Interactive Semantic Analysis of English Paragraphs

- Yorick Wilks -

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INTERACTIVE SEMANTIC ANALYSIS OF ENGLISH PARAGRAPHS

Yorick Wilks
1353, N. Fuller
Hollywood
California 90046
U.S.A.

Abstract.

This paper describes the use of an on-line system to do word-sense ambiguity resolution and content analysis of English text paragraphs, using a system of semantic analysis programmed in Q32 LISP 1.5. The system of semantic analysis comprised dictionary codings for the text words, coded forms of permitted message, and rules producing message forms in combination on the basis of a criterion of semantic closeness. All these can be expressed within a single system of rules of phrase-structure form. In certain circumstances the system is able to enlarge its own dictionary in a real-time mode on the basis of information gained from the actual texts analysed. An interpretation of the system in terms of "meaningfulness" is suggested.

Key words and phrases: semantics, language analysis, interpretation, template. CR Categories: 3.36, 3.62, 3.63.

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