

Formal Architecture and Decision Dynamics of the MPHD System

A Technical Note on Affective Topology and the Tangent of Anguish

Antônio Rodrigues de Miranda Júnior
Independent Researcher – Recife, Brazil
ORCID: <https://orcid.org/0009-0001-0555-5916>
Email: armjrpsicanalise@gmail.com

Abstract

This technical note formalizes the structural architecture of the Propedeutic-Hermeneutic Method of Displacement (MPHD). The framework establishes a multi-layered heuristic model for analyzing decision dynamics by integrating existence, perception, affective topology, and symbolic governance. By mapping the sequential transformation of ontological states into operational outputs, the MPHD provides a formal calculus for systemic stability. A cornerstone of this model is the definition of the Tangent of Anguish, a mathematical representation of the threshold where affective saturation induces non-linear ruptures in decision-making. This framework serves as a meta-analytical instrument for evaluating stability in complex environments, ranging from human cognition to the governance of autonomous artificial intelligence systems.

Keywords: MPHD, Meta-Audit, Affective Topology, Decision Calculus, Systemic Stability, AI Governance.

1. Introduction

Human decision-making is rarely the result of purely rational processes. Instead, decisions emerge from complex interactions between perception, affective states and symbolic interpretation of reality. The Propedeutic-Hermeneutic Method of Displacement (MPHD) proposes a structural framework capable of describing these dynamics. Rather than treating decision as an isolated cognitive event, the MPHD conceptualizes decision as the outcome of a multi-layered transformation process that begins with the ontological state of the world and progresses through perceptual interpretation, affective modulation and symbolic mediation.

2. Canonical Transformation Pipeline

The MPHD operates through the following transformation pipeline: $E \rightarrow P \rightarrow A \rightarrow S \rightarrow D$
Existence (E): Ontological grounding; the raw state of the world before interpretation. Perception (P): Transduction layer translating existence into structured experience. $P = f(E)$ Affective Topology (A): Energetic modulation layer composed of emotional vectors. Symbolic Governance (S): Regulatory layer formed by language, culture, and institutions. Decision (D): Operational output of the system.

3. Affective Topology

The MPHJ proposes a circular topology composed of four affective vectors: Jealousy (C): relational exclusivity Envy (I): comparative lack Fear (M): threat detection Anguish (G): systemic pressure

$$|A| = \sqrt{C^2 + I^2 + M^2 + G^2}$$

4. Tangent of Anguish

When the vector of anguish reaches the system stability limit L, a rupture occurs: If $G \geq L \rightarrow T = 1$
This phenomenon is defined as the Tangent of Anguish.

5. Decision Equation

$$D = S(A(P(E))) + T$$

6. Conclusion

The MPHD establishes a structured analytical framework for investigating decision stability. By modeling the interaction between perception, affective topology and symbolic mediation, the system offers a conceptual instrument for analyzing stability and rupture in complex environments. Future work will explore computational simulations of the MPHD architecture and its application to AI governance and decision monitoring systems.

Figure 1 – Structural Architecture of the MPHD Decision System

