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(57) Abstract :
 SYSTEM AND METHOD FOR SELF-EVOLVING NEURAL NETWORKS ENABLING ADAPTIVE KNOWLEDGE TRANSFER IN AI SYSTEMS ABSTRACT The present invention is a system 100 and method that introduces a cutting-edge approach to artificial intelligence (AI) by presenting a novel system and method. NeuroMorphix integrates self-evolving neural network modules 108 capable of autonomous adjustments in connection weights and architecture based on real-time learning experiences. This dynamic adaptation facilitates adaptive knowledge transfer within AI systems, enhancing their capacity to efficiently learn from diverse datasets and tasks. The system 100 employs a self-evolving algorithm, combining unsupervised and reinforcement learning techniques. Additionally, NeuroMorphix incorporates features such as specialized sub-modules for task-specific learning and a memory component for leveraging historical experiences. The invention represents a significant advancement in the field of AI, providing a versatile and adaptive framework for neural networks to evolve and optimize knowledge transfer capabilities.

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