



[Home](#) [Licensing](#) [Patents](#) [Articles](#)

Hume AI Measures Emotion but Cannot Govern It

by [Nick Clark](#) | Published March 28, 2026 | [PDF](#)

Hume AI built the most technically ambitious emotion measurement platform available: voice prosody analysis, facial action unit detection, and language sentiment scoring delivered through a real-time API. The multimodal fusion is genuine engineering. But measurement produces snapshots, not state. Hume can tell you what someone appears to be feeling right now. It cannot maintain, decay, or govern the emotional trajectory that those measurements imply. Closing that gap requires affective state as a deterministic computational primitive, not higher-resolution sensing.

What Hume built

Hume's platform ingests audio, video, and text and returns emotion scores across dozens of expressive dimensions. The voice model captures prosody features that correlate with emotional states. The facial model tracks action units defined by the Facial Action Coding System. The language model scores

sentiment and emotional tone. These signals are fused into a unified emotional readout updated in real time as conversation progresses.

The API enables applications to respond to detected emotional states: adjust tone when frustration is detected, escalate when distress appears, or modulate pacing when engagement drops. The measurement layer is technically sound and the API design makes integration straightforward.

The gap between measurement and state

Measurement tells you what is expressed at a moment. State tells you what persists across moments and how it evolves. Hume's frustration score at timestamp T is an observation. It does not carry forward. At timestamp T+1, a new measurement is taken independently. The platform does not maintain a frustration field that accumulates with repeated negative interactions, decays when conditions improve, and modulates how subsequent measurements are interpreted.

This matters because emotional dynamics are temporal. A customer who has been mildly frustrated across five interactions is in a different emotional state than one who is acutely frustrated in a single interaction, even if the instantaneous measurement is identical. The accumulated trajectory determines appropriate response, not the point measurement. Without persistent state fields, the system treats every measurement as if it occurred in isolation.

The consequence is that Hume-powered applications react to expression but cannot track emotional trajectory. They see the current face of emotion without knowing its history, its decay rate, or its interaction with other emotional dimensions.

Why richer sensing does not resolve the problem

The natural response is to add more sensors, more modalities, more granular measurement. Hume has pursued this path with rigor. But the problem is not measurement resolution. The problem is architectural: there is no persistent state object to which measurements contribute. Adding physiological sensors, eye-tracking, or galvanic skin response produces more observations per unit time. It does not produce state that evolves according to defined rules.

Persistent affective state requires named fields with specific properties. Each field is a continuous value with an update function that responds asymmetrically to positive and negative inputs. Each field decays exponentially at a rate governed by personality parameters. Each field couples to other fields: frustration interacting with trust produces different behavioral implications than frustration interacting with curiosity. These interactions are computable only when the fields exist as persistent state, not when they are reconstructed from measurement streams.

What affective state enables for emotion-aware platforms

With deterministic affective primitives, Hume's measurements become inputs to a governed state machine rather than standalone observations. Each emotion measurement updates the corresponding state field according to its asymmetric update rule. The field values decay between measurements. The coupling between fields produces emergent emotional dynamics that reflect accumulated history, not just current expression. An application powered by this architecture does not merely detect that frustration is present. It knows that frustration has been building across three sessions, has not yet peaked, and is currently modulated by residual trust from an earlier positive interaction. That computational context transforms reactive emotion detection into governed emotional understanding.

[Affective State All 21 steps →](#)

Emotion as a computational primitive, not a simulation.

Primary Technical Disclosure

[○ Affective State as a Deterministic Control Primitive for Semantic Agents](#)

Secondary Technical

[○ Affective State as Seventh Canonical Field](#) [○ Named Control Field Modulation Architecture](#) [○ Affect-Modulated Promotion Thresholds](#) [○ Deterministic Affect Encoding and Update Mechanics](#) [○ Emotional Decay Curves With Hysteresis](#) [○ Entropy-Governed Valence Stabilization](#) [○ Affective Inheritance in Delegation Chains](#) [○ Emotional Quarantine and Volatility Management](#) [○ Affect-Modulated Trust Slope Validation](#) [○ Biological Signal-to-Affective Coupling](#) [○ Affective Contagion in Multi-Agent Systems](#) [○ Affect-Modulated Discovery Traversal](#) [○ Affect-Governance Separation](#) [○ Policy-Bounded Affective Updates](#) [○ Affect as Cross-Primitive Input](#) [○ Affect-Modulated Inference Integration](#) [○ Substrate-Agnostic Affect Deployment](#) [○ Pseudonymous Emotional Operation](#) [○ Temporal Cognition Field](#)

Applications (General)

[○ Companion AI That Maintains Emotional Consistency Across Sessions](#) [○ Therapeutic Agent Affect Management Under Clinical Constraints](#) [○ Affective State for Customer Service Agents](#) [○ Affective State for Elderly Care Companion Agents](#) [○ Affective State for Crisis Response Agents](#) [○ Affective State for Negotiation Agents](#) [○ Affective State for Educational Tutoring Agents](#) [○ Affective State for HR and Recruitment Agents](#)

Applications (Specific)

[○ Replika's Emotional Memory Is Stateless](#) [○ Character.ai's Personality Problem Is Deeper Than Prompting](#) [○ Woebot's Therapeutic Affect Has No Persistent State](#) [○ Elomia's Empathy Resets Every Session](#) [● Hume AI Measures Emotion but Cannot Govern It](#) [○ Affectiva Reads Faces but Not Emotional Trajectories](#) [○ Cogito Scores Conversations Without Emotional State](#) [○ Beyond Verbal Decoded Voice Without Building Emotional Memory](#) [○ EmotiBit Captures Physiology Without Affective Governance](#) [○ RealEyes Measures Attention Without Emotional Persistence](#)

[Affective State overview →](#)

AQ

deterministic
autonomy

Legal

Subject to one or more pending U.S. and international patent applications, see [Patents](#) for the current list and status. No license, express or implied, is granted. Any use requires a separate written agreement—see [Licensing](#). Patent applications referenced on this site are pending. Claim scope, if any, is subject to examination and may issue in altered form or not at all. See [Legal](#) for terms and conditions.

Adaptive Query™ is a trademark of Nicholas Clark. U.S. federal registration is pending. federal registration. AQ™, AQ Inside™, Adaptive Index™, Adaptive Network™, Semantic Agent™, @AQ™, AQID™, and Adaptive Coin™ are used as trademarks in connection with the Adaptive Query platform

and brand. Other names may be trademarks of their respective owners.

Platform operated by Adaptive Query LLC, which provides patent and trademark licensing services. Copyright © 2025-2026 Nicholas Clark. All rights reserved.

Last updated: 2026-03-03



- [Inventive Steps](#)
- [Licensing](#)
- [Patents](#)
- [Articles](#)
- [Legal](#)
- [Opportunities](#)
- [Sitemap](#)



-
- nick@qu3ry.net
- 72 28 14 36 01



[Invented by Nick Clark](#) | Founding Investors: Devin Wilkie