

Proceedings of the Fifth International Workshop on Natural Language Generation

3-6 June 1990

Linden Hall Conference Center
Dawson, Pennsylvania

Organized by:

Kathleen R. McKeown, Columbia University
Johanna D. Moore, University of Pittsburgh
Sergei Nirenburg, Carnegie Mellon University

Financial Sponsors:

National Science Foundation
American Association for Artificial Intelligence
Association for Computing Machinery, Special Interest
Group on Artificial Intelligence

Contents

Kathleen F. McCoy, K. Vijay-Shanker, Gijoo Yang, <i>Using Tree Adjoining Grammars in the Systemic Framework</i>	1
Stuart M. Shieber and Yves Schabes, <i>Generation and Synchronous Tree-Adjoining Grammars</i>	9
Nigel Ward, <i>A Connectionist Treatment of Grammar for Generation</i>	15
Ehud Reiter, <i>A New Model for Lexical Choice for Open-Class Words</i>	23
Leo Wanner and John A. Bateman, <i>Lexical Cooccurrence Relations in Text Generation</i>	31
Susanna Cumming, <i>Natural Discourse Hypothesis Engine: A Tool for Generating, Testing and Refining Hypotheses Concerning the Contextual Basis for Linguistic Choice</i>	39
Jim Barnett and Inderjeet Mani, <i>Using Bidirectional Semantic Rules for Generation</i>	47
John A. Bateman, <i>Upper Modeling: A Level of Semantics for Natural Language Processing</i>	54
Marie W. Meteer, <i>Abstract Linguistic Resources for Text Planning</i>	62
Mark T. Maybury, <i>Using Discourse Focus, Temporal Focus, and Spatial Focus to Plan Narrative Text</i>	70
T. Pattabhiraman and Nick Cercone, <i>Selection: Saliency, Relevance and the Coupling between Domain-Level Tasks and Text Planning</i>	79
Owen Rambow, <i>Domain Communication Knowledge</i>	87
Ursula Wolz, <i>An Object Oriented Approach to Content Planning for Text Generation</i>	95
Robert A. Granville, <i>The Role of Underlying Structure in Text Generation</i>	105
David J. Mooney, Sandra Carberry, Kathleen F. McCoy, <i>The Basic Block Model of Extended Explanations</i>	112
Penelopen Sibun, <i>The Local Organization of Text</i>	120
Eduard H. Hovy, <i>Parsimonious and Profligate Approaches to the Question of Discourse Structure Relations</i>	128

Daniel D. Suthers, <i>Reassessing Rhetorical Abstractions and Planning Mechanisms</i>	137
Peter van Beek and Robin Cohen, <i>Resolving Plan Ambiguity for Response Generation</i>	144
Christine Defrise and Sergei Nirenburg, <i>Aspects of Text Meaning: Speaker Attitudes in Language Generation</i>	150
Ingrid Zukerman, <i>Generating Peripheral Rhetorical Devices by Consulting a User Model</i>	156
Robin P. Fawcett, <i>The Computer Generation of Speech with Discoursally and Semantically Motivated Intonation</i>	164
David E. Johnson and Hideo Watanabe, <i>Relational-Grammar-Based Generation in the JETS Japanese-English Machine Translation System</i>	174
Terry Patten and Daniel S. Stoops, <i>Real-Time Generation from Systemic Grammars</i>	183
Notes: Norman Badler, Mark Steedman, Bonnie Lynn Webber, <i>Narrated Animation: A Case for Generation</i>	189