CONTENTS

Contributors *ix*

1. Cracking the Problem of Inert Knowledge: Portable Strategies to Access Distant Analogs From Memory **1**

Máximo Trench and Ricardo A. Minervino

1. Introduction 2
2. Diagnosing Our Ability to Retrieve Analogous Situations 4
3. Overcoming Human Limitations for Retrieving Distant Analogs 21
4. Conclusions 35

References 37

2. The Complexities of Learning Categories Through Comparisons **43**

Erin Jones Higgins

1. Introduction 44
2. Analogical Reasoning as a Lens for Understanding the Comparison Benefits 46
3. Effects of Item Order on Learning 53
4. Integrating the Analogical Reasoning and Item Order Research Into a Coherent Framework 56
5. Testing the Highlighter Hypothesis Through a Series of Studies 58
6. Implications and Conclusions 70

Acknowledgments 75

References 75

3. Progress in Modeling Through Distributed Collaboration: Concepts, Tools and Category-Learning Examples **79**

Andy J. Wills, Garret O'Connell, Charlotte E.R. Edmunds and Angus B. Inkster

1. Introduction 80
2. Concepts 81
3. Introduction to `catlearn` 92
4. Examples 94
5. Overview and Conclusion 110

Acknowledgments 112

References 112

4. **Replicability, Response Bias, and Judgments, Oh My! A New Checklist for Evaluating the Perceptual Nature of Action-Specific Effects** 117

Jessica K. Witt

1. Introduction 118
2. Brief Overview of Action-Specific Methods and Effects 119
3. Checklist Overview and Caveats 122
4. Replicability and Other Statistical Issues 124
5. Response Bias 128
6. Judgment-Based Effects 141
7. Moving Forward: Future Directions for Research 153
8. Conclusion 160

References 160

5. **The Two Faces of Selective Memory Retrieval—Cognitive, Developmental, and Social Processes** 167

Karl-Heinz T. Bäuml, Alp Aslan and Magdalena Abel

1. Selective Memory Retrieval Can Be Detrimental for Other Memories 168
2. Can Selective Memory Retrieval Also Be Beneficial for Other Memories? 173
3. The Two Faces of Selective Memory Retrieval 179
4. Developmental Trajectories of the Two Effects of Selective Retrieval 187
5. The Two Faces of Selective Retrieval in Social Settings 193
6. Conclusions and Future Directions 197
7. Take Home Message 203

References 204

6. **Prospective Memory in Context** 211

Rebekah E. Smith

1. Introduction 212
2. Methodological History 212
3. The Role of Context in Prospective Memory Performance 216
4. Context and Cost to the Ongoing Task 220
5. Initiating Preparatory Attentional Processing: The Role of Transitions 240
6. Conclusions and Avenues for Future Research 242

References 245

7. What Makes Everyday Scientific Reasoning So Challenging? 251

Priti Shah, Audrey Michal, Amira Ibrahim, Rebecca Rhodes and Fernando Rodriguez

1. Introduction 252
2. Defining Quality Evidence Evaluation as Theory-Evidence Coordination 257
3. Heuristic (System 1) Thinking Versus Analytic (System 2) Thinking 267
4. Content and Communication of Evidence 270
5. Individual Differences 276
6. Beyond Heuristic Versus Analytic Thinking: Specific Evidence Evaluation Skills 279
7. Improving Evidence Evaluation 281
8. Concluding Thoughts 286

Acknowledgments 289

References 289

Contents of Previous Volumes 301