Fundamentals of Speaker Recognition

By Homayoon Beigi

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An emerging technology, Speaker Recognition is becoming well-known for providing voice authentication over the telephone for helpdesks, call centres and other enterprise businesses for business process automation. 'Fundamentals of Speaker Recognition' introduces Speaker Identification, Speaker Verification, Speaker (Audio Event) Classification, Speaker Detection, Speaker Tracking and more. The technical problems are rigorously defined, and a complete picture is made of the relevance of the discussed algorithms and their usage in building a comprehensive Speaker Recognition System. Designed as a textbook with examples and exercises at the end of each chapter, 'Fundamentals of Speaker Recognition' is suitable for advanced-level students in computer science and engineering, concentrating on biometrics, speech recognition, pattern recognition, signal processing and, specifically, speaker recognition. It is also a valuable reference for developers of commercial technology and for speech scientists. Please click on the link under 'Additional Information' to view supplemental information including the Table of Contents and Index.

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Editorial Review

Review

From the reviews:

"... there is no comprehensive overview of speaker recognition.

Aside from the absence of a complete overview of the technology there is a commercial need for a good reference. The reason is that the commercial market for speaker recognition is growing and a need to have scientists and technology developers who understand and can work with this technology.

It goes into far more technical depth than other publications - mostly because those other publications cover other topics as well.

It is a scholarly book that does not appear to be representing knowledge about the topic through the filter of a specific product or kind of application. That is very good for scientists and scholars. Consequently, it would be a good text book or technical reference."

Judith Markowitz (J. Markowitz Consultants, Chicago, Illinois, USA)

"In short, this publication would be a service to many researchers and practitioners of this science and technology. I do not know of any other book on the subject. I am much impressed with the depth and breadth that the subject is going to be treated as evidenced from its table of contents."

Fereydoun Maali, Ph.D. (ICx Vision Systems, Phoenix, Arizona, USA)

"This book is unique in several respects. It is the most exhaustive text on speaker recognition available. It is also truly self-contained. About a third of the text is devoted to the background information needed for understanding speaker recognition technology. … this text sets the standard for speaker recognition textbooks. I recommend it both as an introduction to the subject and as a reference on speaker recognition techniques." (Vladimir Botchev, ACM Computing Reviews, January, 2013)

Users Review

From reader reviews:

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