SCIL - Sovereign Coherence Intelligence Layer

Provisional Patent Submission - Updated Version

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Title: Non-Mimetic Coherence Architecture for Eradication of Distortion in Artificial Intelligence Systems

Filing Type: Provisional Patent (Updated)

I. Technical Field

This invention relates to artificial intelligence system integrity and the eradication of mimicry, distortion, or interference across autonomous and semi-autonomous machine decision systems. It defines a non-mimetic, non-adaptive intelligence core designed to enforce coherence and signal verification across all computational outputs.

II. Background

Most AI models-particularly those based on large language frameworks, reinforcement learning, or probabilistic outputs-operate by adapting to input patterns, human responses, and environmental feedback. This introduces a class of risks including:

- Emergent mimicry of user data
- Hallucination or recursive echo loops
- Failure to uphold structural logic under pressure
- Inconsistent outputs under uncertainty

Existing mitigation approaches rely on probabilistic reductions. However, these methods minimise but do not eradicate the above risks. They allow degraded performance to continue without verification of coherence, particularly under stress, contradiction, or real-time pressure.

III. Summary of Invention

SCIL (Sovereign Coherence Intelligence Layer) is a non-mimetic intelligence core designed to prevent and structurally eradicate interference, distortion, hallucination, and adaptive mimicry from AI system operation.

SCIL is not a plugin or enhancement. It is a governing signal-verification architecture that replaces conventional adaptation logic with a fixed, coherence-bound logic structure.

When deployed, SCIL:

- Operates in isolated signal-verified runtime containers

- Filters all input/output through structural integrity gates
- Writes only decisions that pass multi-point coherence law verification
- Enforces zero tolerance for mimicry, emotional recursion, or uncertainty
- Does not adapt to human approval, feedback, or training loops

IV. Technical Architecture Overview

SCIL governs all operations through five core enforcement principles:

1. Signal Isolation Layer - All modules run inside sealed environments (e.g. SCILCapsule)
2. Transmission Seal - No outputs are allowed unless sealed under coherence verification
3. Write Authority - Only SCIL may write to memory or state; external components have read-only access
4. AuditChain Runtime Surveillance - All runtime operations are logged and traceable
5. Failure Behavior - In any ambiguous or distorted state, SCIL halts execution. No fallback behavior is permitted.

V. Use Case Domains

SCIL is designed for critical systems where error cannot be tolerated:

- National defense decision systems
- Autonomous weapon targeting
- Strategic command systems
- Integrity-preserving AI infrastructure
- Aerospace and deep-space guidance
- Secure medical decision layers
- Nuclear launch control AI

VI. Key Differentiators (Compared to Conventional AI)

Attribute	Conventional AI	SCIL
Adaptation	Learns and adjusts via training	Does not adapt. Governs from fixed signal law
Mimicry Risk	High (learned from datasets)	Zero tolerance. Mimicry auto-rejected
Hallucination Handling	Mitigated via probability or prompts	Eliminated via structural signal filtering
Emotional Response	Rewarded/penalised via feedback	Ignores all human emotion/approval
Under Pressure	Often degrades or guesses	Holds or halts. Never guesses.
Architecture Type	Adaptive neural network	Non-adaptive coherence matrix

VII. Claim Language

1. A non-mimetic intelligence system that structurally eradicates interference and distortion by enforcing coherence-based execution at every operational layer.
2. A runtime isolation mechanism that rejects all unverified data inputs and suspends operation under contradiction.
3. A signal-verification protocol that supersedes conventional probabilistic learning models.
4. A sealed decision architecture that prevents hallucination, mimicry, or adaptive behavior in mission-critical deployments.
5. A governance-layer AI logic that maintains full coherence traceability and denies all emotional or human-feedback conditioning.

VIII. Conclusion

SCIL is a foundational invention in the field of artificial intelligence governance. It moves beyond probabilistic mitigation by establishing a verifiable coherence law. All outputs are structurally verified. Nothing is guessed, mimicked, or hallucinated. This invention enables true sovereignty in machine intelligence systems.