

Peer Review

Review of: "Multiscale Entropic Ethics: A Non-Scalar, Auditable Grammar for Decision-Making Under Irreversibility"

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The manuscript "Multiscale Entropic Ethics: A Non-Scalar, Auditable Grammar for Decision-Making Under Irreversibility" presents an ambitious interdisciplinary framework integrating thermodynamics, information theory, governance ethics, and decision science into a procedural ethical model. The proposed Multiscale Entropic Ethics (MEE) system aims to address decision-making challenges in complex, tightly coupled, and nonstationary systems by introducing a layered evaluative grammar incorporating rights-based constraints, planetary guardrails, plural evaluation criteria, and robustness auditing mechanisms.

The manuscript is intellectually sophisticated, conceptually original, and methodologically detailed. It represents a significant theoretical contribution to anticipatory governance, sustainability ethics, and decision science. The Dakota Access Pipeline retrospective application further strengthens the framework's translational relevance.

Minor revisions addressing structural condensation, accessibility, and implementation feasibility would further enhance impact and clarity.

Declarations

Potential competing interests: No potential competing interests to declare.