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Titolo	Digital Audio Watermarking : Fundamentals, Techniques and Challenges // by Yong Xiang, Guang Hua, Bin Yan
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Descrizione fisica	1 online resource (XII, 90 p. 32 illus., 3 illus. in color.)
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Disciplina	005.82
Soggetti	Signal processing Image processing Speech processing systems Acoustical engineering System safety Signal, Image and Speech Processing Engineering Acoustics Security Science and Technology
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction -- Human Auditory System and Imperceptibility Control -- Classical Techniques and Recent Developments -- Reversible Audio Watermarking -- Audio Watermarking with Encryption -- Conclusion.
Sommario/riassunto	This book offers comprehensive coverage on the most important aspects of audio watermarking, from classic techniques to the latest advances, from commonly investigated topics to emerging research subdomains, and from the research and development achievements to date, to current limitations, challenges, and future directions. It also addresses key topics such as reversible audio watermarking, audio watermarking with encryption, and imperceptibility control methods. The book sets itself apart from the existing literature in three main ways. Firstly, it not only reviews classical categories of audio watermarking techniques, but also provides detailed descriptions, analysis and experimental results of the latest work in each category. Secondly, it highlights the emerging research topic of reversible audio watermarking, including recent research trends, unique features, and

the potentials of this subdomain. Lastly, the joint consideration of audio watermarking and encryption is also reviewed. With the help of this concept, more secure audio watermarking systems can be developed, which meet the requirements for security and privacy in cloud-based networks and systems. Accordingly, the book serves as a tutorial suitable for readers with a general knowledge of audio signal processing as well as experts in related areas, helping these readers understand the basic principles and the latest advances, concepts and applications of audio watermarking.
