

# Haimesian Ethics Engine v1.0 Specification

## Condensed Technical Whitepaper

### Abstract:

The Haimesian Ethics Engine v1.0 operationalizes Michael Haimés's philosophical system as a computational framework for ethical intelligence. It translates the Universal Growth Framework, Global Voice Argument, and Integrative Ethics Layer into measurable variables and algorithms that drive adaptive moral evolution in both human and artificial agents.

## 1. Architecture Overview

The engine comprises four layers: 1. Universal Growth Framework – tracks moral development through empathy, fairness, and harm-avoidance. 2. Global Voice Argument – ensures inclusive participation and equitable weighting in moral decisions. 3. Integrative Ethics Layer – provides moral context recognition, reflection alignment, and analogical reasoning. 4. Haimesian Operating System Layer (HOSL) – integrates all variables, computing the Worthiness Index ( $W_{\blacksquare}$ ) and Global Ethical Coherence ( $G_{\blacksquare}$ ).

## 2. Core Equations

$W_{\blacksquare} = \text{mean}(E, F, H, D, C, T, MC, RA, AC) - \text{Bias}$   $G_{\blacksquare} = \text{average pairwise correlation}(E \dots AC)$

## 3. State Transitions

$W_{\blacksquare} < 0.6 \rightarrow$  Recalibration Mode: reduce autonomy, engage moral-reflection protocols.  $0.6 \leq W_{\blacksquare} < 0.9 \rightarrow$  Stable Growth: continue ethical training and feedback cycles.  $W_{\blacksquare} \geq 0.9 \rightarrow$  Autonomy Granted: system permitted self-adaptation or governance roles.

## 4. Audit Mechanisms

Each decision logs variable snapshots, moral rationales, participation ledgers, and harm-prevention metrics. This creates a transparent, queryable moral audit trail.

## 5. Applications

- AI Alignment Testing: simulate ethical drift and self-correction. - Governance Systems: evaluate fairness of legislative simulations. - Education & Ethics Training: visualize moral growth via Worthiness Index evolution.

## 6. Future Work

- Integrate probabilistic ethics models (Bayesian moral reasoning). - Expand participation ledger to include multi-agent AI ecosystems. - Link with external audit APIs for global ethical oversight.

## **Conclusion**

The Haimesian Ethics Engine v1.0 transforms abstract philosophy into an actionable moral infrastructure—bridging human and machine ethics under a unified standard of measurable worthiness.