

# Contents to Volume 9

*Number 1* *January–March, 1984*

Editorial ..... ii  
*David L. Waltz, Executive Editor*

SPECIAL ISSUE:  
CONNECTIONIST MODELS  
AND THEIR APPLICATIONS

Introduction ..... 1  
*Jerome A. Feldman, Guest Editor*

Positive Feedback in Hierarchical Connectionist Models:  
Applications to Language Production ..... 3  
*Gary S. Dell*

Computing with Connections in Visual Recognition of Origami Objects ..... 25  
*Daniel Sabbah*

Massively Parallel Parsing: A Strongly Interactive Model of  
Natural Language Interpretation ..... 51  
*David L. Waltz and Jordan B. Pollack*

Feature Discovery by Competitive Learning ..... 75  
*David E. Rumelhart and David Zipser*

Putting Knowledge in its Place: A Scheme for Programming Parallel Processing  
Structures on the Fly ..... 113  
*James L. McClelland*

A Learning Algorithm for Boltzmann Machines ..... 147  
*David H. Ackley, Geoffrey E. Hinton, and Terrence J. Sejnowski*

*Number 2* *April–June, 1985*

Cognitive Science News ..... ii

An Overview of the KL-ONE Knowledge Representation System ..... 171  
*Ronald J. Brachman and James G. Schmolze*

Learning to Search: From Weak Methods to Domain-Specific Heuristics ..... 217  
*Pat Langley*

Automatic and Strategic Aspects of Knowledge Retrieval ..... 261  
*William H. Walker and Walter Kintsch*

*Number 3*

*July–September, 1985*

Categorizing Numeric Information for Generalization . . . . .	285
<i>Michael Lebowitz</i>	
Languages and Designs for Probability Judgment . . . . .	309
<i>Glenn Shafer and Amos Tversky</i>	
Semantics and Pragmatics of Locative Expressions . . . . .	341
<i>Annette Herskovits</i>	
The Cognition Structure of Social Categories . . . . .	379
<i>Kathleen Dahlgren</i>	

*Number 4*

*October–December, 1985*

Cognitive Science News . . . . .	ii
<b>Obituary:</b>	
Rolando Lara, Elena Sandoval, and Willis Borchers . . . . .	399
<i>Michael A. Arbib</i>	
The More Things Change . . . : Metamorphoses and Conceptual Structure . . . . .	403
<i>Michael H. Kelly and Frank C. Keil</i>	
Comparing Natural and Abstract Categories: A Case Study from Computer Science . . . . .	417
<i>Beth Adelson</i>	
The Development of Children’s Problem Solving in a Gears Task: A Problem Space Perspective . . . . .	431
<i>Kathleen E. Metz</i>	
Realism, Instrumentalism, and the Intentional Stance . . . . .	473
<i>William Bechtel</i>	
Author Index to Volume 9 . . . . .	499
Contents Index to Volume 9 . . . . .	500
Acknowledgement: Guest Reviewers . . . . .	502