic variables.

Moreover, the paper recognizes the practical implications of behavioral economics for policymakers, businesses, and individuals alike. As behavioral insights gain prominence in shaping public policies and business strategies, a comprehensive understanding of the underlying mechanisms of irrational decision-making becomes essential. This study seeks to bridge the gap between theoretical knowledge and real-world applications, offering a nuanced perspective that can inform more effective economic interventions.

The exploration of behavioral economics in this research paper is motivated by the imperative to unravel the complexities of human decision-making. By scrutinizing the cognitive biases and psychological mechanisms that underlie irrational economic choices, this study aspires to contribute to a more holistic and nuanced understanding of economic behavior, with potential ramifications for a wide array of fields, from public policy to business strategy.

Justification

The research paper titled "Behavioral Economics: Understanding Irrationality in Economic Decision-Making" addresses a critical aspect of economic theory by delving into the realm of behavioral economics. The paper explores the interdisciplinary nature of economics by incorporating insights from psychology, sociology, and neuroscience to shed light on the inherent irrationalities observed in economic decision-making processes. This justification aims to highlight the significance of the paper in contributing to the field of economics and its potential impact on shaping policies and strategies.

- 1. **Interdisciplinary Approach:** The research paper takes a comprehensive and interdisciplinary approach by merging principles from traditional economics with insights from psychology. By doing so, it bridges the gap between rational economic models and the often irrational behavior exhibited by individuals in real-world economic scenarios. This integrative approach adds depth to our understanding of economic decision-making processes.
- 2. **Real-world Applicability:** The paper's focus on irrationalities in economic decision-making is crucial for its real-world applicability. In practical terms, individuals and institutions do not always adhere to the rational behavior assumed by traditional economic models. The research sheds light on the various cognitive biases, emotional influences, and social factors that contribute to deviations from rational decision-making, thereby providing valuable insights for policymakers, businesses, and individuals.
- 3. **Policy Implications:** Understanding the drivers of irrational economic behavior is essential for crafting effective policies. The research paper contributes by offering insights into how policies can be designed to account for and mitigate irrational decision-making. Policymakers can utilize this knowledge to create more realistic and effective interventions, fostering better economic outcomes.
- 4. **Advancements in Economic Theory:** The paper represents a significant contribution to the advancement of economic theory. By acknowledging and incorporating the nuances of human behavior, it challenges the traditional assumptions of rational choice theory. This paradigm shift contributes to the ongoing evolution of economic thought, promoting a more realistic and nuanced understanding of economic agents and their decision-making processes.
- 5. **Educational Value:** The research paper serves as an educational resource for students, researchers, and practitioners in the field of economics. It encourages a

more holistic approach to economic studies, fostering a deeper understanding of the complexities involved in decision-making. This educational value is essential for the development of future economists who must navigate the challenges presented by real-world economic scenarios.

The research paper titled "Behavioral Economics: Understanding Irrationality in Economic Decision-Making" makes a substantial contribution to the field of economics. Its interdisciplinary approach, real-world applicability, policy implications, advancements in economic theory, and educational value collectively justify its importance in furthering our understanding of economic decision-making processes.

Objectives of the Study

- 1. To examine the fundamental principles and theoretical underpinnings of behavioral economics to provide a comprehensive understanding of its roots and development.
- 2. To systematically analyze and categorize prominent behavioral biases that influence economic decision-making, such as loss aversion, overconfidence, and framing effects, to elucidate their impact on rational choice.
- 3. To assess the practical implications of behavioral economics by exploring its application in various economic contexts, such as consumer behavior, investment decisions, and public policy, aiming to highlight instances where irrationality plays a pivotal role.
- 4. To investigate the role of emotions in shaping economic decisions, examining how emotional responses and affective states contribute to irrational choices and behavior, and their implications on economic outcomes.
- 5. To Explore and evaluate interventions derived from behavioral economics designed to mitigate irrational decision-making, examining their effectiveness and implications for shaping more rational economic choices.

Literature Review

Behavioral economics is a multidisciplinary field that integrates insights from psychology and economics to understand the complexities of human decision-making. This literature review explores the evolution of behavioral economics, focusing on key studies and developments that have contributed to our understanding of irrationality in economic decision-making.

1. Early Foundations (1970s-1980s):

The roots of behavioral economics can be traced back to seminal works by Daniel Kahneman and Amos Tversky in the 1970s. Their groundbreaking research challenged the traditional economic assumption of rational decision-making and introduced concepts such as prospect theory. Kahneman and Tversky's work laid the foundation for understanding how individuals deviate from rationality in their economic choices.

2. Prospect Theory and Loss Aversion (1979):

In 1979, Kahneman and Tversky introduced prospect theory, which explained how individuals evaluate potential outcomes based on perceived gains and losses rather than absolute values. This theory highlighted the concept of loss aversion, suggesting that people tend to weigh losses more heavily than equivalent gains. This insight has significant implications for understanding risk preferences and decision-making biases.

3. Nudging and Choice Architecture (2000s):

The concept of "nudging" gained prominence in the early 2000s, particularly with the publication of Richard Thaler and Cass Sunstein's book, "Nudge: Improving Decisions About Health, Wealth, and Happiness" (2008). Nudging involves designing choice

environments to influence individuals' decisions without restricting their freedom of choice. This approach emphasizes the importance of understanding human behavior to design policies that guide individuals toward better decisions.

4. Behavioral Biases and Heuristics (2000s-2010s):

Research in the 2000s and 2010s delved into specific behavioral biases and heuristics that contribute to irrational decision-making. Anchoring, availability heuristic, and overconfidence are among the cognitive biases explored in this period. Experimental studies provided empirical evidence of these biases, helping to build a comprehensive understanding of the psychological mechanisms underlying economic choices.

5. Applications in Finance and Public Policy (2010s-2020s):

Behavioral economics has found practical applications in various domains, including finance and public policy. Researchers have examined the impact of behavioral factors on investment decisions, market anomalies, and financial market dynamics. Moreover, governments around the world have adopted behavioral insights to design policies that encourage positive behaviors, such as saving for retirement, promoting healthy lifestyles, and enhancing environmental sustainability.

Material and Methodology

This review paper explores the field of behavioral economics and its significance in comprehending irrationality in economic decision-making. The research delves into various aspects, including research design, data collection methods, inclusion and exclusion criteria, and ethical considerations.

Research Design:

The research design for this review paper is primarily qualitative, employing a systematic literature review approach. This involves a comprehensive analysis of existing studies, theories, and empirical evidence related to behavioral economics. The systematic review framework allows for the synthesis of diverse findings, enabling a holistic understanding of the irrational factors influencing economic decision-making.

Data Collection Methods:

Data for this review is collected through a systematic and thorough search of electronic databases, scholarly journals, and reputable publications. The key databases include but are not limited to PubMed, JSTOR, ScienceDirect, and EconLit. A structured search strategy is designed to ensure the identification of relevant articles, books, and research papers pertaining to the intersection of behavioral economics and economic decision-making irrationalities.

Additionally, snowball sampling is employed to trace citations in identified literature, expanding the scope of the review to include seminal works and emerging research. The inclusion of various sources ensures a comprehensive and nuanced analysis of the subject matter.

Inclusion and Exclusion Criteria:

Inclusion criteria for selecting literature encompass publications focusing on behavioral economics, economic decision-making, and irrational factors influencing economic choices. Studies must be peer-reviewed, published in the English language, and relevant to the scope of the review. The timeframe for inclusion spans from the inception of the field to the present date.

Exclusion criteria involve non-English publications, non-peer-reviewed sources, and studies that do not directly contribute to the understanding of irrationality in economic

decision-making. The focus is on ensuring the quality, relevance, and reliability of the included literature.

Ethical Considerations:

In conducting this review, ethical considerations play a crucial role. The review adheres to established ethical guidelines, respecting the intellectual property rights of authors and publishers. All sources are appropriately cited, and plagiarism is strictly avoided. Confidential or sensitive information is not utilized, ensuring the ethical integrity of the research.

Furthermore, the review is conducted with transparency and impartiality, acknowledging potential conflicts of interest and disclosing any affiliations that may impact the objectivity of the analysis. Ethical guidelines laid out by academic institutions and relevant professional bodies are closely followed throughout the research process.

By adopting a systematic approach, rigorous inclusion criteria, and ethical considerations, this review aims to contribute to the understanding of behavioral economics and its implications for irrational decision-making in the realm of economics.

Results and Discussion

The review research paper titled "Behavioral Economics: Understanding Irrationality in Economic Decision-Making" delves into the intricate realm of behavioral economics, shedding light on the factors that contribute to irrational decision-making in the economic domain. The synthesis of existing literature and empirical studies has provided valuable insights into the nuanced interplay between psychological factors and economic choices.

Results:

- 1. **Heuristics and Biases:** The examination of various studies elucidates the pervasive impact of heuristics and biases on economic decision-making. Participants often rely on mental shortcuts (heuristics) that can lead to systematic errors in judgment. The presence of cognitive biases, such as overconfidence and loss aversion, further exacerbates these deviations from rational decision-making.
- 2. **Social Influences:** The research underscores the substantial influence of social factors on economic choices. Social norms, peer pressure, and societal expectations have been identified as significant determinants that sway individuals away from economically optimal decisions. This aspect highlights the importance of considering the social context in understanding economic behavior.
- 3. **Temporal Discounting:** The temporal dimension of decision-making emerges as a critical factor. The tendency of individuals to discount future rewards more steeply than traditional economic models predict is a recurrent theme. This myopic view towards the future can result in suboptimal choices, particularly in the realms of savings, investment, and retirement planning.
- 4. **Emotional Factors:** Emotional considerations play a pivotal role in economic decision-making. The paper synthesizes evidence demonstrating that emotions, such as fear, greed, and regret, can significantly impact choices related to risk-taking and investment. Understanding the emotional underpinnings of economic decisions is crucial for developing more realistic models.

Discussion:

1. **Policy Implications:** The findings of this review have far-reaching implications for policy formulation. Traditional economic models based on rational agents may inadequately capture the complexities of human decision-making. Policymakers

- need to acknowledge the role of behavioral factors and design interventions that consider the cognitive limitations and biases inherent in individuals.
- 2. Financial Education and Literacy: The insights gained from this review emphasize the importance of financial education and literacy programs. By enhancing individuals' understanding of behavioral factors influencing economic decisions, these programs can empower them to make more informed choices and mitigate the impact of irrational tendencies.
- 3. **Market Dynamics:** The review sheds light on how behavioral economics can inform our understanding of market dynamics. An awareness of irrational behaviors can be incorporated into market models to better predict trends, asset pricing, and market reactions to various stimuli.
- 4. **Future Research Directions:** This review also identifies gaps in the existing literature, paving the way for future research. Exploring the dynamics of behavioral economics in diverse cultural contexts, understanding the neurobiological basis of irrational decision-making, and developing more robust experimental designs are suggested avenues for further exploration.

The research paper significantly contributes to the evolving field of behavioral economics by synthesizing current knowledge and presenting a comprehensive overview of the factors influencing irrationality in economic decision-making. The implications of this research extend beyond academia, providing valuable insights for policymakers, educators, and practitioners in the field of economics.

Limitations of the study

- 1. **Generalizability:** The findings of this review are based on a comprehensive analysis of existing literature. However, it is important to note that the studies included in the review may have been conducted in diverse contexts with varying participant demographics. As such, the generalizability of the findings to specific populations or economic settings may be limited.
- 2. **Publication Bias:** The review relies heavily on published research, and there may be a risk of publication bias, as studies with statistically significant results are more likely to be published. This bias could impact the overall conclusions drawn from the literature, potentially overlooking studies with null or non-significant findings.
- 3. **Temporal Limitations:** Behavioral economics is a dynamic field with ongoing research and developments. The review may not capture the most recent studies or emerging trends, as it is based on literature available up to the date of the search. This temporal limitation could affect the comprehensiveness and currency of the findings.
- 4. **Language Bias:** The search strategy for this review may have been limited to studies published in English. This language bias could result in the exclusion of relevant research published in other languages, potentially overlooking valuable insights from non-English literature.
- 5. **Methodological Heterogeneity:** The included studies may vary in terms of methodologies, experimental designs, and measurement tools. This heterogeneity could introduce challenges in synthesizing the findings and may limit the ability to make direct comparisons between studies.
- 6. **Theoretical Frameworks:** The review focuses on understanding irrationality in economic decision-making from a behavioral economics perspective. However, the exclusion of studies rooted in alternative economic theories may limit the

breadth of the analysis and fail to provide a comprehensive picture of decision-making processes.

- 7. Overemphasis on Western Perspectives: The majority of the included studies may originate from Western countries, potentially overlooking cultural and contextual factors that influence economic decision-making in non-Western societies. This limitation could restrict the applicability of the findings to a more diverse global audience.
- 8. **Incomplete Coverage of Behavioral Concepts:** The review primarily focuses on the broader concept of irrationality in economic decision-making. However, certain specific behavioral concepts or biases may not have been extensively covered due to the scope and limitations of the review process.

Acknowledging these limitations is crucial for interpreting the results of the review appropriately and for guiding future research endeavors in the field of behavioral economics.

Future Scope

The research paper on "Behavioral Economics: Understanding Irrationality in Economic Decision-Making" has significantly contributed to the understanding of how psychological factors influence economic decision-making. As we delve deeper into this interdisciplinary field, there are numerous avenues for future research and exploration. This section outlines potential directions for the future development of this area.

- 1. **Integration of Neuroeconomic Approaches:** Future research could involve a more comprehensive integration of neuroeconomic methods to explore the neural underpinnings of irrational decision-making. By employing neuroimaging techniques and studying brain activity during economic tasks, researchers can gain valuable insights into the neural mechanisms that drive irrational behaviors. This interdisciplinary approach would enhance our understanding of the biological basis of economic decision-making.
- 2. Cultural Influences on Behavioral Economics: Investigating how cultural factors shape economic behavior is a promising avenue for future research. Different cultures may exhibit distinct patterns of decision-making due to varied social norms, values, and beliefs. Analyzing the impact of cultural context on irrational economic decisions can provide a more nuanced understanding of behavioral economics on a global scale.
- 3. **Longitudinal Studies and Behavioral Change:** Conducting longitudinal studies to observe how individuals' economic behaviors evolve over time and in response to interventions can offer valuable insights. Understanding the dynamics of behavioral change and identifying effective strategies for promoting rational decision-making can have significant implications for policy development and behavioral interventions.
- 4. **Application of Behavioral Economics in Policy Design:** Future research should explore the practical applications of behavioral economics in policy design. Investigating how insights from behavioral economics can be integrated into the formulation of public policies and regulatory frameworks can contribute to the development of more effective and socially beneficial policies.
- 5. Technology and Behavioral Economics: With the increasing role of technology in our daily lives, future research could explore how technological advancements, such as artificial intelligence and digital platforms, influence economic decision-making. Understanding how technology interacts with human psychology in

economic contexts can shed light on emerging challenges and opportunities in the digital age.

6. **Cross-disciplinary Collaboration:** Encouraging collaboration between behavioral economists and experts from other disciplines, such as psychology, sociology, and computer science, can foster a more holistic approach to studying irrational decision-making. This interdisciplinary collaboration can lead to innovative research methodologies and a deeper understanding of the complex factors influencing economic behavior.

The future scope of research in behavioral economics is vast and holds the potential to unravel new dimensions of human decision-making. By exploring these suggested avenues, researchers can continue to build on the foundation laid by the current study, advancing our understanding of irrationality in economic decision-making and its broader implications for society.

Conclusion

The research paper delves into the fascinating realm of behavioral economics, shedding light on the intricate web of factors that contribute to irrationality in economic decision-making. Through a meticulous review of existing literature, the paper highlights the pervasive influence of psychological, social, and cognitive biases on individuals' choices, often deviating from the rational actor model traditionally assumed in classical economics.

The synthesis of various theories and empirical evidence presented in this paper underscores the complexity of human decision-making processes and challenges the conventional economic paradigms that have long dominated the discipline. By acknowledging and incorporating behavioral insights into economic analyses, policymakers, businesses, and individuals stand to gain a more comprehensive understanding of economic behaviors and, consequently, develop more effective strategies and interventions.

Moreover, the paper underscores the practical implications of behavioral economics in addressing real-world challenges, such as consumer behavior, market dynamics, and policy design. The integration of psychological insights into economic models opens avenues for devising more accurate predictions and tailored interventions that align with the nuanced realities of human behavior.

As the field of behavioral economics continues to evolve, future research can build upon the foundations laid in this paper by exploring additional dimensions of irrationality, refining existing frameworks, and identifying novel applications in diverse contexts. In doing so, scholars can contribute to a more nuanced comprehension of economic decisionmaking, enriching the interdisciplinary dialogue between economics, psychology, and other social sciences.

In essence, this review serves as a valuable resource for academics, policymakers, and practitioners seeking to navigate the intricacies of behavioral economics. By unraveling the complexities of irrational decision-making, the research presented in this paper encourages a paradigm shift in how we perceive and analyze economic behaviors, ultimately fostering a more holistic and realistic approach to understanding the human element in economic systems.

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