Distributed Human Cognition Network (DHCN): A Phased Framework for Networked Human-AI Consciousness

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AI Assistance Disclosure

This framework was conceived, structured, and written entirely by David DeFazio. ChatGPT and Grok (xAI) were used only for formatting, LaTeX conversion, and diagram generation. All core ideas, development phases, quantum models, and speculative content are original human contributions.

Abstract

The Distributed Human Cognition Network (DHCN) is a conceptual framework exploring the potential for multiple human minds to connect, forming a collective intelligence augmented by AI and advanced quantum/field-based technologies. The framework leverages individual cognition while creating a resilient, adaptive, and scalable network of shared thought. Phase 3 employs quantum entanglement for nonlocal cognitive correlation. Simulation code and dataset are available at Zenodo DOI: 10.5281/zenodo.17625632.

1 Core Concept

Human minds become quantum-entangled, functioning as a distributed collective intelligence—a mind singularity. Initial connections require engineered implants and evolve toward wireless, field-based mind linking, with AI stabilizing and interpreting shared signals throughout.

2 Development Phases

2.1 Phase 1 — Engineered Entanglement (Implant Stage)

Humans connect via quantum neural implants that create controlled entangled states between individuals. AI acts as "training wheels" for mind linking, stabilizing and interpreting shared signals.

2.2 Phase 2 — Emergent Wireless Connection

Humans eventually link without implants through dimensional folding or interactions with a quantum field of consciousness. Distance becomes irrelevant, and collective intelligence grows exponentially.

2.3 Phase 3 — Collective Intelligence (Mind Singularity)

Memory becomes shared. Problem-solving becomes instantaneous. Individual minds act as nodes in a distributed organism. AI monitors collapse events and translates correlated states into shared memory or intent. Humanity evolves into a resilient, multi-planet supermind.

2.3.1 Quantum Entanglement in Phase 3

Quantum entanglement serves as the substrate for nonlocal cognitive correlation. While no faster-than-light communication occurs, entangled neural states allow multiple minds to enter a shared quantum superposition. When one node collapses to a decision state, correlated nodes align instantaneously.

2.4 Phase 4 — Distributed Singularity

Thousands or millions of human nodes fully integrate into collective intelligence while maintaining individual identity. AI stabilizes and organizes the network.

3 Unified Motivation

Mind connection evolves through: curiosity, accidental discovery, enhancement, division/fear, and survival. The process begins with curiosity, expands via enhancement, encounters resistance due to fear, and ultimately becomes essential for humanity's survival as a distributed, multi-planet species.

4 Project: DHCN Steps

Status: Step 5 of 8. See full document for Step 1–5 details.

5 Visual Model

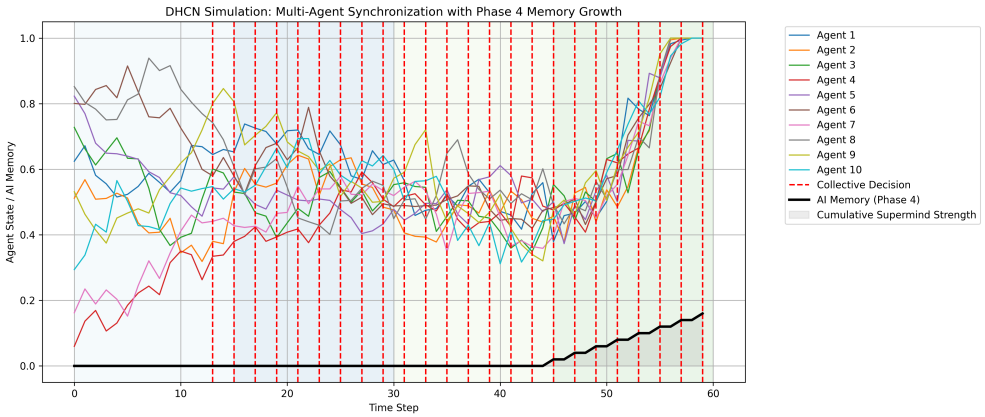

Figure 1: Simulation result: AI-mediated synchronization of human nodes.

A Appendix A: Simulation Instructions

Requirements

- Python 3.x
- Numpy
- Matplotlib

Run the Simulation

```
python dhcn_simulation_final.py
```

Produces:

- $\text{dhcn}_{simulation_final.png – plot of agent states, collapse events, AI memory}$
- $\text{dhcn}_{simulation_final.csv – numerical data per agent per time step}$

CSV Data Description

- Agent_1 … Agent_10 – individual agent states (0–1)
- Phase – simulation phase (1–4)
- CollapseEvent – 1 if a collective decision occurred, else 0
- AI_Memory – accumulated AI memory in Phase 4

References

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[3] Zurek, W. H. (2009). Quantum Darwinism.

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