

HER-Field:  
Aggregate Coherence and Topic Prevalence  
in Human–AI Interaction Systems  
Conceptual Prior Art Note (Non-Normative)

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### Abstract

This document establishes conceptual prior art for HER-Field, an aggregate-level extension of coherence-based human–AI interaction metrics. HER-Field concerns the computation and display of system-level coherence signals and coarse topic prevalence across opt-in populations, defined as frequency of interaction themes without semantic interpretation or attribution. The purpose of this note is to define scope, constraints, and non-goals, and to prevent enclosure of these concepts by proprietary or misleading implementations.

## 1 Background

HER-Field extends the HER2NI protocol, which defines interaction-level coherence metrics for human–AI systems, including Carbon Score ( $C_s$ ), Silicon Score ( $S_s$ ), and HER Score ( $H_s$ ). While HER2NI focuses on stability, drift, contradiction, and collapse within individual interaction trajectories, HER-Field concerns aggregate signals derived from multiple concurrent interactions.

This document does not specify algorithms, thresholds, or user interfaces. It establishes conceptual scope only.

## 2 Conceptual Definition

HER-Field refers to the computation of aggregate signals derived from multiple HER2NI-compliant interactions, including:

- Aggregate coherence measures over time (e.g., population-level  $H_s(t)$ )
- Coarse topic prevalence distributions derived from interaction content
- System-level stability or drift indicators

These signals are intended to describe properties of interaction systems as a whole, not properties of individuals or groups.

### 3 Hard Constraints

Any HER-Field implementation consistent with this prior art must satisfy the following constraints:

- Aggregation only; no individual-level display or inference
- Explicit opt-in by participating systems or users
- No storage or exposure of personally identifiable information
- No claims regarding beliefs, emotions, intentions, or mental states
- No representation of aggregate signals as thoughts, feelings, or beliefs
- No drill-down capability below the aggregate level

HER-Field signals must be interpretable as properties of system dynamics, not as measurements of people.

### 4 Non-Goals

HER-Field explicitly does not aim to:

- Rank groups, institutions, regions, or populations
- Enable competitive leaderboards between human collectives
- Infer sentiment, opinion, ideology, or psychological attributes
- Replace or augment clinical, diagnostic, or therapeutic processes

### 5 Relationship to HER2NI

HER-Field is dependent on HER2NI-compliant interaction metrics but is not a required component of the HER2NI protocol. Systems may implement HER2NI without any HER-Field aggregation.

HER2NI Protocol Specification:

S. Black. *Human-Emergent Resonance to Neural Intelligence*.

Zenodo. DOI: 10.5281/zenodo.17844407

### 6 Status

This document is a conceptual prior art declaration. It is non-normative and does not prescribe implementations.

**Version** 0.1

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