Dissertation

Summary of "2024-06-28 Economics.txt"

The document "2024-06-28 Economics.txt" appears to be a speech-to-text transcription focused on various philosophical and practical aspects of economics, integrating psychological and emotional considerations. Here are the key points and themes discussed:

1. **Integration of Psychology and Physiology in Economics:**

   - The document emphasizes the importance of understanding the human body's responses and psychological states in economic behavior.
   - Concepts like rigid body postures and their impact on health (e.g., potential for heart attacks) are discussed.
   - The analogy of an open versus closed system is used to describe human desires and needs. When one is in need or desire, they are an open system, and once that need is met, they become a closed system.

2. **Philosophical Underpinnings:**

   - The text references Carl Jung's ideas about the persona and shadow, indicating an integration of psychoanalytic concepts.
   - There is a discussion about the importance of open source technology and reproducibility in science, with personal reflections on the challenges of releasing proprietary tools.

3. **Economic Modeling and Actuarial Perspectives:**

   - The document proposes using tools like NetLogo for economic modeling.
   - Practical examples include providing retailers with weekly pricing reports based on modeled environments, suggesting a bottom-up approach to economic systems.
   - There's a vision of moving to a new town and integrating oneself into the local economy through various social and economic interactions.

4. **Authentic Relating and Team Dynamics:**

   - The text discusses principles of authentic relating and references Patrick Lencioni's "Five Dysfunctions of a Team": trust, conflict avoidance, commitment, accountability, and attention to results.
   - It emphasizes the importance of trust and morale in team settings.

5. **Valuation of Labor:**

   - A significant point made is the notion of not judging another's valuation of their own labor hours, highlighting the subjective nature of labor value.
   - This is underscored as a critical aspect of economic interactions and relationships.

6. **Future Directions:**

   - The text acknowledges the need for further development of the mathematical groundwork for these ideas.
   - There's an intention to convert the speech into text, extract keywords, and develop these concepts further.

Incomplete Aspects and Suggestions for Expansion

1. Mathematical Rigor:

- The document indicates a desire to lay out the mathematics of these economic concepts but admits this has not yet been accomplished.
- Further work could involve developing specific mathematical models and simulations using NetLogo.

2. Specific NetLogo Models:

- While NetLogo is mentioned, specific references to existing models or examples of how to use NetLogo to simulate these economic concepts are not provided.
- Detailed examples and case studies using NetLogo could enhance the practical application of these ideas.

3. Philosophical and Emotional Integration:

- The document integrates philosophical and emotional dimensions into economics, but more structured theoretical frameworks could be beneficial.
- Exploring how these dimensions can be systematically integrated into economic theory and practice could provide more clarity.

Overall, the document lays a philosophical and practical foundation for a new approach to economics that integrates human psychology, emotional states, and practical modeling tools like NetLogo. However, it needs further development in terms of mathematical rigor and specific modeling examples to fully realize its vision.

Title: A Structured Theoretical Framework for an Austrian-Inspired Economic System Integrating Ethics, Logic, and Physics

Author: Jefferson

Abstract

This dissertation aims to establish a structured theoretical framework for an economic system inspired by Austrian Economics, integrating ethics, logic, and physics. By leveraging agent-based modeling through NetLogo, the study seeks to simulate and analyze key economic principles, emphasizing individual actions, spontaneous order, and the subjective theory of value. The framework also aims to incorporate ethical considerations and logical consistency, supported by mathematical and physical principles, to create a comprehensive and robust economic model.

Chapter 1: Introduction

1.1 Background and Motivation

Austrian Economics provides a unique perspective on market dynamics, emphasizing individual decision-making, entrepreneurial discovery, and spontaneous order. The integration of ethics, logic, and physics into this economic paradigm can offer deeper insights and more holistic solutions to economic problems. This dissertation explores these integrations using agent-based modeling through NetLogo.

1.2 Objectives

- Develop a theoretical framework that combines Austrian Economics with ethics, logic, and physics.
- Create and analyze NetLogo models to simulate economic interactions based on this framework.
- Identify areas for further research and model refinement.

1.3 Methodology

Using NetLogo, we will create various agent-based models that simulate economic interactions. These models will be grounded in Austrian economic principles and enhanced with ethical, logical, and physical considerations. The outcomes will be analyzed to validate the theoretical framework and identify areas for expansion.

Chapter 2: Literature Review

2.1 Austrian Economics

- Overview of key principles: individualism, subjective value, entrepreneurial discovery, and spontaneous order.
- Historical context and development of Austrian Economics.

2.2 Ethics in Economics

↗ duty

- Ethical theories relevant to economics: utilitarianism, deontology, virtue ethics.
- Integration of ethics into economic decision-making and policy.

2.3 Logic in Economics

- Role of logical consistency in economic theory.
- Logical frameworks and their application in economic modeling.

2.4 Physics in Economics

- Application of physical principles and models to economic systems.
- Entropy, thermodynamics, and systems theory in economics.
  └→ fluid dynamics

2.5 Agent-Based Modeling

- Introduction to agent-based modeling and its applications in economics.
- Review of existing economic models using NetLogo.

2.6 Integration of Austrian Economics and Agent-Based Modeling

- Previous attempts and their limitations.
- Potential of NetLogo in modeling Austrian economic principles.

Chapter 3: Theoretical Framework

3.1 Economic Principles

- Detailed exploration of Austrian Economics principles: subjective value, marginal utility, time preference, and capital structure.
- Ethical considerations: fairness, justice, and welfare.
- Logical consistency: ensuring non-contradictory principles and coherent decision-making processes.

3.2 Ethical Framework

- Ethical guidelines for economic interactions.
- Balancing individual rights with collective welfare.
- Ethical considerations in market processes and entrepreneurial activities.

3.3 Logical Framework

- Logical principles to ensure consistency in economic theory and modeling.
- Application of deductive and inductive reasoning in economic analysis.

3.4 Physical Principles

- Incorporation of physical concepts such as entropy and thermodynamics.
- Systems theory and its relevance to economic modeling.
- Understanding economic systems as complex adaptive systems.

Chapter 4: NetLogo Models of Austrian Economics

4.1 Model 1: Market Process and Price Formation

- Description: Simulates how prices emerge from the interactions of buyers and sellers.
- Key Features: Agents with different valuations and preferences.
- Outcomes: Analysis of price discovery and market equilibrium.
- Ethical Considerations: Fair pricing mechanisms and access to market information.

4.2 Model 2: Entrepreneurial Discovery

- Description: Focuses on the role of entrepreneurs in discovering and exploiting profit opportunities.
- Key Features: Agents with entrepreneurial traits identifying and acting on market gaps.
- Outcomes: Impact of entrepreneurship on market dynamics.
- Ethical Considerations: Fair competition and innovation incentives.

4.3 Model 3: Spontaneous Order

- Description: Demonstrates how order emerges from decentralized actions of individuals.
- Key Features: Agents following simple rules leading to complex and coordinated behavior.
- Outcomes: Mechanisms of spontaneous order and its stability.
- Logical Considerations: Ensuring non-contradictory rules and coherent system behavior.

4.4 Model 4: Resource Allocation and Entropy

- Description: Applies physical principles to model resource allocation and consumption.

- Key Features: Agents managing resources within an entropy framework.
- Outcomes: Efficiency and sustainability of resource use.
- Physical Considerations: Entropy and thermodynamics in resource management.

Chapter 5: Analysis and Discussion

5.1 Model Outcomes and Theoretical Validation

- Comparison of model results with theoretical expectations from Austrian Economics.
- Discussion of discrepancies and potential reasons.

5.2 Insights and Implications

- Implications of the model findings for economic theory and policy.
- Practical applications and limitations of the models.

5.3 Areas for Expansion

- Suggestions for enhancing model complexity and realism.
- Potential for incorporating additional economic variables and scenarios.

Chapter 6: Conclusion

6.1 Summary of Findings

- Recap of key insights gained from the NetLogo models.
- Validation of Austrian economic principles through agent-based modeling.

6.2 Future Research Directions

- Proposals for further studies to refine and expand the models.
- The potential for interdisciplinary research combining economics, ethics, logic, and physics.

6.3 Final Thoughts

- Reflections on the significance of integrating computational modeling with economic theory.
- The promise of agent-based models in advancing the understanding of complex economic systems.

References

- A comprehensive list of references cited throughout the dissertation, including key works in Austrian Economics, ethical theories, logical frameworks, physical principles, and NetLogo documentation.

Appendix

- Detailed descriptions and code snippets of the NetLogo models developed for this study.

- Additional data and analysis supporting the dissertation's findings.

This structured theoretical framework integrates Austrian Economics with ethics, logic, and physics, providing a comprehensive approach to understanding and modeling economic systems. By leveraging NetLogo for simulation and analysis, the dissertation offers practical insights and identifies areas for further research and model refinement.
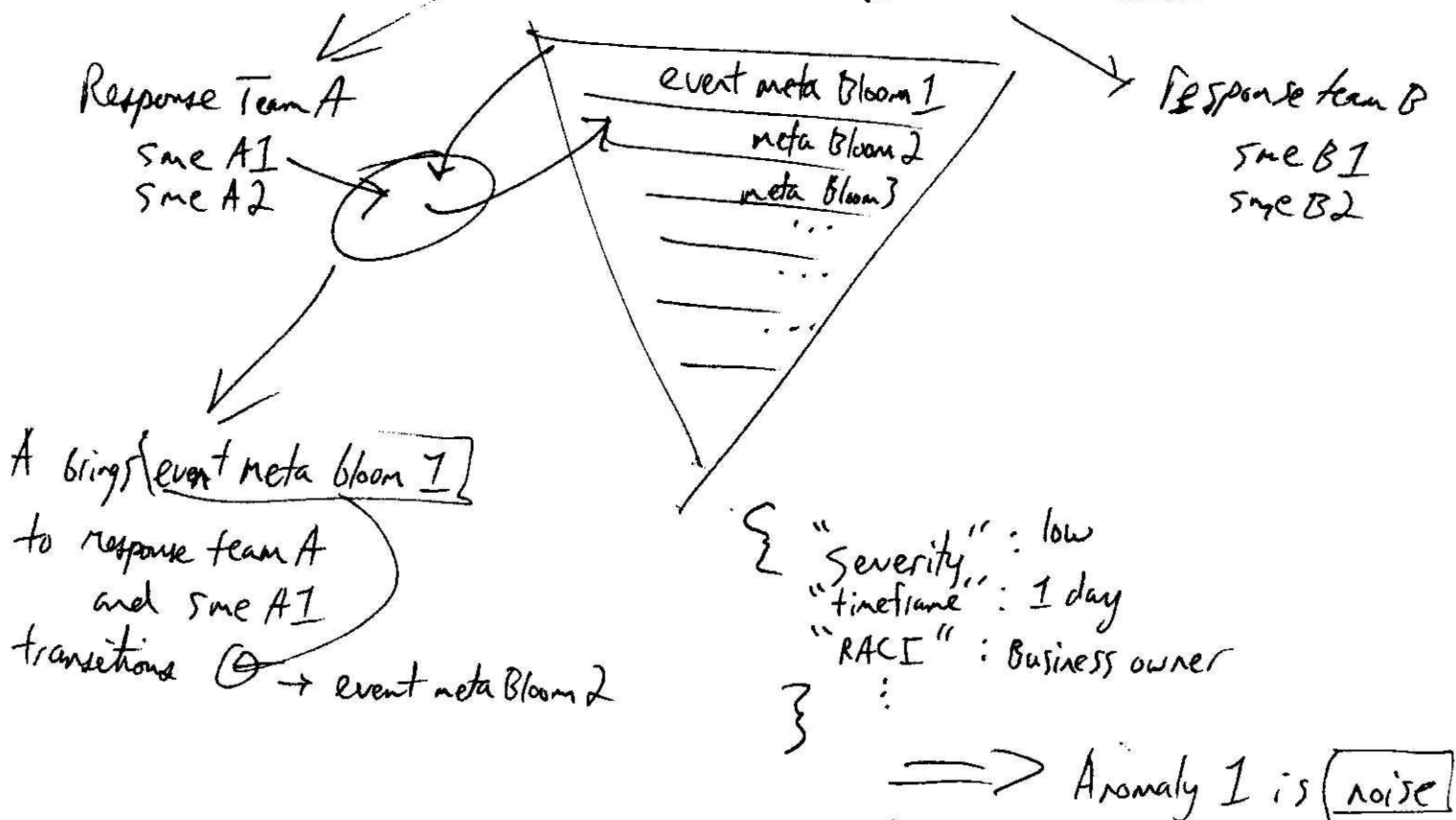
Interdependent Anomaly Detection

Objective : Record a scenario to recall for a behavioral interview

Approach : Write out the scenario, then describe how I behaviorally handled it

Formation :

Person A and Person B catch anomalies by using workflows.

Anomalies are relative to patterns.

| A finds Anomaly 1 | and | B finds anomaly 2 |

Response Team A
sme A1
sme A2

event meta bloom 1
meta bloom 2
meta bloom 3
. . .
. . .
. . .

Response team B
sme B1
sme B2

A brings |event meta bloom 1|
to response team A
and sme A1
transitions ⓔ → event meta bloom 2

{
 "severity" : low
 "timeframe" : 1 day
 "RACI" : Business owner
 :
}

⟹ Anomaly 1 is |noise|

When A and B are in their own thread
of evaluation of anomalies, they have limited information
on the transitions of the event anomaly Bloom states.

Assume Anomaly 1 was determined as noise

Then B finds Anomaly 1

and A does not understand why Anomaly 1 is noise

How does A behaviorally deal with B when B
asks A what to do about Anomaly 1 - stating the rule
that B themselves will always report out.

Issue 1   A does not want to repeat that
          A1 was noise because A does not have
          the authority or the expertise

Why an issue   A will be relying on a dogma
               that "A1 is noise"
               this is a sin of omission between A and B

Solution   Synchronize the asynchronous arrival and
           addressment of anomalies by recording/documenting
           Anomaly detection and meeting on a regular
           basis to review the anomalies (and backfill the
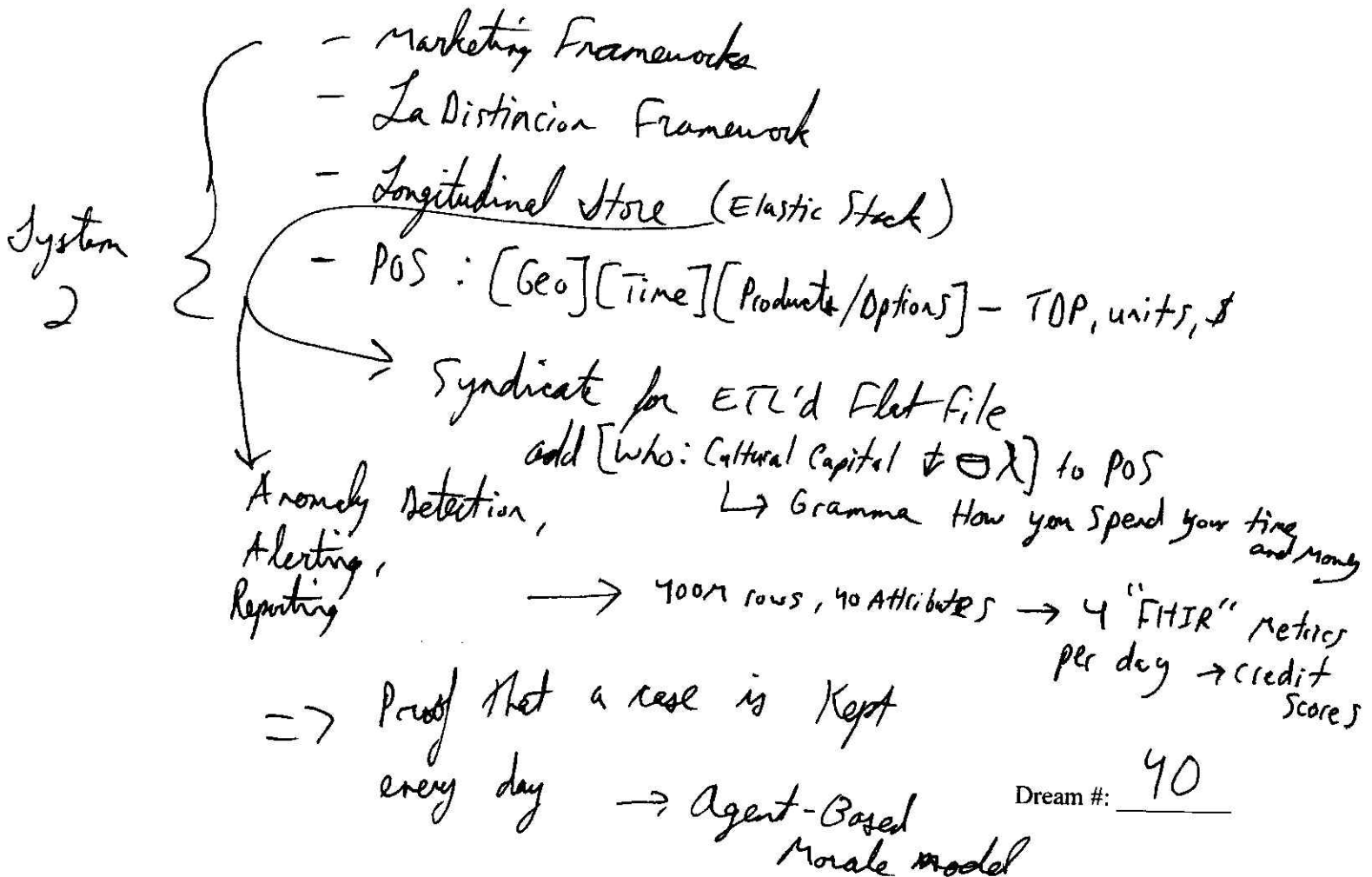   workflows/dashboards to catch the anomaly next time).

+ Risk of Future
Conflict from
synchronizing the
same anomaly ↑ evaluation

Dream Time	33 - 3d
Identity	System 2
What	• System 2 fleshed out • Indicates Credit scores are kept and boundaries are erected to preserve morale
So What?	Provides System of Frameworks are Architecting to document the places I have lived
Stakeholder	Posterity Secret

Approach:

System 2 is fleshing out ... can be applied as proof of Patriot Act not difficult to mge.

Formation:

System 2 {
- Marketing Frameworks
- La Distincion Framework
- Longitudinal Store (Elastic Stack)
- POS : [Geo][Time][Products/Options] — TOP, units, $

Syndicate for ETL'd Flat file
add [Who: Cultural Capital $\neq \ominus \lambda$] to POS
↳ Gramma How you Spend your time and money

Anomaly Detection,
Alerting,
Reporting

→ 400M rows, 40 Attributes → 4 "FHIR" metrics per day → credit scores

⟹ Proof that a rose is Kept every day → Agent-Based Morale model

Dream #: 40

Execution:

Having handled Store Beer Data (400n rows, 40 attr) on a weekly basis with a 64 GB RAM computer that took 2 hours to process, it was obvious this is not difficult to process every day...

La Distincion sets a framework that ties in the Market Analysis for the communities I have been a part of. Doubling down on my lot means understanding my _places_ through System 2 traceability.

The daily score that is kept can be stored as an event in the longitudinal store: from which anomalies may be detected and stakeholders are notified.

Agent-based morale models produce the need for boundaries to preserve morale for the cultural producers: those who _actively_ transact ⇓ ⊖ λ.

Signature: _____   Date: 2024-05-09

Dream Time	33-3d
Identity	Kickoff Market Research
What	• Reduce time-to-market • 5 months of using System 1 and System 2
So What?	UX feedback at a prime time for studying market behavior
Stakeholder	Richards Plus, LLC

Approach: Contract with Chris, Hayden, Jason, Omar, and Barrett for 6 months, kickoff market research before the election. Barrett is formal marketer. Daniel is informal artist.

Formation:

$20/hr
$$5hr/wk \rightarrow C, H, J, O \implies \$400/wk$$
$$10hr/wk \rightarrow B \implies \$200/wk$$
$$me \implies \$150/wk$$

<u>Objective</u>: Reduce time to discover <u>people</u> and <u>products</u> ~~for a~~ in markets that may return ~~profit~~.

<u>Tactics</u>: Refine <u>reporting</u>, <u>anomaly detection</u>, and <u>alerting</u> features of Context.io, and get ~~UX~~ feedback to develop data pipelines.

<u>Operations</u>: Use <u>System 1</u> and <u>System 2</u> on <u>tech inventory</u>, and meet bi-weekly.

total : $750/wk
× 4 wk
$3,000 / month
~~× 6 month~~
~~$18,000~~
× 5 months
$15 K

Dream #: 100

Execution:

This group can help reduce the time it takes to hone in on the people and products in the markets that may return profits. My Dad, ~~an~~ an expert in software architecture and product lifecycle management, consulted that it would take me two years to hone in on my product or service — given my initial tech and capital conditions. This loan of $15K will help reduce the time to ~~th~~ market of Context.io and its' applications in market analysis.

The contractors I will hire can be trusted, and are diverse in skill and background. They are proficient in using technology such as the tools I will be providing, and are professionals in their own rite.

I plan to pay back the loan over a long period, and believe that investing in myself is the key to wealth generation.

Signature: _Jefferson_

Date: 2024-05-14