CONTENTS

	List of figures and tables Acknowledgements	viii ix
1	SOCIOLOGY AND HUMAN-MACHINE DIALOGUE	1
-	Speech understanding systems	2
	Perspectives on human-computer interaction	5
	Sociological perspectives on human-computer interaction	8
	The 'chicken and egg' problem	11
	Overview of the book	12
2	INSPIRATION, OBSERVATION AND THE WIZARD	
	OF OZ	13
	Design by inspiration	15
	Design by observation	19
	Design by simulation	22
	Varieties of spoken WOZ experiments	30
3	THE SURREY WOZ SIMULATION PROCEDURE	36
	The British Airways corpus	36
	The Wizard of Oz simulation corpus	40
	Questionnaire results	45
	Some preliminary analysis from the WOZ corpus	50
4	CONVERSATION ANALYSIS	53
•	Conversation analysis and the turn-by-turn analysis of verbal	
	interaction	54
	Recipient design	59
	Sequences of actions	60
	Language as a vehicle for social action	63
	Consideration analysis and WO7 simulations	64

CONTENTS

5	GETTING STARTED: OPENING SEQUENCES IN THE BA	
	AND WOZ CORPORA	66
	Response tokens in the BA corpus	68
	Hesitation items in the BA corpus	70
	Response tokens and hesitation items in the WOZ corpus	71
	Request formulations in the BA corpus	74
	Request formulations in the WOZ corpus	76
	Sequential considerations	77
	Request formulations are normatively prescribed	81
	Problem work done through request formulations	83
	'Doing' non-problematic requests	89
6	TURN-TAKING, OVERLAPS AND CLOSINGS	93
	The turn-taking system for conversation	93
t	The turn-taking system in the British Airways corpus	97
	Turn-taking in the WOZ corpus	102
	Overlapping talk	106
	Overlap types when the statement of the	108
	Overlap in the WOZ simulation data	112
	Closings ** ** ** ** ** ** ** ** ** ** ** ** **	115
	Closings in calls to the British Airways flight information service	116
	Closings in the WOZ corpus	121
7	SOME GENERAL FEATURES OF THE ORGANISATION	125
	OF REPAIR	125 125
	Analysing 'repair': some conceptual issues Self- and other-initiation and execution of repair	129
	The organisation of repair	130
,	The preference for self-repair	134
	Some sequential properties of repair	137
ų,	Repair and interpersonal relations	139
8	SOME REPAIR STRATEGIES ANALYSED	142
j.	The interpretation and repair of silence	142
,	Repair via alignment	152
	Recycling The Association Control of the Control of	155
9	CONVERSATION ANALYSIS, SIMULATION AND	
	SYSTEM DESIGN	162
	Wizards: implications for simulation studies	162
	Machines: the use of conversation analysis and the design of	
	interactive systems	164
	Humans and their interactions with machines	166

CONTENTS

APPENDIX A: RECOGNISING AND UNDERSTANDING	
SPOKEN LANGUAGE	169
Representing speech	. 170
Speech technology	171
The front end	173
The linguistic processor	176
The dialogue manager	177
Speech synthesis	180
APPENDIX B: SCENARIOS IN THE WOZ SIMULATION	
EXPERIMENT	183
APPENDIX C: TRANSCRIPTION SYMBOLS	
Notes	189
References	197
Index	205