

# Contents

Foreword .....	xi
Terminological note.....	xiii
Preface by <i>Martin Kay</i> .....	xv
Contributors.....	xxi
INTRODUCTION	
1. From the Rosetta stone to the information society .....	1
A survey of parallel text processing	
<i>Jean Véronis</i>	
ALIGNMENT METHODOLOGY	
2. Pattern recognition for mapping bitext correspondence.....	25
<i>I. Dan Melamed</i>	
3. Multilingual text alignment .....	49
Aligning three or more versions of a text	
<i>Michel Simard</i>	

4.	A comprehensive bilingual word alignment system.....	69
	Application to disparate languages: Hebrew and English	
	<i>Yaacov Choueka, Ehud S. Conley and Ido Dagan</i>	
5.	A knowledge-lite approach to word alignment .....	97
	<i>Lars Ahrenberg, Mikael Andersson and Magnus Merkel</i>	
6.	From sentences to words and clauses .....	117
	<i>Stelios Piperidis, Harris Papageorgiou and Sotiris Boutsis</i>	
7.	Bracketing and aligning words and constituents in parallel text using Stochastic Inversion Transduction Grammars.....	139
	<i>Dekai Wu</i>	
8.	The translation network.....	169
	A model for a fine-grained description of translations	
	<i>Diana Santos</i>	
9.	Parallel text alignment using crosslingual information retrieval techniques.....	187
	<i>Christian Fluhr, Frédérique Bisson and Faïza Elkateb</i>	
10.	Parallel alignment of structured documents .....	201
	<i>Laurent Romary and Patrice Bonhomme</i>	

## APPLICATIONS

11.	A statistical view on bilingual lexicon extraction .....	219
	From parallel corpora to non-parallel corpora	
	<i>Pascale Fung</i>	
12.	Terminology extraction from parallel technical texts.....	237
	<i>Ingeborg Blank</i>	
13.	Term alignment in use.....	253
	Machine-aided human translation	
	<i>Éric Gaussier, David Hull and Salah Aït-Mokhtar</i>	
14.	Automatic dictionary extraction for cross-language information retrieval.....	275
	<i>Ralf D. Brown, Jaime G. Carbonell and Yiming Yang</i>	

15. Parallel texts in computer-assisted language learning.....	299
<i>John Nerbonne</i>	
RESOURCES AND EVALUATION	
16. Japanese-English aligned bilingual corpora .....	313
<i>Hitoshi Isahara and Masahiko Haruno</i>	
17. Building a parallel corpus of English/Punjabi .....	335
<i>Sukhdave Singh, Tony McEnery and Paul Baker</i>	
18. Sharing of translation memory databases derived from aligned parallel text.....	347
<i>Alan K. Melby</i>	
19. Evaluation of parallel text alignment systems.....	369
The ARCADE project	
<i>Jean Véronis and Philippe Langlais</i>	
Index of terms.....	389
Index of authors.....	395
Index of languages and writing systems.....	401