



Digitalization and Knowledgeization of Chinese Cultural Heritage from the Perspective of Digital Humanities: the case of Confucian Analects and Yongle Encyclopedia

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Abstract:

The rapid advancement of digital humanities has led to a transformation in traditional research paradigms. The digitization and knowledgeization of cultural heritage have become popular topics in the field of culture heritage. Digitization involves converting cultural heritage into digital forms for better preservation and dissemination, while knowledgeization involves transforming these digitized cultural heritage materials into knowledge graphs for improved understanding and utilization. Through digitization and knowledgeization, we can break the constraints of time and space, allowing more people to easily access and learn about cultural heritage.

From the perspective of digital humanities, this presentation will use two categories of cultural heritage, namely, Chinese classics (such as the *Confucian Analects* and the *Yongle Encyclopedia*) and artifacts (such as ceramics), as case studies to elaborate on how technologies like OCR (Optical Character Recognition), text analysis, named entity recognition, and relation extraction can be applied to the digitization and knowledgeization of Chinese ancient books. Furthermore, it will discuss the development of cross-lingual, multimodal knowledge repositories based on the Ontology and Terminology.





