Record Nr.	UNINA9910830593503321
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Titolo	Voice and audio compression for wireless communications / / Lajos Hanzo, F. Clare Somerville, Jason Woodard
Pubbl/distr/stampa	Chichester, England ; , : John Wiley, , c2007
	[Piscataqay, New Jersey] : , : IEEE Xplore, , 2007
ISBN	1-281-84037-8
	9786611840372
	0-470-51603-8
	0-470-51602-X
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (881 p.)
Altri autori (Persone)	SomervilleF. Clare A
	WoodardJason P
Disciplina	621.384
Soggetti	Compressed speech
	Speech processing systems
	Telecommunication systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"IEEE Press; IEEE Communications Society, sponsor."
Note generali	
	Rev. ed. of: Voice compression and communications, c2001.
Nota di bibliografia	Rev. ed. of: Voice compression and communications, c2001. Includes bibliographical references (p.[797]-823) and indexes.
	Rev. ed. of: Voice compression and communications, c2001.

1.

## Sommario/riassunto

Voice communications remains the most important facet of mobile radio services, which may be delivered over conventional fixed links, the Internet or wireless channels. This all-encompassing volume reports on the entire 50-year history of voice compression, on recent audio compression techniques and the protection as well as transmission of these signals in hostile wireless propagation environments. Audio and Voice Compression for Wireless and Wireline Communications, Second Edition is divided into four parts with Part I covering the basics, while Part II outlines the design of analysis-bysynthesis coding, including a 100-page chapter on virtually all existing standardised speech codecs. The focus of Part III is on wideband and audio coding as well as transmission. Finally, Part IV concludes the book with a range of very low rate encoding techniques, scanning a range of research-oriented topics. . Fully updated and revised second edition of "Voice Compression and Communications<U+009d>, expanded to cover Audio features. Includes two new chapters, on narrowband and wideband AMR coding, and MPEG audio coding. Addresses the new developments in the field of wideband speech and audio compression. Covers compression, error resilience and error correction coding, as well as transmission aspects, including cuttingedge turbo transceivers. Presents both the historic and current view of speech compression and communications. Covering fundamental concepts in a non-mathematical way before moving to detailed discussions of theoretical principles, future concepts and solutions to various specific wireless voice communication problems, this book will appeal to both advanced readers and those with a background knowledge of signal processing and communications.