

Research on the Semantic Organization of Biographical Contents of Historical Figures: A Study on Chinese Historical Figures

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This research investigates the semantic organization of the biographical content of historical figures, following a logical framework of "knowledge representation–knowledge extraction–knowledge service." The study focuses on processing and associating data from multi-source heterogeneous ancient book digital resources. Utilizing technologies such as the semantic web, machine learning, and natural language processing (NLP), it aims to represent, extract, and aggregate biographical content to construct a knowledge graph of relationships and attributes related to historical figures. This graph enables both micro and macro analyses of historical figures through structured semantic data, supporting literature and history researchers with intelligent, efficient knowledge services. The empirical phase uses Chinese historical figures and their biographical texts as a corpus to validate the research hypotheses and methodologies. Key objectives include:

- a. Developing a semantic model for biographical content in ancient texts.
- b. Exploring prompt learning and machine learning for knowledge extraction from ancient texts.
- c. Investigating research methods and theories related to historical figures.
- d. Conducting multi-dimensional semantic applications based on biographical semantic data.