1. Record Nr. UNINA9910337617203321

Autore	Dhar Pranab Kumar
Titolo	Advances in Audio Watermarking Based on Matrix Decomposition / / by Pranab Kumar Dhar, Tetsuya Shimamura
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-15726-1
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (62 pages)
Collana	SpringerBriefs in Speech Technology, Studies in Speech Signal Processing, Natural Language Understanding, and Machine Learning, , 2191-737X
Disciplina	676.28027 005.8
Soggetti	Signal processing Image processing Speech processing systems Computational linguistics Algorithms Signal, Image and Speech Processing Computational Linguistics Algorithm Analysis and Problem Complexity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter1: Introduction -- Chapter2: LWT-Based Audio Watermarking Using FWHT and SVD -- Chapter3: Audio Watermarking Based on LWT and QRD -- Chapter4: Audio Watermarking Based on FWHT and LUD -- Chapter5: Audio Watermarking Based on LWT and SD -- Chapter6: Conclusions and Future Work.
Sommario/riassunto	This book introduces audio watermarking methods in transform domain based on matrix decomposition for copyright protection. Chapter 1 discusses the application and properties of digital watermarking. Chapter 2 proposes a blind lifting wavelet transform (LWT) based watermarking method using fast Walsh Hadamard transform (FWHT) and singular value decomposition (SVD) for audio copyright protection. Chapter 3 presents a blind audio watermarking

method based on LWT and QR decomposition (QRD) for audio copyright protection. Chapter 4 introduces an audio watermarking algorithm based on FWHT and LU decomposition (LUD). Chapter 5 proposes an audio watermarking method based on LWT and Schur decomposition (SD). Chapter 6 explains in details on the challenges and future trends of audio watermarking in various application areas. Introduces audio watermarking methods for copyright protection and ownership protection; Describes watermarking methods with encryption and decryption that provide excellent performance in terms of imperceptibility, robustness, and data payload; Discusses in details on the challenges and future research direction of audio watermarking in various application areas.