| Record Nr. Autore Titolo | UNINA9910784657003321 MacKenzie I. Scott <1951-> Text entry systems [[electronic resource]] : mobility, accessibility, |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pubbl/distr/stampa | universality / / edited by I. Scott MacKenzie and Kumiko Tanaka-Ishii Amsterdam, : Boston, : Morgan Kaufmann, c2007 |
| ISBN | 1-281-05354-6 9786611053543 0-08-048979-6 |
| Edizione | [1st edition] |
| Descrizione fisica | 1 online resource (343 p.) |
| Collana | The Morgan Kaufmann series in interactive technologies |
| Altri autori (Persone) | Tanaka-IshiiKumiko |
| Disciplina | 004 004 22 |
| Soggetti | Computers Electronic data processing - Data entry Human-computer interaction Natural language processing (Computer science) |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Front Cover; Text Entry Systems: Mobility, Accessibility, Universality; Copyright Page; Contents; Preface: Variety and Universality; Part 1 Foundations; Chapter 1 Historical Overview of Consumer Text Entry Technologies; 1.1 INTRODUCTION; 1.2 TYPEWRITER, 1870's TO 1980's; 1.3 PERSONAL COMPUTER, 1980's TO PRESENT; 1.4 MOBILE PHONES, 1990's TO PRESENT; 1.5 HANDHELD COMPUTERS; 1.6 CONCLUSIONS; 1.7 FURTHER READING; REFERENCES; Chapter 2 Language Models for Text Entry; 2.1 INTRODUCTION; 2.2 BASIC MODEL OF TEXT ENTRY; 2.3 N-GRAM MODELS; 2.4 HIDDEN MARKOV MODEL; 2.5 ADAPTIVE MODELS 2.6 CONCLUDING REMARKS REFERENCES; Chapter 3 Measures of Text Entry Performance; 3.1 INTRODUCTION; 3.2 AGGREGATE MEASURES; 3.3 CHARACTER-LEVEL MEASURES; 3.4 MEASUREMENTS FROM LOG FILES; 3.5 METHOD-SPECIFIC MEASURES; 3.6 DISCUSSION OF MEASURES; 3.7 FURTHER READING; REFERENCES; Chapter 4 Evaluation of Text Entry Techniques; 4.1 INTRODUCTION; 4.2 COMPARATIVE EVALUATION OF TEXT ENTRY TECHNIQUES; 4.3 EXPERIMENT DESIGN; 4.4 LEARNING; 4.5 SUMMARY AND FURTHER READING; REFERENCES; Part 2 Entry Modalities |

1.

| | and Devices; Chapter 5 Text Entry Using a Small Number of Buttons; 5.1 INTRODUCTION 5.2 MOBILE PHONE KEYPAD AND ENTRY METHODS 5.3 CHARACTERISTIC MEASURES FOR AMBIGUOUS KEYBOARDS; 5.4 MOBILE PHONE KEYPAD VARIANTS; 5.5 EVALUATING KEYBOARDS; 5.6 ENTRY BY COMPLETION; 5.7 SUMMARY AND FURTHER READING; REFERENCES; Chapter 6 English Language Handwriting Recognition Interfaces; 6.1 INTRODUCTION; 6.2 OFFLINE HANDWRITING RECOGNITION; 6.3 ONLINE HANDWRITING RECOGNITION; 6.4 SHORTHAND; 6.5 COMMERCIAL ONLINE SYSTEMS; 6.6 CASE STUDY; 6.7 FURTHER READING; REFERENCES; Chapter 7 Introduction to Shape Writing; 7.1 INTRODUCTION; 7.2 THE BASIC CONCEPT OF SHAPE WRITING 7.3 INFORMATION AND CONSTRAINTS 7.4 SHAPE-WRITING RECOGNITION; 7.5 OUT-OF-LEXICON INPUT, AMBIGUITY, AND ERROR HANDLING; 7.6 HUMAN SENSITIVITY TO SHAPE AS AN ENCODING MODALITY AND THE PROGRESSION FROM TRACING TO DIRECT SHAPE WRITING; 7.7 EFFICIENCY AND LAYOUT MATTERS; 7.8 THE MULTIPLE DIMENSIONS AND GUIDELINES OF EFFICIENT TEXT ENTRY; 7.9 FURTHER READING; REFERENCES; Chapter 8 Speech-Based Interfaces; 8.1 INTRODUCTION; 8.2 CATEGORIES OF SPEECH RECOGNITION TASKS; 8.3 PRINCIPLES OF SPEECH RECOGNITION; 8.4 DICTATION SYSTEMS AND THEIR DIFFICULTIES; 8.5 SPOKEN DIALOGUE SYSTEMS AND THEIR DIFFICULTIES 8.6 EVALUATION OF SPEECH-BASED INPUT SYSTEMS 8.7 CONCLUSION; REFERENCES; Chapter 9 Text Entry by Gaze: Utilizing Eye Tracking; 9.1 INTRODUCTION; 9.2 DIFFERENT APPROACHES TO TEXT ENTRY BY GAZE; 9.3 CASE STUDIES AND GUIDELINES; 9.4 FURTHER READING; ACKNOWLEDGMENTS; REFERENCES; PART 3 Language Variations; Chapter 10 Writing System Variation and Text Entry; 10.1 INTRODUCTION; 10.2 VARIATION IN WRITING SYSTEMS; 10.4 ALPHABETIC SCRIPTS; 10.5 |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | CONCLUDING REMARKS; 10.6 ACKNOWLEDGMENTS; REFERENCES; Chapter 11 Text Entry in East Asian Languages 11.1 INTRODUCTION |
| Sommario/riassunto | Text entry has never been so important as it is today. This is in large part due to the phenomenal, relatively recent success of mobile computing, text messaging on mobile phones, and the proliferation of small devices like the Blackberry and Palm Pilot. Compared with the recent past, when text entry was primarily through the standard "qwerty? keyboard, people today use a diverse array of devices with the number and variety of such devices ever increasing. The variety is not just in the devices, but also in the technologies used: Entry modalities have become more varied and include |