

Contents

Introduction	1
Roland Stuckardt	
Part I Background	
Linguistic and Cognitive Evidence About Anaphora	23
Massimo Poesio	
Early Approaches to Anaphora Resolution: Theoretically Inspired and Heuristic-Based	55
Massimo Poesio, Roland Stuckardt, Yannick Versley, and Renata Vieira	
Part II Resources	
Annotated Corpora and Annotation Tools	97
Massimo Poesio, Sameer Pradhan, Marta Recasens, Kepa Rodriguez, and Yannick Versley	
Evaluation Metrics	141
Xiaoqiang Luo and Sameer Pradhan	
Evaluation Campaigns	165
Marta Recasens and Sameer Pradhan	
Preprocessing Technology	209
Olga Uryupina and Roberto Zanoli	
Off-the-Shelf Tools	237
Yannick Versley and Anders Björkelund	
Part III Algorithms	
The Mention-Pair Model	269
Veronique Hoste	

Advanced Machine Learning Models for Coreference Resolution	283
Vincent Ng	
Integer Linear Programming for Coreference Resolution	315
Nick Rizzolo and Dan Roth	
Extracting Anaphoric Agreement Properties from Corpora	345
Shane Bergsma	
Detecting Non-reference and Non-anaphoricity	369
Olga Uryupina, Mijail Kabadjov, and Massimo Poesio	
Using Lexical and Encyclopedic Knowledge	393
Yannick Versley, Massimo Poesio, and Simone Ponzetto	
 Part IV Applications	
Coreference Applications to Summarization	433
Josef Steinberger, Mijail Kabadjov, and Massimo Poesio	
Towards a Procedure Model for Developing Anaphora	
Processing Applications	457
Roland Stuckardt	
 Part V Outlook	
Challenges and Directions of Further Research	487
Massimo Poesio, Roland Stuckardt, and Yannick Versley	
Index	501