1. Record Nr. UNISA996546838503316

Autore	Tan Xu
Titolo	Neural Text-to-Speech Synthesis [[electronic resource] /] / by Xu Tan
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	9789819908271 9789819908264
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (214 pages)
Collana	Artificial Intelligence: Foundations, Theory, and Algorithms, , 2365-306X
Disciplina	006.54
Soggetti	Natural language processing (Computer science) Speech processing systems Signal processing Machine learning Artificial intelligence Natural Language Processing (NLP) Speech and Audio Processing Machine Learning Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Introduction -- Part 1. Preliminary -- Chapter 2. Basics of Spoken Language Processing -- Chapter 3. Basics of Deep Learning -- Part 2. Key Components in TTS -- Chapter 4. Text Analyses -- Chapter 5. Acoustic Models -- Chapter 6. Vocoders -- Chapter 7. Fully End-to-End TTS -- Part 3. Advanced Topics in TTS -- Chapter 8. Expressive and Controllable TTS -- Chapter 9. Robust TTS -- Chapter 10. Model-Efficient TTS -- Chapter 11. Data-Efficient TTS -- Chapter 12. Beyond Text-to-Speech Synthesis -- Part 4. Summary and Outlook -- Chapter 13. Summary and Outlook.
Sommario/riassunto	Text-to-speech (TTS) aims to synthesize intelligible and natural speech based on the given text. It is a hot topic in language, speech, and machine learning research and has broad applications in industry. This book introduces neural network-based TTS in the era of deep learning,

	aiming to provide a good understanding of neural TTS, current research and applications, and the future research trend. This book first introduces the history of TTS technologies and overviews neural TTS, and provides preliminary knowledge on language and speech processing, neural networks and deep learning, and deep generative models. It then introduces neural TTS from the perspective of key components (text analyses, acoustic models, vocoders, and end-to-end models) and advanced topics (expressive and controllable, robust, model-efficient, and data-efficient TTS). It also points some future research directions and collects some resources related to TTS. This book is the first to introduce neural TTS in a comprehensive and easy-to-understand way and can serve both academic researchers and industry practitioners working on TTS.

2.

Record Nr.	UNINA9911019644203321
Autore	Gibson G. R
Titolo	Prebiotics : development & application / / G.R. Gibson and R.A. Rastall
Pubbl/distr/stampa	Chichester, England ; ; Hoboken, NJ, : John Wiley & Sons, c2006
ISBN	9786610448784 9781280448782 1280448784 9780470023150 0470023155 9780470023143 0470023147
Descrizione fisica	1 online resource (266 p.)
Altri autori (Persone)	RastallR. A
Disciplina	616.9/201
Soggetti	Prebiotics Bacteria - Health aspects Colon (Anatomy) - Microbiology
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	Prebiotics: Development & Application; Contents; List of Contributors; 1 Human Colonic Microbiology and the Role of Dietary Intervention: Introduction to Prebiotics; 2 Manufacture of Prebiotic Oligosaccharides; 3 Inulin-type Fructans as Prebiotics; 4 Galacto-oligosaccharides as Prebiotics; 5 Emerging Prebiotic Carbohydrates; 6 Molecular Microbial Ecology of the Human Gut; 7 Dietary Intervention for Improving Human Health: Acute Disorders; 8 Dietary Intervention for Improving Human Health: Chronic Disorders; 9 Extra Intestinal Effects of Prebiotics and Probiotics 10 Prebiotic Impacts on Companion Animals11 Prebiotics: Past, Present and Future; Index
Sommario/riassunto	The prebiotic concept works on the basis that many potentially health-promoting microorganisms are already present in humans. Prebiotics are non-digestible food ingredients that stimulate activity in targeted microorganisms, to improve the health of the individual. Prebiotics can be incorporated into many foodstuffs such as beverages, health and sports drinks, infant formulae, cereals, bread, savoury products and so forth, and are receiving much commercial interest. Prebiotics: Development and Application is the first book to consolidate research in this emerging area of 'functional f