

1. Record Nr.	UNINA9910453739203321
Titolo	Computational approaches to assistive technologies for people with disabilities / / edited by Nick Cercone and Kanlaya Naruedomkul
Pubbl/distr/stampa	Amsterdam ; ; Washington, D. C. : , : IOS Press, , [2013] ©2013
ISBN	1-61499-258-4
Descrizione fisica	1 online resource (276 p.)
Collana	Frontiers in Artificial Intelligence and Applications ; ; v.253
Altri autori (Persone)	CerconeNick NaruedomkulKanlaya
Disciplina	617/033
Soggetti	Assistive computer technology Computers and people with disabilities Electronic books.
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	""COMPUTATIONAL APPROACHES TO ASSISTIVE TECHNOLOGIES FOR PEOPLE WITH DISABILITIES""; ""Preface""; ""About The Authors""; ""Contents""; ""Part I a€? Introduction and Underpinnings""; ""Introduction""; ""Assistive Technology Products""; ""GRMT: an Alternative Communication Tool for Individuals""; ""Speech and Prosodic Processing for Assistive Technology""; ""Part II a€? Applications""; ""Thai Text-Thai Sign TranslationApplication (T3STA)""; ""SIGNMT: an Alternative Sign-Text MT for Language Learning""; ""I-Math: an Intelligent Accessible Mathematics system for People with Visual Impairment""; ""MATHMASTER: an Alternative Math Word Problems Translation""""; SimpLe: Lexical Simplification using Word Sense Disambiguation""; ""Thai Syllable Analysis for Rule-Based Text to Speech System""; ""Detecting and Rating Dementia of Alzheimer Type through Lexical Analysis of Spontaneous Speech""; ""Novel Curve Signatures and Combination Method for Thai Online Character Recognition""; ""Part III a€? Theories & Systems""; ""Granules for Learning Behavior""; ""Rough Sets Methods and Applications for Medical Data: A Survival Analysis Experience""

""Multimedia Support Systems as Assistive Technology for Hearing Impaired Students""";
Part IV a€? Conclusions and the Future";
""Assistive Technology: Concluding Remarks and the Future"";
""Appendices""; ""HPSG and Natural Language Processing "";
""Introduction to Rough Sets Theory""; ""Subject Index""; ""Author Index""

Sommario/riassunto

Assistive technologies have become increasingly important for people with disabilities in recent years. This book is the result of over a decade of research into computational approaches to assistive technology. Its chapters are based on a number of graduate theses, successfully completed over the past dozen or so years under the supervision of Kanlaya Naruedomkul of Mahidol University in Bangkok, Thailand and Nick Cercone of York University, Toronto, Canada. Some applications in the chapters use Thai language examples, but the techniques employed are not restricted to any single language. Eac
