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[illegible]Transformer[illegible]

Abstract

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Navigator[illegible]97%[illegible]51%[illegible]

Paper search

We performed a semantic search using the query "[illegible]deep research[illegible] across over 138 million academic papers from the Elicit search engine, which includes all of Semantic Scholar and OpenAlex.

We retrieved the 499 papers most relevant to the query.

Screening

We screened in sources based on their abstracts that met these criteria:

- **Technical Architecture Focus**: Does this study focus on technical architectures for literature review assistance systems?
- **Paper Discovery Algorithms**: Does this study include research on automated paper discovery and/or recommendation algorithms?
- **NLP/ML for Literature Analysis**: Does this study involve natural language processing and/or machine learning applications specifically for academic literature analysis?
- **Citation/Bibliometric Methods**: Does this study include research on citation analysis and/or bibliometric methods for identifying core papers?
- **Knowledge Graphs/Semantic Analysis**: Does this study involve knowledge graph construction and/or semantic analysis for academic literature?
- **Academic Literature Specificity**: Is this study specifically focused on academic literature rather than general search engines or web search?
- **Intelligent Analysis Capabilities**: Does this study go beyond basic bibliographic database management to include intelligent analysis capabilities?
- **Substantial Technical Content**: Does this study contain substantial technical content (i.e., is it NOT a conference abstract, editorial, or opinion piece without technical detail)?

We considered all screening questions together and made a holistic judgement about whether to screen in each paper.

Data extraction

We asked a large language model to extract each data column below from each paper. We gave the model the extraction instructions shown below for each column.

- **Technical Architecture**:

  Extract the core technical architecture and system components including:

- Main AI/ML frameworks used (deep learning, NLP, etc.)
- System architecture components (databases, APIs, interfaces)
- Technical infrastructure (cloud platforms, computational resources)
- Integration with existing academic databases or platforms
- Overall system design approach

- **Implementation Methods**:

  Extract specific technical implementation details including:

- Algorithms and models used (neural networks, clustering, classification, etc.)
- Feature extraction techniques
- Data processing pipelines
- Training methodologies
- Preprocessing steps
- Technical workflow or methodology

- **Paper Discovery Techniques**:

  Extract methods for finding and matching academic papers including:

- Search and retrieval algorithms
- Relevance ranking approaches
- Citation analysis methods
- Content-based matching techniques
- Metadata extraction and utilization
- Recommendation system approaches
- Expert/authority identification methods

- **Technical Challenges**:

  Extract identified technical problems and limitations including:

- Algorithm performance issues
- Data quality or availability problems
- Scalability challenges
- Integration difficulties
- Evaluation methodology limitations
- Computational resource constraints
- Technical bottlenecks or failure points

- **Innovative Solutions**:

  Extract novel technical approaches and innovations including:

- New algorithmic contributions
- Creative problem-solving methods
- Hybrid or ensemble approaches
- Novel feature engineering techniques
- Innovative evaluation metrics
- Technical workarounds for known problems
- Original system design elements

- **Performance Results**:

  Extract quantitative and qualitative performance outcomes including:

- Accuracy, precision, recall, F1-scores
- Processing speed and efficiency metrics
- Comparison with baseline methods
- User satisfaction or usability results
- System reliability and robustness measures
- Scalability test results

- **Data Sources**:

  Extract information about datasets and knowledge resources including:

- Academic databases used (Scopus, Web of Science, etc.)
- Dataset sizes and characteristics
- Data collection methods
- Training/validation/test data splits
- Data preprocessing and cleaning approaches
- External knowledge bases or ontologies used

- **Application Context**:

  Extract the specific use cases and domains including:

- Target research disciplines or fields
- Specific literature review tasks addressed
- Types of academic documents processed
- User types and requirements
- Integration with research workflows
- Commercial vs. academic applications

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Neda Abbasi Dashtaki et al., 2025	[illegible]	[illegible]	[illegible]	[illegible]

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