1. Record Nr. UNINA9910143554603321

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Titolo	Perceptual audio evaluation [[electronic resource]] : theory, method and application / / Søren Bech, Nick Zacharov
Pubbl/distr/stampa	Chichester, England ; ; Hoboken, NJ, : John Wiley & Sons, c2006
ISBN	1-280-74123-6 9786610741236 0-470-86925-9 0-470-86924-0
Descrizione fisica	1 online resource (464 p.)
Altri autori (Persone)	ZacharovNick
Disciplina	621.38933
Soggetti	Sound - Recording and reproducing High-fidelity sound systems - Testing Sound - Measurement Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 389-434) and index.
Nota di contenuto	Perceptual Audio Evaluation-Theory, Method and Application; Contents; Preface; Organisation of the Book; Acknowledgments; 1 Introduction; 1.1 Motivation for Listening Tests; 1.2 Role of Standardisation; 1.3 Role of Predictive Models; I Experimental Considerations; 2 Definition of Research Question and Hypothesis; 2.1 Principle of Empiricism; 2.2 Principle of Rationalism; 2.3 Other Principles of Scientific Argumentation; 2.3.1 Probabilistic Reasoning; 2.3.2 Argumentum ad Hominem; 2.3.3 Conclusion by Analogy; 2.4 Summary; 3 Fundamentals of Experimentation; 4 Quantification of Impression 4.1 Response Attribute4.1.1 Perceptual Measurements; 4.1.2 Affective Measurements; 4.2 Response Format; 4.2.1 Direct Scaling; 4.2.2 Indirect Scaling; 4.2.3 Selection of an Appropriate Scaling Procedure; 4.2.4 Context and Bias Effects; 4.2.5 Other Bias Effects; 4.3 Overview of Process; 5 Experimental Variables; 5.1 Signal; 5.1.1 Signal Category; 5.1.2 Recording Technique, Storage and Encoding; 5.1.3 Time Domain Characteristics; 5.1.4 Spectral Characteristics; 5.1.5 Spatial Characteristics; 5.1.6 Reference Signals; 5.2 Reproduction System; 5.3

Listening Room; 5.4 Subject Considerations
5.4.1 Categorisation and Applicability5.4.2 Listening Panels; 5.4.3 Subject Selection; 5.4.4 Training and Monitoring; 6 Statistics; 6.1 Statistical Experimental Design; 6.2 Statistical Analysis; 6.2.1 Classification of Data Type; 6.2.2 Levels of Analysis; 6.2.3 Descriptive Level; 6.2.4 Inferential Level; 6.2.5 Statistical Checklist; II Technical Considerations; 7 Electroacoustic Considerations; 7.1 Listening Rooms; 7.1.1 IEC 60268-13 Listening Rooms; 7.1.2 ITU-R Recommendation BS. 1116-1 Listening Rooms; 7.1.3 EBU 3276 Listening Rooms; 7.1.4 General Characteristics; 7.2 Listening Booths
7.3 Other Spaces7.4 Listener and Loudspeaker Positioning; 7.4.1 Monophonic Reproduction; 7.4.2 Stereophonic Reproduction; 7.4.3 Multichannel Reproduction; 7.4.4 Separate Bass Loudspeakers; 7.4.5 Listener Position; 7.5 Accompanying Picture; 7.6 Commonly Encountered Problems; 7.7 Electrical Considerations; 8 Calibration; 8.1 Level Calibration; 8.1.1 Level Calibration Methods; 8.1.2 Level Metric Selection; 8.1.3 Preferred Listening Levels; 8.1.4 Reference Reproduction Levels; 8.2 Loudspeaker Calibration; 8.2.1 Level Calibration; 8.3 Headphone Calibration; 8.3.1 Headphone Types
8.3.2 Ear Measurement Points8.3.3 Headphone Measurement; 8.3.4 Target Frequency Response; 8.3.5 Level Calibration; 9 Test Planning, Administration and Reporting; 9.1 Planning; 9.1.1 Experimental Planning; 9.1.2 Logistic Considerations; 9.1.3 Ethical Considerations; 9.2 Administration; 9.2.1 Subject Matters; 9.2.2 Subject Familiarisation; 9.2.3 Listening Test Software; 9.3 Reporting; III Applications; 10 Commonly Encountered Experimental Paradigms; 10.1 Standards; 10.1.1 ITU-T Recommendation P.800 Methods; 10.1.2 ITU-R Recommendation BS.1116-1; 10.1.3 ITU-R Recommendation BS.1534-1
IV Appendices

Sommario/riassunto

As audio and telecommunication technologies develop, there is an increasing need to evaluate the technical and perceptual performance of these innovations. A growing number of new technologies (e.g. low bit-rate coding) are based on specific properties of the auditory system, which are often highly non-linear. This means that the auditory quality of such systems cannot be measured by traditional physical measures (such as distortion, frequency response etc.), but only by perceptual evaluations in the form of listening tests. Perceptual Audio Evaluation provides a comprehen

2. Record Nr. UNINA9910795325303321

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Titolo	Apache Hadoop 3 quick start guide : learn about big data processing and analytics / / Hrishikesh Vijay Karambelkar
Pubbl/distr/stampa	London, England : , : Packt Publishing, Limited, , [2018] ©2018
Edizione	[First edition]
Descrizione fisica	1 online resource (220 pages)
Disciplina	004.36
Soggetti	Cloud computing Electronic data processing - Distributed processing - Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Sommario/riassunto	A fast paced guide that will help you learn about Apache Hadoop 3 and its ecosystem Key Features Set up, configure and get started with Hadoop to get useful insights from large data sets Work with the different components of Hadoop such as MapReduce, HDFS and YARN Learn about the new features introduced in Hadoop 3 Book Description Apache Hadoop is a widely used distributed data platform. It enables large datasets to be efficiently processed instead of using one large computer to store and process the data. This book will get you started with the Hadoop ecosystem, and introduce you to the main technical topics, including MapReduce, YARN, and HDFS. The book begins with an overview of big data and Apache Hadoop. Then, you will set up a pseudo Hadoop development environment and a multi-node enterprise Hadoop cluster. You will see how the parallel programming paradigm, such as MapReduce, can solve many complex data processing problems. The book also covers the important aspects of the big data software development lifecycle, including quality assurance and control, performance, administration, and monitoring. You will then learn about the Hadoop ecosystem, and tools such as Kafka, Sqoop, Flume, Pig, Hive, and HBase. Finally, you will look at advanced topics, including real time streaming using Apache Storm, and data analytics

using Apache Spark. By the end of the book, you will be well versed with different configurations of the Hadoop 3 cluster. What you will learn Store and analyze data at scale using HDFS, MapReduce and YARN Install and configure Hadoop 3 in different modes Use Yarn effectively to run different applications on Hadoop based platform Understand and monitor how Hadoop cluster is managed Consume streaming data using Storm, and then analyze it using Spark Explore Apache Hadoop ecosystem components, such as Flume, Sqoop, HBase, Hive, and Kafka Who this book is for Aspiring Big Data professionals who want to learn the essentials of Hadoop 3 will find this book to be useful. Existing Hadoop users who want to get up to speed with the new features introduced in Hadoop 3 will also benefit from this book. Having knowledge of Java programming will be an added advantage.