



Principles of Speech Coding

Tokunbo Ogunfunmi, Madihally Narasimha

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It is becoming increasingly apparent that all forms of communication—including voice—will be transmitted through packet-switched networks based on the Internet Protocol (IP). Therefore, the design of modern devices that rely on speech interfaces, such as cell phones and PDAs, requires a complete and up-to-date understanding of the basics of speech coding.

Outlines key signal processing algorithms used to mitigate impairments to speech quality in VoIP networks

Offering a detailed yet easily accessible introduction to the field, **Principles of Speech Coding** provides an in-depth examination of the underlying signal processing techniques used in speech coding. The authors present coding standards from various organizations, including the International Telecommunication Union (ITU). With a focus on applications such as Voice-over-IP telephony, this comprehensive text covers recent research findings on topics including:

- A general introduction to speech processing
- Digital signal processing concepts
- Sampling theory and related topics
- Principles of pulse code modulation (PCM) and adaptive differential pulse code modulation (ADPCM) standards
- Linear prediction (LP) and use of the linear predictive coding (LPC) model
- Vector quantization and its applications in speech coding
- Case studies of practical speech coders from ITU and others
- The Internet low-bit-rate coder (ILBC)

Developed from the authors' combined teachings, this book also illustrates its contents by providing a real-time implementation of a speech coder on a digital signal processing chip. With its balance of theory and practical coverage, it is ideal for senior-level undergraduate and graduate students in electrical and computer engineering. It is also suitable for engineers and researchers designing or using speech coding systems in their work.

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Rose Taylor:

A lot of people always spent all their free time to vacation or maybe go to the outside with them friends and family or their friend. Do you realize? Many a lot of people spent many people free time just watching TV, as well as playing video games all day long. In order to try to find a new activity this is look different you can read a book. It is really fun in your case. If you enjoy the book which you read you can spent the entire day to reading a guide. The book Principles of Speech Coding it is extremely good to read. There are a lot of folks that recommended this book. These folks were enjoying reading this book. In the event you did not have enough space to develop this book you can buy often the e-book. You can m0ore easily to read this book out of your smart phone. The price is not too costly but this book provides high quality.

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