Autodraft: On Translating Epistemic Operators in a Logic of Awareness
Thread: ethos
Digest: /cohera/ethos/digests/auto-on-translating-epistemic-operators-in-a-logic-of-awareness.html

Summary excerpt:
Autodraft • On Translating Epistemic Operators in a Logic of Awareness • Cohera Lab Cohera Lab Home Research Cosmos Regenesis Ethos Publications About Autodraft: On Translating Epistemic Operators in a Logic of Awareness Date: 2026-02-23 • Thread: ethos • Status: extracted-draft • Confidence: low-medium Source chatgpt/pdf/On_Translating_Epistemic_Operators_in_a_Logic_of_Awareness.pdf DOI: not detected automatically. Auto summary (preview-based) . Awareness-Based Indistinguishability Logic (henceforth, AIL) is an extension of Epistemic Logic by introducing the notion of awareness, distinguishing explicit knowledge from implicit knowledge. In this framework, each of these notions is represented by a modal operator. On the other hand, HMS models, developed in the economics literature, also provide a formalization of those notions. Nevertheless, the behavior of the epistemic operators in AIL within HMS models has yet to be explored. In this paper, we define a transformation of an AIL model into an HMS model and then prove that a translation between the fragments of the language of AIL preserves truth under this transformation. As a result, we clarify the semantic role of an epistemic operator in AIL, which is induced by awareness and is essential to defining explicit knowledge, within HMS models. Furthermore, we demonstrate the differences in the implicit knowledge captured by AIL and HMS models. This work lays the groundwork for a comparative analysis between the model classes. Key findings (auto-extracted) Primary topic appears to center on: translating, epistemic, operators, logic. Source was auto-indexed and text-previewed for rapid triage. Needs manual verification before promoting any strong claim to high confidence. Evidence & citations Source file: chatgpt/pdf/On_Translating_Epistemic_Operators_in_a_Logic_of_Awareness.pdf Extraction scope: 1-2 Abstract/preview extracted automatically. Claim evidence mapping (auto) Claim: On Translating Epistemic Operators in a Logic of Awareness Yudai Kubono[0000000326178870] arXiv:2602.18040v1 [cs.LO] 20 Feb 2026 Graduate School of Science and Technology, Shizu Evidence quote: On Translating Epistemic Operators in a