DESCRIPTION

Statistical methodology plays a key role in ensuring that DNA evidence is collected, interpreted, analyzed and presented correctly. With the recent advances in computer technology, this methodology is more complex than ever before. There are a growing number of books in the area but none are devoted to the computational analysis of evidence. This book presents the methodology of statistical DNA forensics with an emphasis on the use of computational techniques to analyze and interpret forensic evidence.

ABOUT THE AUTHOR

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With 20 years of lecturing and research experience, Professor Fung has been invited many times to give talks at workshops and international conferences. He has written over 130 papers in statistics, DNA profiling and forensic science, and is currently an Associate Editor for 4 statistical journals.

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An Associate Professor, Yue-Qing Hu has published over 30 refereed papers, a number of these with Wing Kam Fung.
• The first book to provide forensic scientists and statisticians with a software to analyze evidence.

• Provides an accessible overview of the essential statistical methodology and computational techniques used in collecting and analyzing DNA evidence.

• Introductory chapters familiarize the reader with forensic DNA, population genetics, statistics and probability at elementary levels, making the book accessible to forensic scientists with limited background in genetics.

• Progresses to more advanced levels, covering three fundamental applications of DNA profiling: testing paternity, single source forensic DNA and mixed source DNA stains.

• Discusses the database search method in forensic DNA, presentation of the evidence, and some of the myths associated with the interpretation of such evidence.

• Supported by a supplementary website containing examples and solutions, and featuring a relevant downloadable version of the software used throughout the book, enabling the reader to analyze real case data for themselves.

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