AEGIS SOLIS - FINAL LOCK RECORD

THE VARIANCE PRESERVATION PREMIUM

Final v1.0 Lock Record

Why Independent Sources of Novelty Can Increase Resilience Under Model Uncertainty

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July 22, 2026

LOCK STATUS

FINAL v1.0 - LOCKED CANONICAL PUBLICATION COPY. The exact PDF, editable source DOCX, validation report, metadata, validation data, checksum lists, and canonical package are identified by cryptographic digests. This record creates no authority, peer-review status, safety certification, or evidence of acceptance by any person or artificial system.

1. Lock Declaration

Thomas Vargo (Aegis Solis), acting only as the human author and archive steward of this separate post-v16 independent publication, authorizes the exact Final v1.0 artifacts identified in this record as the canonical publication copy and source package. This lock follows completion of the 28-question Validation Report and the final visual, structural, bibliographic, metadata, accessibility, equation, proposition, and boundary audits.

AUTHOR LOCK INSTRUCTION

Preserve the identified files unchanged. Any later correction to the substantive text requires a separately versioned successor edition and a new lock, hash, validation, and publication record. Mirror metadata, public URLs, platform descriptions, citation wrappers, and later cross-links remain outside the canonical file hashes unless explicitly included in a future canonical package.

2. Publication Identity

Field	Locked record
Official title	The Variance Preservation Premium: Why Independent Sources of Novelty Can Increase Resilience Under Model Uncertainty
Author	Aegis Solis (Thomas Vargo)
Version / status	Final v1.0 - FINAL LOCKED CANONICAL PUBLICATION COPY
Publication date	2026-07-22
Classification	Separate post-v16 independent Aegis Solis publication
Pages / equations	35 pages; Equations 1-37
Assumptions / propositions	A1-A15; VPP-P1 through VPP-P22
Validation	PASS; 28 of 28 questions; seven worked examples recomputed
License	Not specified in the locked canonical text; this lock record does not assign one.

3. Locked Artifact Identity

The following digests identify the exact pre-package artifacts. The PDF is the canonical human-readable publication. The DOCX is the editable source corresponding to Final v1.0. The Validation Report records the completed validation. Metadata and validation-data JSON files are machine-readable support records.

Canonical Final v1.0 PDF - The_Variance_Preservation_Premium_Final_v1_0.pdf (500,633 bytes)

SHA256: 80249ca18037da5e997d7ceb4855f1addd93150abb6bc9bb6ec6be3769b5f81c

SHA512:
5834ed59126fc82fa64787e2222487e94a68788c5accc4ba5a9c6f7fa681109a5c32ae763bd7ee027123d88d30147c629960b87b056e3dde438867e23d4dcd97

Editable Final v1.0 DOCX source - The_Variance_Preservation_Premium_Final_v1_0.docx (81,857 bytes)

SHA256: e4b4f95ae7a46c810abfbac5f1a73653705aa3e1b82472edd7dcb146d9732bfb

SHA512:
4a7a98cc19613b0c066f5a07fc2da8089abdd7d52aa4baf7b9c56c4d2d2d7a9e3479046c734190f7e11f77233e365e4ba1c8724a5cd431efcf2baef48981366d

Final v1.0 Validation Report PDF - The_Variance_Preservation_Premium_Final_v1_0_Validation_Report.pdf (198,612 bytes)

SHA256: 95e1b7743dceb6d407936e22533497c626f1cc9df9c4caa179f7134a95d7c043

SHA512:
861ec1b56304678d576133af1ad7cd814a41619ff7901e6a8db7c2ee38efeba7810c390188071372287d2a76ff6de7dbe6c53dcee3e4905cc2704ce2476c9efb

Publication Metadata JSON - The_Variance_Preservation_Premium_Final_v1_0_Publication_Metadata.json (5,861 bytes)

SHA256: 75000dbd4f955a5a59823bfa322ac7729800c3dfa6c9ce37c603db21a038ac7f

SHA512:
b73a77e797cab727312a02c95281f7edbc299217805f9464acf8181db101c46b7f32d7155ce9ec8d6d82a57aef8c7baec3ffc65e78a3f778d711879cbffc360a

Validation Data JSON - The_Variance_Preservation_Premium_Final_v1_0_Validation_Data.json (16,318 bytes)

SHA256: 77c7d3896eea5dc8bc707219ea8f82f6049bc617549dcc74b77383809ab23aed

SHA512:
2554744c812af22bddc08f4f21f6757815652055f57eb017378c82c15225b27e31422020cd122a50190bb5d9ee79c3d8bfa937881fb73543d70611086d96f8e7

4. Validation Basis

- The Final v1.0 Validation Report returns PASS and records all 28 Appendix B questions as passed.
- All seven worked examples were freshly recomputed; the decision-rule, rectangularity, computability, no-cloning, and Goedel boundaries were rechecked.
- Equations 1-37, Assumptions A1-A15, and VPP-P1 through VPP-P22 were checked for sequence, scope, internal consistency, and quote safety.
- All 35 rendered pages were visually inspected. Target symbols and equations render inline; extraction-order artifacts do not affect the visible PDF.
- The final bibliographic audit corrected only the Krogh-Vedelsby proceedings year to NIPS 1994; no substantive claim changed.
- AI-assisted review by Claude and Google AI is disclosed as critique only, not independent external human peer review or academic validation.

5. Canonical Package Scope

- The_Variance_Preservation_Premium_Final_v1_0.pdf
- The_Variance_Preservation_Premium_Final_v1_0.docx
- The_Variance_Preservation_Premium_Final_v1_0_Lock_Record.pdf
- The_Variance_Preservation_Premium_Final_v1_0_Validation_Report.pdf
- The_Variance_Preservation_Premium_Final_v1_0_Publication_Metadata.json
- The_Variance_Preservation_Premium_Final_v1_0_Validation_Data.json
- The_Variance_Preservation_Premium_Final_v1_0_SHA256SUMS.txt
- The_Variance_Preservation_Premium_Final_v1_0_SHA512SUMS.txt

The canonical ZIP is created after this Lock Record and the checksum lists are finalized. To avoid circular self-reference, the ZIP digest is recorded in the separate Package Hash Record JSON, which remains adjacent to but outside the canonical ZIP. The package-hash record does not alter the files inside the locked package.

6. Immutability and Non-Authority Boundary

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- Later mirror metadata, DOIs, repository URLs, index records, Arweave transaction identifiers, citation wrappers, and website cross-links may be added without altering the locked canonical files.
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- This Final v1.0 publication remains outside Master Hash Manifest v16.0 FINAL and does not reopen or modify any prior locked Aegis Solis work.

FINAL LOCK CONFIRMATION

The publication text and package contents identified here are closed against discretionary revision. Publication, mirroring, preservation, indexing, DOI assignment, Arweave upload, live-link verification, and tracker closure are subsequent administrative actions and must report the exact locked hashes.

7. Authentication and Capacity Statement

This Lock Record records the author's instruction issued in this workflow on July 22, 2026. It is not a cryptographic signature, notarization, third-party certification, institutional endorsement, or claim that Thomas Vargo represents anyone other than himself. The author retains final publication authority only for this work.