Conclusion

This paper has presented a systematic structure for understanding Active Inference as a meta-pragmatic and meta-epistemic methodology. Through the (2×2) matrix analysis of Data/Meta-Data $(\times)$ Cognitive/Meta-Cognitive processing, we have demonstrated how Active Inference operates across four distinct quadrants, each representing different combinations of processing levels and data types. This structure enables researchers to specify not just current beliefs and goals, but the very frameworks within which cognition occurs—making framework design itself a research question in cognitive science. The quadrant organization reveals how Active Inference operates simultaneously across multiple levels, from basic data processing (Quadrant 1) through meta-data integration (Quadrant 2), meta-cognitive reflection (Quadrant 3), to framework-level optimization (Quadrant 4), creating a comprehensive view of multi-level cognitive operation.

Summary of Contributions

Theoretical Framework