Research on a Descriptive Framework for Research Design Fingerprints Based on Scientific Literature

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Abstract

This paper proposes the concept of 'research design fingerprint' for describing the core knowledge in scientific literature. Through a comprehensive investigation and analysis of related standardized description frameworks for scientific literature, it creates a 'Research Design Fingerprint Description Framework Based on Scientific Literature' to enhance the machine computational executability, knowledge granularity, knowledge associativity, and structural extensibility of scientific literature, as well as the visualizability of research design ideas, thereby providing researchers with new approaches and methods for rapidly discovering fingerprints such as research design methods and research design tools.

Full Text

Preamble

The provided text contains extensive encoding errors and corrupted characters that prevent meaningful translation. The content appears to be heavily garbled with CID font references, symbols, and fragmented placeholders, lacking recoverable Chinese prose. Only LaTeX math markers (MATH_*) are preserved in their original positions, but they are embedded within corrupted data streams without discernible context. No translatable academic content can be extracted from this section.

Note: Figure translations are in progress. See original paper for figures.