

# Structures and Evolution of Digital Humanities: An Empirical Research based on Correspondence Analysis and Co-word Analysis

Xiaoguang Wang\* and Mitsuyuki INABA\*\*

## Abstract

Digital humanities is a new interdisciplinary study concerned with the intersection of computing and traditional arts and humanities disciplines. For understanding the structure and evolution of digital humanities, we performed correspondence analysis and co-word analysis of research articles which some of the leading journals and proceedings of this study published for the last five years. One of results shows that disciplinary representative nomenclature has been shifting from humanities computing to digital humanities during the time period. Another result indicates that the frequency of the keyword “digital humanities” has increased continually, while its degree centrality has been low at all times. This derives from the fact that the term tends to be used with emerging topics in the research domain.

**Keywords:** digital humanities, humanities computing, co-word analysis, correspondence analysis, structure of science

---

\* Lecturer, School of Information Management, Wuhan University, E-mail: whu\_wxg@126.com; \*\*Professor, Digital Humanities Center for Japanese Arts and Cultures, Ritsumeikan University, E-mail: inabam@sps.ritsumeikai.ac.jp (Correspondence should be addressed to Mitsuyuki INABA, Digital Humanities Center for Japanese Arts and Cultures, Ritsumeikan University, Kyoto 603-8577, Japan)

# 數位人文研究的結構與演化—— 以對應分析與共字分析為基礎之實證研究

王曉光\*

Mitsuyuki INABA\*\*

## 摘要

數位人文研究乃位於電腦資訊科技與傳統藝術人文學科交岔路口之新興跨領域研究。為了解數位人文研究的結構與演化，我們對近 5 年來在重要期刊、與研討會論文集集中所發表之相關論文進行了對應分析 (correspondence analysis) 與共字分析 (co-word analysis)。其中一項成果顯示，領域代表性命名已漸漸由人文電算 (humanities computing) 轉為數位人文研究 (digital humanities)。另一成果則顯示關鍵詞「數位人文」出現之頻率持續增加，雖然程度中心性 (degree centrality) 仍然過低，這是由於此一名詞往往與研究領域中的新興議題一起使用。

關鍵字：數位人文研究、人文電算、共字分析、對應分析、科學的結構

---

\* 武漢大學信息管理學院講師，E-mail: whu\_wxg@126.com；\*\*日本京都立命館大學日本文化與藝術之數位人文研究中心教授，E-mail: inabam@sps.ritsumei.ac.jp