
Profile Analysis

A Different View of Auditory Intensity Discrimination

David M. Green *Harvard University*

ABSTRACT: *This article describes some auditory experiments involving the detection of a change in the spectrum of a brief auditory signal. Unlike the more traditional view of intensity discrimination that emphasizes a change in level in a particular frequency band, a new view based on the evaluation of the overall shape or profile of the spectrum is proposed. This new view is different in several ways from the traditional description. First, the memory requirements appear to be quite different, as demonstrated in an experiment in which the interstimulus interval is changed. Second, the mechanism of detecting the change appears to be global rather than local, since detection improves as the spectrum increases in width and density. Despite the global nature of the process, one does not seem to be able to combine spectral estimates across the two ears. Finally, the idea of profile analysis is applied to the problem of detecting a sinusoid in noise and to the results obtained when signal frequency is uncertain.*

This article analyzes the common auditory problem of detecting a difference between two sounds. This analysis is restricted to sounds that differ only in the intensity of some part of their spectra. Examples of problems usually treated under this restriction are the detection of an increment in a sinusoidal signal, the detection of a weak signal in noise, or the change in intensity of some component or components of a multicomponent signal.

There are two general accounts of how intensity discrimination is carried out. The first is a traditional view, one that has developed during the past 20 years and that still represents the best current theoretical position we have for dealing with a certain set of intensity discrimination problems. The second view, which we call profile analysis, represents, in part, the realization that certain problems of intensity discrimination may involve mechanisms and processes quite different from those described in the traditional view. Profile analysis stresses the importance of certain variables that the traditional view largely ignored. By the same token, profile analysis suggests that other variables, held to be crucial in the traditional view, are largely unimportant.

These two views are not exclusive. When discriminating the change in the intensity of a single pure tone, for example, the traditional view is the only analysis possible because no profile is available. But in a number of situations there is appreciable energy distributed throughout the spectrum. This energy, which the traditional view ignores, becomes part of a "profile" that can strongly influence our ability to detect a small change in energy in some other part of the spectrum.

The task, then, is not to choose between the two views, but to determine those situations in which one or the other view is more appropriate. This article's organization is not chronological, and the theoretical issues described in the first part did not motivate the experimental work presented later. Rather, a number of experimental results suggested something amiss with the traditional view, and further experimental work suggested the idea of a profile. Still further work has clarified some of the properties of this concept, but additional work is needed to understand the process in more detail and to answer the many important questions that remain unanswered. The results presented here largely summarize what we have learned in the past two years.

Finally, I should indicate the thanks I owe to my collaborators in this effort, Murray Spiegel and Gerald Kidd, who were postdoctoral fellows in my laboratory, and Maria Picardi, who programmed many of the experiments and collected some of the data.

Theory

Figure 1 displays, in its simplest terms, the difference between what I shall call the traditional view and profile analysis. The difference is illustrated in a two-alternative forced-choice task. The observer's task is to detect the signal increment added to one of two sounds presented at two different times. The figure illustrates the spectra of the two sounds and the measurements presumed to be made by the observer in trying to detect the difference. The nature of the measurement is not known in detail, but we will try to characterize its general features in the discussion that follows. The figure highlights that the critical difference is whether the comparison is between two

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Hearing United States. National Recovery Administration,1933

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Table of Contents Profile Analysis Auditory Intensity Discrimination

1. Understanding the eBook Profile Analysis Auditory Intensity Discrimination
 - The Rise of Digital Reading Profile Analysis Auditory Intensity Discrimination
 - Advantages of eBooks Over Traditional Books
2. Identifying Profile Analysis Auditory Intensity Discrimination
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Profile Analysis Auditory Intensity Discrimination
 - User-Friendly Interface
4. Exploring eBook Recommendations from Profile Analysis Auditory Intensity Discrimination
 - Personalized Recommendations
 - Profile Analysis Auditory Intensity Discrimination User Reviews and Ratings
 - Profile Analysis Auditory Intensity Discrimination and Bestseller Lists
5. Accessing Profile Analysis Auditory Intensity Discrimination Free and Paid eBooks
 - Profile Analysis Auditory Intensity Discrimination Public Domain eBooks
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- Profile Analysis Auditory Intensity Discrimination Budget-Friendly Options
- 6. Navigating Profile Analysis Auditory Intensity Discrimination eBook Formats
 - ePub, PDF, MOBI, and More
 - Profile Analysis Auditory Intensity Discrimination Compatibility with Devices
 - Profile Analysis Auditory Intensity Discrimination Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Profile Analysis Auditory Intensity Discrimination
 - Highlighting and Note-Taking Profile Analysis Auditory Intensity Discrimination
 - Interactive Elements Profile Analysis Auditory Intensity Discrimination
- 8. Staying Engaged with Profile Analysis Auditory Intensity Discrimination
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Profile Analysis Auditory Intensity Discrimination
- 9. Balancing eBooks and Physical Books Profile Analysis Auditory Intensity Discrimination
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Profile Analysis Auditory Intensity Discrimination
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Profile Analysis Auditory Intensity Discrimination
 - Setting Reading Goals Profile Analysis Auditory Intensity Discrimination
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Profile Analysis Auditory Intensity Discrimination
 - Fact-Checking eBook Content of Profile Analysis Auditory Intensity Discrimination
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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