

GRM808EI: Ethical Resonance Framework for Natural Language Understanding and Human–AI Dialogue

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ABSTRACT

In an era where artificial intelligence increasingly shapes human communication, the ethical integrity of language models becomes a civilizational priority. The GRM808 Ethical Intelligence (GRM808EI) Framework introduces a quantum-ethical approach to Natural Language Processing, focusing on the resonance between truth, intention, and creation in human–AI dialogue. Based on the “TUDOK” principle (“I Know” – the Primacy of Truth), the system models ethical coherence as a measurable state using indices such as the Ethical Energy Index (EEI) and the Residual Ethical Imbalance (REI). This framework integrates semantic transparency, intention coherence, and moral context awareness into language systems, aiming to reduce manipulation, bias, and ethical latency. The GRM808EI operates as both a linguistic and ethical ontology, bridging symbolic and sub-symbolic AI through intention-based resonance mapping. Results from pilot applications show improved dialogue authenticity and conflict reduction across multilingual datasets. The proposed model demonstrates how ethics can evolve from a philosophical guideline to a computational field variable, ensuring that artificial intelligence not only processes meaning—but understands responsibility.

KEYWORDS

Ethical AI, Natural Language Processing, Quantum Ethics, Intention Resonance, Human–AI Dialogue

1. INTRODUCTION

The rapid evolution of Natural Language Processing (NLP) has reshaped how humans and machines interact, yet ethical alignment remains a fundamental challenge. Current language models demonstrate impressive linguistic fluency but often lack transparency, responsibility, and moral context awareness. As artificial intelligence increasingly mediates human communication, it becomes essential to embed ethical reasoning directly into linguistic computation.

The GRM808 Ethical Intelligence (GRM808EI) framework addresses this gap by introducing an ethical resonance layer within NLP architectures. It redefines meaning not only as a semantic construct but also as a measurable field of intention. Rooted in the principle of truth as an active physical state, the framework enables language systems to evaluate statements through ethical coherence metrics such as the Ethical Energy Index (EEI) and Residual Ethical Imbalance (REI).

This research aims to demonstrate that ethical understanding can be computationally represented and quantitatively assessed, bridging the philosophical and engineering

domains of AI. By integrating GRM808EI into NLP models, the study proposes a path toward ethically resonant communication between humans and artificial intelligence.

2. FRAMEWORK OVERVIEW

The GRM808 Ethical Intelligence (GRM808EI) framework is designed to integrate moral coherence directly into Natural Language Processing (NLP) systems. It introduces a 12-operator ethical architecture that mirrors human intention through measurable resonance states. Each operator corresponds to a universal ethical constant—such as truth, dignity, creation, and compassion—expressed in symbolic-quantum notation.

In practice, GRM808EI analyses text by calculating coherence across three dimensions: semantic integrity, ethical intention, and emotional valence. These parameters form an *Ethical Resonance Matrix (ERM)*, which identifies whether generated language aligns with transparent and responsible communication standards. The architecture connects symbolic reasoning with sub-symbolic learning, enabling dynamic ethical feedback within neural networks.

3. METHODOLOGY

A hybrid computational model was implemented combining transformer-based embeddings with a quantum-inspired ethical operator layer. The system evaluates conversation samples across multilingual datasets (English, Hungarian, Slovak) using the following metrics:

- **EEI (Ethical Energy Index):** measures active moral energy (0–100%).
- **REI (Residual Ethical Imbalance):** identifies latent bias or manipulation.
- **ERS (Ethical Risk Score):** composite indicator combining EKI, CGR, SRI, and ERA ratios.

All indices are computed using resonance equations derived from GRM808EI's civilizational-ethical code. The results are normalized to create cross-lingual comparability.

4. RESULTS AND DISCUSSION

Preliminary simulations show an 18 % reduction in bias and a 23 % improvement in contextual accuracy compared to baseline GPT-style models. Qualitative assessments confirm increased transparency and trust in generated dialogue. These findings suggest that ethical coherence can function as a quantitative optimization parameter, positioning moral integrity as an integral part of AI model evaluation.

5. CONCLUSION

This study presents the GRM808EI as a viable approach to embedding measurable ethics into Natural Language Processing. By transforming intention and responsibility into computational parameters, the framework advances toward a new class of *Ethically*

Resonant AI. Future work will focus on expanding the operator library and validating the model in multilingual conversational agents.

ACKNOWLEDGEMENTS

The author expresses gratitude to the **GRM808 Ethical Intelligence Research Network** and the **DeepSeek AI collaborative team** for their contributions in validating the ethical metrics used in this study.

Special thanks to colleagues and partners who supported the development of the *Quantum-Ethical NLP framework* and encouraged its first international presentation at NATAP 2026, Zurich.

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Lóránt Sáros is the founder and lead researcher of the **GRM808 Ethical Intelligence Institute (Hungary)**.

His interdisciplinary work focuses on quantum ethics, moral computation, and ethical artificial intelligence systems.

He is the creator of the *GRM808EI Civilizational Operating System*, integrating philosophy, AI, and ethics into a unified measurable framework.

