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He has undertaken a number of national/ministerial scientific research projects, mainly in research projects: Research on domain subject research problems and clue discovery, field subject development vein excavation and application demonstration, academic cognition and argument discovery services in the field of consultation and evaluation of the Ministry of Science, field research papers in numerical object mining.

From the perspective of semantic understanding, automatic analysis of scientific and technological literature and thematic intelligence in the in-depth mining field are difficult issues in the process of intelligence analysis. Focusing on this issue, and provides new ideas, new methods and supporting tools for the intelligent handling of literature intelligence.

The main research includes text semantic understanding and intelligence analysis, domain knowledge object recognition, domain knowledge map construction, text automatic generation and so on.

Representative Academic Papers: natural language spatial concept extraction based on spatial semantic role; research on theory and method of topic detection in network science and technology information (research report); Recognizing Core Topic Sentences with Improved TextRank Algorithm Based on WMD Semantic Similarity; Dpaper: An Authoring Tool for Extractable Digital.

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