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# Chinese textual entailment recognition using statistical and lexical semantic features

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**Abstract:** In order to further analyze and understand the text, textual entailment recognition should be paid more attention to, especially the ones in Chinese text pair. The statistical and lexical semantic features, associated with Chinese text pair, are extracted after the Chinese text preprocessing, such as Chinese word segmentation and stop words removal. The textual entailment recognition is actually one classification task and the classification model based on support vector machine can be designed and implemented using the extracted statistical and lexical semantic features. The final experiment results demonstrate the effective and feasibility of the classification model using the textual statistical and semantic features.

**Key words:** textual entailment; statistical feature; lexical semantic feature; support vector machine; contradiction

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=bZYfYbW ] b H9 h

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: : cfkUfX

A7

HZ <

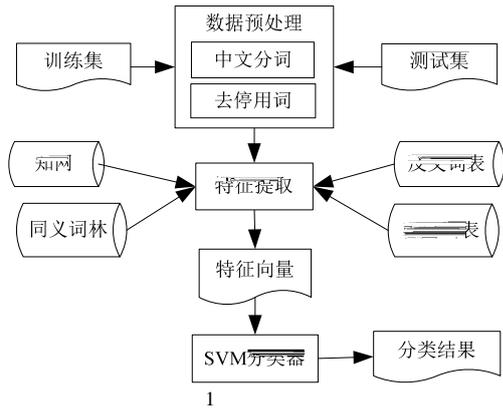
F=H9

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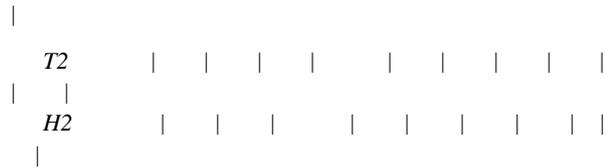
1

SVM

1



ICTCLAS<sup>1</sup> 1 T2 H2



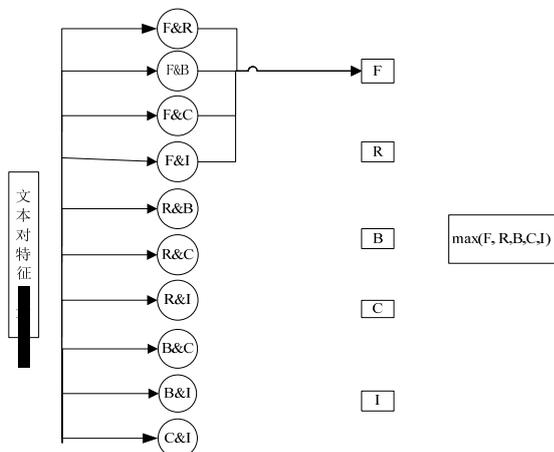
[8.9]

SVM

RITE BC

RITE MC

2



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**t h**  $T H n$

TF\*IDF

6

6

$$\text{Sim}_{LCS}(T, H) = \frac{\text{len}(\text{LCS}(T, H))}{\min(\text{length}(T), \text{length}(H))} \quad 6$$

LCS(T, H)  $T H$

2.2

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