

---

Faculty of Mathematical Sciences

University of Twente

University for Technical and Social Sciences

---

---

P.O. Box 217

7500 AE Enschede

The Netherlands

Phone: +31-53-4893400

Fax: +31-53-4893114

Email: memo@math.utwente.nl

---

MEMORANDUM NO. 1516

Knowledge graph analysis of some particular  
problems in the semantics of Chinese

C. HOEDE, X. LI,<sup>1</sup> X. LIU<sup>1</sup> AND L. ZHANG<sup>2</sup>

FEBRUARY 2000

ISSN 0169-2690

---

<sup>1</sup>Department of Applied Mathematics, Northwestern Polytechnical University, Xi'an, Shaanxi 710072, P.R. China

<sup>2</sup>Department of Computer Science, Northwestern University, Xi'an, Shaanxi 710069, P.R. China

## Memorandum 1516

As a result of non-viewable and non-printable Chinese characters in the source, there is no postscript or pdf conversion of the source file available.

For a printed copy, please mail to MEMO@MATH.UTWENTE.NL .

*Knowledge graph analysis of some particular problems in the semantics of Chinese*

C. Hoede, X. Li, X. Liu & L. Zhang

**Abstract:**

Knowledge graph theory aims at giving an analysis of language in general. The theory is tested on some particular problems in the semantics of Chinese. These problems concern word formation and the use of verbs. It is attempted to understand how words are formed and how the verb is used in Chinese sentences.

**Keywords:** Knowledge graph, word graph, verb use, word formation, modal particles, Chinese language

**Mathematics Subject Classification:** 05C99, 68F99