Contents

Preface i

Janusz S. Bień
Towards Displacement Model of Memory 1

Toni Bollinger / Ulrich Hedtstück / Claus-Rainer Rollinger / Rudi Studer
Text Understanding in LILOG 21

Ralph Grishman
Domain Modeling for Language Analysis 41

Walter von Hahn
Analysis and Generation of Discourse 59

Eva Hajičová
Automatic Compilation of a Knowledge Base 71

Yasunari Harada
On Describing Natural Languages in Unification Environments 83

Robert R. Hoffman
What Is a Hill? Computing the Meanings of Topographic and Physiographic Terms 97

Jürgen Krause
The Concepts of Sublanguage and Language Register in Natural Language Processing 129

Jürgen Kunze
Semantic Representation as a Link between Parsing and Knowledge Representation 159

Ira Monarch / Sergei Nirenburg
ONTOS: An Ontology-Based Interactive Knowledge Acquisition System 183

Greg Myers / Tony Hartley
Modeling Lexical Cohesion and Focus in Written Texts: Popular Science Articles and the Naive Reader 201

James Pustejovsky
Semantic Function and Lexical Decomposition 243

Ulrich Reimer / Udo Hahn
An Overview of the Text Understanding System TOPIC 305

Dietmar Rösner
Text Generation in the Framework of the SEMSYN Project: Current Status, Future Prospects 321

Annely Rothkegel
Knowledge Representation and Text Processing 331

Petr Sgall
Meaning, Sense, and Contradiction 353

Jörg H. Siekmann
Unification Theory 365

Brian M. Slator / Yorick A. Wilks
Towards Semantic Structures from Dictionary Entries 419

Harold Somers
Subcategorization Frames and Predicate Types 461

Gerhard Strube
Empirical Constraints for Modeling Human Language Processing: On-Line Analysis of Temporal Sentences 489

Masaru Tomita
Parser Factory: The Universal Parser Compiler and Its Application to a Knowledge-Based Speech Translation System 515

Index 553

Authors and Editors 557