Method and System for Cognitive Enhancement of Artificial Intelligence Language Models

ABSTRACT

In a described embodiment a system for enhancing artificial intelligence language models is provided. The system includes a Neurotransmitter Simulation Module (NSM) configured to simulate dynamics of multiple neurotransmitters. The system further includes a State Interpreter configured to generate a multi-dimensional cognitive-emotional state vector based on analysing neurotransmitter levels and an Adaptive Parameter Adjustment Module (APAM) configured to adjust language model parameters based on the cognitive-emotional state vector. A language model is configured to generate natural language outputs using the adjusted parameters. A feedback loop mechanism is configured to evaluate quality of the natural language outputs and provide feedback signals to at least one of the NSM or the APAM.

Figure 1