Generating Natural Language Descriptions With Integrated Text and Examples

Vibhu O. Mittal

ROUTLEDGE

Generating Natural Language Descriptions With Integrated Text And Examples

Canadian Society for Computational Studies of Intelligence. Conference,Janice Glasgow,Robert F. Hadley

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Generating Natural Language Descriptions with Integrated Text and Examples University of Southern California. Information Sciences Institute,Vibhu O. Mittal,1993 Abstract Good documentation is critical for user acceptance of any system Advances in areas such as knowledge based systems text generation and multi media have now made it possible to investigate the automatic generation of documentation from the underlying knowledge bases Empirical studies have shown that examples can greatly increase the effectiveness of system documentation However studies also show that badly integrated text and examples can be actually detrimental compared to using either text or examples alone It is thus clear that in order to provide useful documentation automatically a system must be capable of providing well integrated examples to illustrate its points This thesis builds upon previous work in natural language generation example generation cognitive and educational psychology to identify relevant issues in the generation of coherent descriptions that integrate text and examples We identify how text and examples co constrain each other and show that a system must consider example generation as an integral part of the generation process We describe an implementation and present an initial evaluation of the system s effectiveness **Generating Natural Language Descriptions with Integrated Text and Examples** Vibhu Mittal,1993 Abstract Good documentation is critical for user acceptance of any system Advances in areas such as knowledge based systems text generation and multi media have now made it possible to investigate the automatic generation of documentation from the underlying knowledge bases Empirical studies have shown that examples can greatly increase the effectiveness of system documentation However studies also show that badly integrated text and examples can be actually detrimental compared to using either text or examples alone It is thus clear that in order to provide useful documentation automatically a system must be capable of providing well integrated examples to illustrate its points This thesis builds upon previous work in natural language generation example generation cognitive and educational psychology to identify relevant issues in the generation of coherent descriptions that integrate text and examples We identify how text and examples co constrain each other and show that a system must consider example generation as an integral part of the generation process We describe an implementation and present an initial evaluation of the system s effectiveness **Computational Linguistics** ,1997

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