

Emotionally Intelligent Machines & Sentiment Synthesis based on Ancient Vedic Astrology

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Abstract

Keywords:

1 Introduction

2 Research Model & Hypothesis

The paper mainly describes the discussion on some similarities and relationships between the parameters of mathematical dynamical systems, ancient vedic astrology, psychology of human behaviour & artificial neural networks which has been found during the study of Emotional Artificial Intelligence (EAI). These parameters can be useful in synthesis of sentiments in machines and algorithms by means of the generation of artificial intuition based on the concept of vedic astrology which will lead to the development of more emotionally smart and intelligent systems. These type of systems can be very helpful to fulfill the current needs and requirements of emotional artificial intelligence in many areas such as in Healthcare, Education, Business Intelligence, Social Media, Automobile, etc.

3 Related Work & Review of Literature

3.1 What is Artificial Intelligence?

Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to perform tasks that normally require human intelligence such as learning, problem-solving, decision-making, perception, language understanding, and more[3]. AI systems use algorithms and statistical models to analyze data, recognize patterns, and make predictions, without explicit instructions from human operators.

3.2 Limitations of Artificial Intelligence

Although artificial intelligence (AI) has made significant advancements in recent years, there are still some limitations to the technology. Some of the limitations are:

- **Lack of Common Sense:** AI systems lack the common sense that humans have, which can make it difficult for them to understand complex situations and make appropriate decisions.
- **Limited Creativity:** AI systems are designed

to operate within the parameters set by their algorithms and data, which limits their ability to generate truly creative solutions or ideas.

- **Lack of Emotional Intelligence:** AI systems are not capable of experiencing emotions, which limits their ability to understand and respond to emotional cues in human interactions.

Limitations of AI highlight the need for continued research and development to address these issues and improve the capabilities of these systems.

3.3 What is Emotional Intelligence?

Emotional Intelligence (EI) refers to the ability to recognize, understand and manage one's own emotions as well as the emotions of others. It involves being able to use emotional information to guide thinking and behavior, and to navigate social situations effectively[3].

EI is often described as having four components: self-awareness, self-management, social awareness, and relationship management. Self-awareness involves recognizing and understanding one's own emotions, strengths, and weaknesses. Self-management involves being able to regulate one's own emotions and behaviors in response to different situations. Social awareness involves recognizing and understanding the emotions of others, as well as the social norms and expectations of different situations. Relationship management involves using emotional information to communicate effectively, build and maintain relationships, and resolve conflicts.

EI is considered an important factor in personal and professional success, as it can help individuals navigate social interactions, build strong relationships, and manage stress and challenges effectively.

3.4 Emotional Artificial Intelligence

3.4.1 Definition

3.4.2 Limitations of Artificial Intelligence

3.4.3 Why Truly Intelligent Machines Need Emotions?

3.4.4 Need, Importance & Benifits

3.4.5 Applications

[3]

3.5 Conscious, Subconscious & Unconscious of Aritificial Intelligence

3.6 Convergence, Divergence and Belief Systems of AI

3.6.1 Stability and Unstability

3.7 Emotion Dynamics

3.8 The Butterfly Effect & Chaos Theory

Richard A. Anthes in 2022 by his paper "Predictability & Predictions" showed his experiences with predictability theory and weather predictions began as an undergraduate student at the University of Wisconsin in Madison in the early 1960s. His interest in numerical simulations led to the development of a simple nonlinear one-dimensional gravity wave model and later a nonlinear, baroclinic, three-dimensional model of the tropical cyclone. His experiences highlighted the challenges of numerical and physical instabilities in weather prediction models [1]. [4]

3.9 Quantum Level V/S Cosmic Level

3.9.1 Microscopic V/S Macroscopic

3.10 Plutchik's Wheel of Emotions

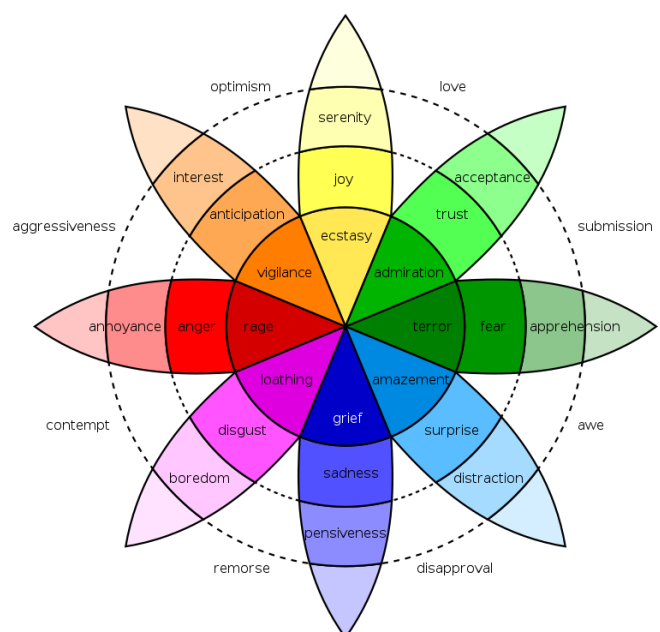


Figure 1: Plutchik's Wheel of Emotions

Figure 1 shows PWOE.

3.11 Ancient Vedic Astrology

A Brief History of Ancient Vedic Astrology

3.11.1 Classification of Vedic Astrology

3.11.2 Surya Siddhanta

3.11.3 Vrihat Samhita

3.11.4 Brihat Parashar Hora Shastra

101 Chapters 4500 Verses

3.11.5 Significance of Planets

देवेज्यो ज्ञानसुखदो भृगुर्वीर्यप्रदयकः ।
ऋषिभिः प्राक्तनैः प्रोक्तश्छायासूनुश्च दुःखदः ॥३:१४॥[2]

4 Methodology

5 Implementation & Planned Experiments

6 Conclusion & Outlook

Summary

The human mind is a very complex dynamical system that evolves over time in responses to the various inputs from the environment. To understand this in simple words, let's imagine what will happen if human mind does not have any type of memory with it or it will act as a static system. What will be our experience in this case? How does it feel like? If it will be the case, then everything will be instantaneous for us. There is no happiness, no sadness no fear & no anger. There will be no emotions. There will be no experience of feeling anything due to the absence of memory. This will happen because our mind collects all the past experiences of our life as data in the memory and whenever will be a situation to deal, it extracts the information of the past experiences stored inside the memory, compares this information with the present input, and decides how to handle with and react in this situation. This task handling experience is stored again in the memory for the future processing.

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Annotated Bibliography

Appendix