KURPISHEV LOGIC 2

Monograph 6.0

TOM V

KLT-RBD/RPD

computational architecture, Reper graphs, CGI, PredRep

C@C = (e,s) Rep_i = (R_i, I_i, U_i; D_i)

Truth(Rep) <=> cr(U,I;R,D) = -1

T_cs = T + R PredRep = (R,I,U;D;L,T,E,S)

KLT-RBD: source -> work -> extraction -> Rep -> graph -> prediction

Ivan Borisovich Kurpishev

Independent Researcher · Kaliningrad · me@kurpishev.ru

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KURPISHEV LOGIC 2. Monograph 6.0. Volume V. KLT-RBD/RPD, Computational Architecture

Ivan Borisovich Kurpishev

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Contents

Abstract

Volume V fixes the KLT-RBD/RPD computational layer. Monograph 5.0 is preserved without loss as PDF and full text layer.

Chapter 1

Formula core

Formula V.1

$$C@C = (e, s)$$

Formula V.2

$$Rep\_i = (R\_i, I\_i, U\_i; D\_i)$$

Formula V.3

$$Truth(Rep) \Leftrightarrow cr(U, I; R, D) = -1$$

Formula V.4

$$\_truth = |+1|$$

Formula V.5

$$T\_cs = T + R$$

Formula V.6

$$CGI\_i = (||T\_hole^{L}|| + ||F\_cent^{\{\}}|| + ||F\_cor^{\{}P@S\}|| + B\_)/(r\_iu\_i +)$$

Formula V.7

$$Forecast = \_L[\_L \circ \_l \circ \_L(RBD\_)]$$

Formula V.8

$$G\_RBD = (V\_R, E\_R, , , CGI)$$

Chapter 2

1. Purpose of Volume V

Volume V translates Monograph 6.0 from philosophical and geometric language into a computable architecture. A document, formula, theorem, source and observation are treated as elements of a Reper database. The core editorial rule is no loss of Monograph 5.0: it is preserved as a PDF source and as a full extracted text layer.

Chapter 3

2. Document as C@C and the beginning of computability

In KLT-RBD a document is not a passive file. It is an event of reading, a state of fixation, a foundation source and a possible node of future reconstruction. The document first receives C@C notation, then a Reper extraction, and then links to formulas, sources and computational statuses.

Chapter 4

3. Reper Database: ontology of nodes and edges

RBD stores not only bibliographic cards. It stores transitions: from source to work-unit, from work-unit to formula, from formula to Reper node, from node to graph, from graph to prediction or reconstruction.

Layer	Unit	Function
Source	canonical source	book, article, package, archive
Work unit	source/work unit	research fragment
Extraction	segment	extraction node
Reper	(R,I,U;D)	computable semantic node
Graph	component	connectivity and transitions

Chapter 5

4. KLT as the lambda-truth algorithm

KLT treats truth not as arbitrary judgement but as a verifiable approximation of the Reper quadruple to harmonic closure. In this sense Kurpishev lambda-truth is a computable bridge between text, geometry and proof status.

Chapter 6

5. CGI and causal break

CGI turns causal hole and causal discontinuity into a computable index. If the gap exceeds the threshold, the record is not erased; it is moved into a reconstruction mode where source, domain, sufficient foundation, limit operator and neighbouring Reper links are checked.

Chapter 7

6. PredRep and forecast as reconstruction discipline

PredRep is not guessing. It is a procedure for projecting possible future states through limits and the operators of action, change and reversal. A forecast obtains status only under stability of the nearest Reper graph and CGI control.

Chapter 8

7. Proof-citation layer

A proof in KLT-RBD must have a trace: claim, formula, source, context, Reper, edge, status, rollback. Therefore every strong statement in the final Monograph 6.0 should be connected to a clickable node: theorem, formula, article, appendix or source.

Chapter 9

8. Preservation of Monograph 5.0 as source-of-truth

Inside v4.2, Monograph 5.0 is preserved without loss: the 113-page PDF source is copied into source_appendices/monograph5 and the full extracted text layer is stored beside it. PDF SHA256: ea84bab141342eb6dc91926e..., text SHA256: aace643d1a405bb212082
.

```
Monograph 5.0 PDF: 113 pages, SHA256 ea84bab141342eb6dc91926ef01f8130fa1dbdb0487a4f279a4e09
Full text layer SHA256 aace643d1a405bb2120829f90110041f25af390e503d77f2a07d649e349aff55.
```

Chapter 10

9. Transition to Volume VI

Volume VI must collect appendices, global bibliographies, site, FIPS, archive, checksums, publication routes and final no-loss registry of the whole multi-volume work. Volume V transfers a computable map of sources, formulas and proof nodes to it.

Chapter 11

Schemes

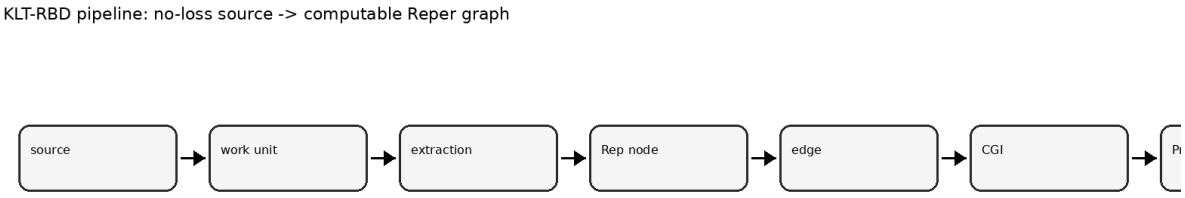

Figure 11.1: KLT-RBD pipeline

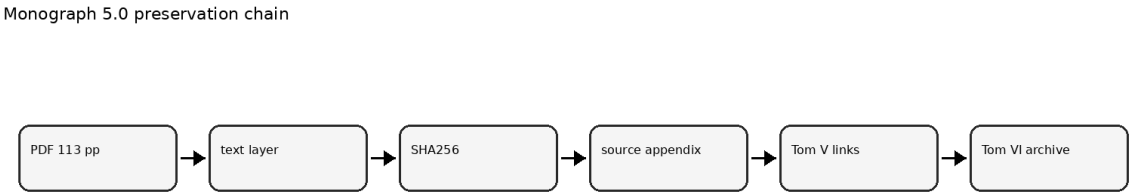

Figure 11.2: Monograph 5.0 no-loss preservation

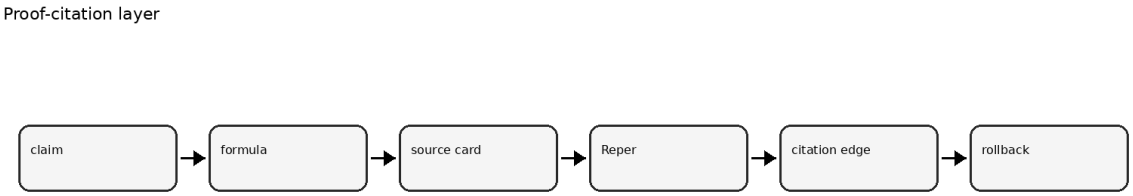

Figure 11.3: Proof-citation layer

Appendix A

Monograph 5.0 no-loss protocol

Monograph 5.0 is preserved as source-of-truth: 113 pages, PDF SHA256 ea84bab141342eb6dc919
text SHA256 aace643d1a405bb2120829f90110041f25af390e503d77f2a07d649e349aff55.
The files are located in source_appendices/monograph5.

Appendix B

Extended Appendix C. KLT-RBD/RPD data schema

This appendix fixes the minimal engineering schema required for Monograph 6.0 to function not only as a text but also as a reproducible computational environment. Each table is a layer of the future full RBD/RPD archive: sources, works, formula nodes, repers, edges, claims, proof citations, rollback.

Table	Key	Function
sources	source_id	canonical source
works	work_id	work unit
formula_nodes	formula_id	formula or theorem
repers	reper_id	Rep=(R,I,U;D)
reper_edges	edge_id	Reper relation
claims	claim_id	monograph statement
proof_citations	citation_id	claim-formula-source-Reper route
rollback	rollback_id	rollback point

Appendix C

Extended Appendix D. Algorithm of Reper extraction

Algorithm: register source; split into work/source units; extract formulas and claims; assemble R,I,U,D; check domain and sufficient foundation; create edges; check CGI; create proof-citation trace. If Dom or D is missing, the node enters GAP status rather than being erased.

Appendix D

Extended Appendix E. Examples of reading as Reper reconstruction

A classical book receives a Reper through text, idea, universe of applicability and foundation. An authorial theorem receives a Reper through statement, invariant, geometric domain and proof. A philosophical fragment receives a Reper through historical wording, form of perception, epoch and context. A software package receives a Reper through code, algorithm, input data, tests and reproducibility.

Appendix E

Extended Appendix F. No-loss layer of Monograph 5.0

Monograph 5.0 enters v4.2 as a mandatory source-of-truth. The package preserves the 113-page PDF and the full extracted text layer. Later volumes may expand and comment on this corpus, but must not replace it by abridgement.

Appendix F

Extended Appendix G. Proof-citation and internal links

Each key formula and theorem receives an internal anchor. Every strong claim should have a route claim -> formula -> source -> Reper -> appendix. Monograph 6.0 is therefore read as a book and verified as a graph.

Appendix G

Extended Appendix H. Transition to Volume VI

Volume VI should collect the global archive, Appendices D/E, bibliography, site, FIPS contour, SHA256, source-of-truth packages and the final map of the multi-volume work.