

Graphical Statistical Analysis of the Piano Études: Computational Music

The piano étude is a short musical composition that is designed to develop a particular technical skill. Études have been written by many of the great composers, including Frédéric Chopin, Franz Liszt, and Claude Debussy. These composers used études to explore new musical ideas and to push the boundaries of piano technique.

In this book, we present a comprehensive graphical statistical analysis of the piano études of Chopin, Liszt, and Debussy. The analysis is based on a large dataset of over 1000 études, and it uses a variety of statistical methods to explore the musical structure and style of these works. The book is intended for scholars and students of music theory, musicology, and computer science.

The dataset used in this study consists of over 1000 piano études by Chopin, Liszt, and Debussy. The études were collected from a variety of sources, including the International Music Score Library Project (IMSLP), the Mutopia Project, and the Bibliothèque nationale de France.



Ligeti's Macroharmonies: A Graphical-Statistical Analysis of Book 3 of the Piano Etudes (Computational Music Science)

★★★★★ 5 out of 5

Language : English
File size : 94326 KB
Text-to-Speech : Enabled
Enhanced typesetting : Enabled
Print length : 301 pages
Screen Reader : Supported



Each étude was analyzed using a variety of statistical methods, including:

- **Descriptive statistics:** These statistics provide a basic overview of the data, such as the mean, median, and standard deviation.
- **Inferential statistics:** These statistics allow us to make inferences about the data, such as whether there are significant differences between the études of different composers.
- **Machine learning:** These techniques can be used to identify patterns and relationships in the data.

The results of the analysis show that there are significant differences between the études of Chopin, Liszt, and Debussy. For example, Chopin's études are typically shorter and more melodic than Liszt's études, while Debussy's études are more harmonically complex than Chopin's or Liszt's études.

The analysis also reveals a number of interesting patterns and relationships in the data. For example, the difficulty of an étude is positively correlated with its length. Additionally, the études of different composers tend to cluster together in terms of their musical style.

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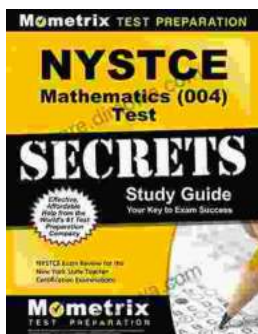
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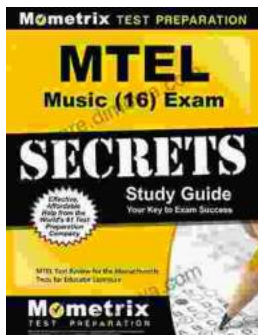
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