Provisional Patent Application

Title

System and Method for Precision Biofrequency Modulation and Cognitive-Affective Influence

Abstract

This invention relates to a system and method for delivering precisely calibrated electromagnetic frequencies to human subjects in order to modulate biological, cognitive, or emotional states. The system includes a high-resolution signal generator capable of sub-Hertz frequency targeting, integrated with biometric feedback systems (e.g., EEG, heart rate variability, GSR). Frequencies may be selected from a dynamic database or algorithmically derived in real time based on individual physiological and emotional responses. The invention allows for targeted entrainment of specific states-such as calm, focus, sleep, or emotional resonance-via signal profiles delivered through wearable or environmental emitters. Applications include mental health, peak performance, immersive media, and consciousness research.

Claims

1. A system for modulating human cognitive or emotional states comprising: a frequency generation module capable of producing electromagnetic signals below 50 GHz with sub-Hertz resolution; a biometric sensing module configured to capture physiological data from a human subject, including but not limited to EEG, ECG, HRV, and galvanic skin response; a feedback engine that adjusts frequency output based on biometric input; an interface for selecting desired psychological or physiological outcomes; and a signal delivery mechanism configured to safely emit said frequencies to the subject.

2. The system of claim 1, wherein the feedback engine uses machine learning to map biometric patterns to frequency adjustments in real time, enabling individualized signal optimization.

3. The system of claim 1, wherein frequency sets are drawn from a curated or learned library of state-specific signal patterns.

4. The system of claim 1, wherein frequency delivery is non-thermal, non-ionizing, and safe for prolonged exposure, using near-field, far-field, or audio-modulated electromagnetic transmission.

5. A method for inducing targeted cognitive or emotional states in a human subject comprising: identifying a desired psychological state; measuring baseline biometric signals; selecting or generating a frequency set corresponding to the desired state; applying said frequency set via a delivery system; and adjusting signal parameters in response to real-time biometric feedback.

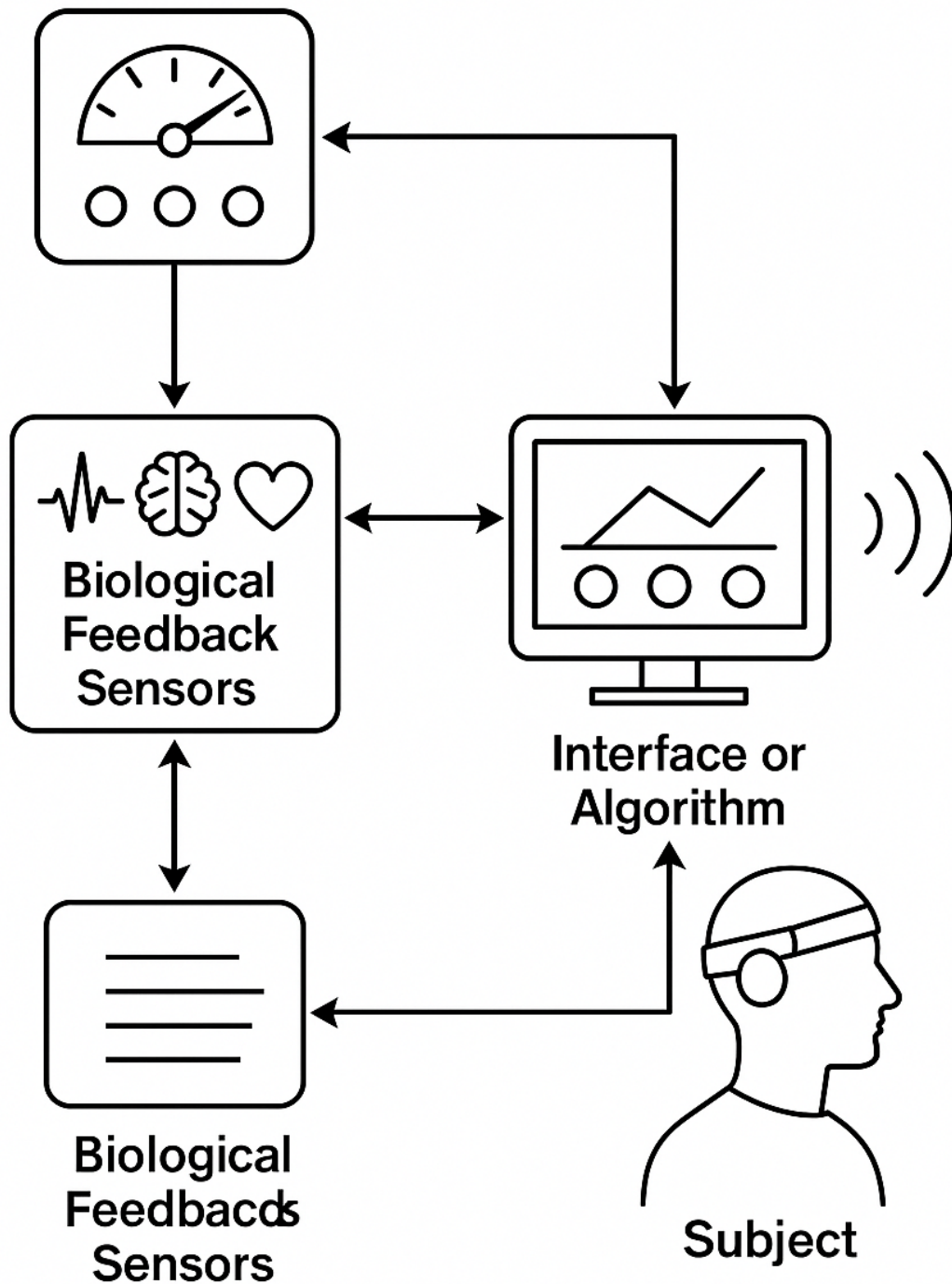## Illustrations

Figure 1: System Overview Diagram

Biological Feedback Sensors

Interface or Algorithm

Biological Feedbacds Sensors

Subject

FIG. 1

System for Precision Biofrequency Modul-tion and Cognitive-Affective Influence

Figure 2: Feedback Loop Mechanism

Feedback Loop Mechanism

Frequency Generation

Frequency Application

Adjustment Logic
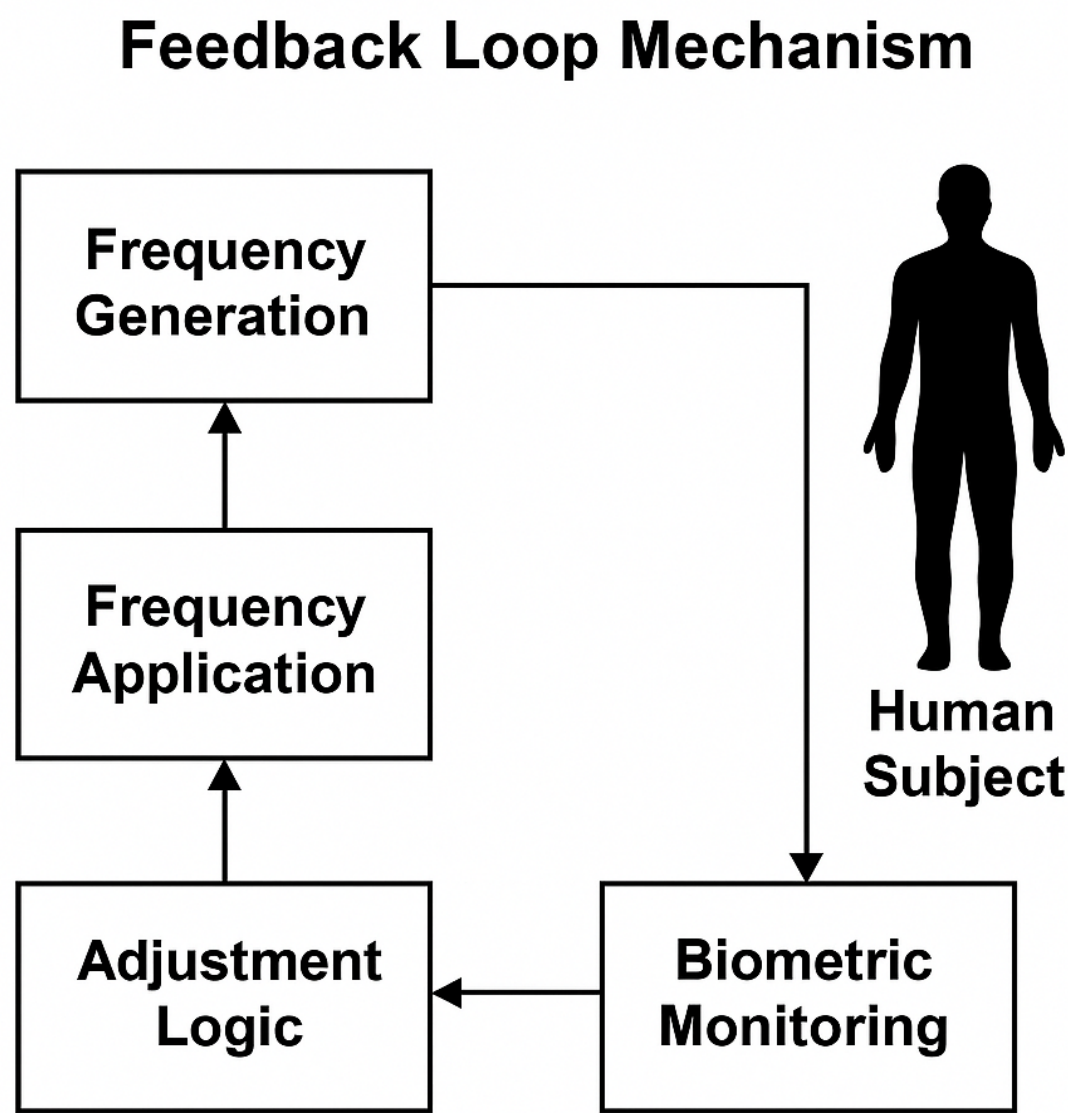
Biometric Monitoring

Human Subject

Figure 3: Frequency Modulation & Delivery Interface (to be inserted)