

Discussion

The 2×2 matrix framework reveals Active Inference as a fundamentally meta-level methodology with profound implications for cognitive science, artificial intelligence, and our understanding of intelligence itself. This section explores the theoretical implications of viewing Active Inference through the lens of meta-pragmatic and meta-epistemic operation.

Meta-Pragmatic Implications

Active Inference's meta-pragmatic nature transcends traditional approaches to goal-directed behavior by enabling modelers to specify entire pragmatic frameworks rather than simple reward functions.

Beyond Reward Functions

Traditional reinforcement learning specifies rewards as scalar values: $[R(s,a) \quad R]$

Active Inference, however, allows specification of complete preference landscapes through matrix C : $[C(o) \quad R^{\{|O|\}}]$

This enables modeling of: - **Complex Value Structures:**