

Benfords Law Theory And Applications

Mark J. Nigrini

Benfords Law Theory And Applications:

Benford's Law Steven J. Miller, 2015-06-09 Benford's law states that the leading digits of many data sets are not uniformly distributed from one through nine but rather exhibit a profound bias This bias is evident in everything from electricity bills and street addresses to stock prices population numbers mortality rates and the lengths of rivers Here Steven Miller brings together many of the world's leading experts on Benford's law to demonstrate the many useful techniques that arise from the law show how truly multidisciplinary it is and encourage collaboration Beginning with the general theory the contributors explain the prevalence of the bias highlighting explanations for when systems should and should not follow Benford's law and how quickly such behavior sets in They go on to discuss important applications in disciplines ranging from accounting and economics to psychology and the natural sciences The contributors describe how Benford's law has been successfully used to expose fraud in elections medical tests tax filings and financial reports Additionally numerous problems background materials and technical details are available online to help instructors create courses around the book Emphasizing common challenges and techniques across the disciplines this accessible book shows how Benford's law can serve as a productive meeting ground for researchers and practitioners in diverse fields Theory and Applications of Difference Equations and Discrete Dynamical Systems Ziyad AlSharawi, Jim M. Cushing, Saber Elaydi, 2014-08-22 This volume contains the proceedings of the 19th International Conference on Difference Equations and Applications held at Sultan Qaboos University Muscat Oman in May 2013 The conference brought together experts and novices in the theory and applications of difference equations and discrete dynamical systems. The volume features papers in difference equations and discrete time dynamical systems with applications to mathematical sciences and in particular mathematical biology ecology and epidemiology It includes four invited papers and eight contributed papers Topics covered include competitive exclusion through discrete time models Benford solutions of linear difference equations chaos and wild chaos in Lorenz type systems advances in periodic difference equations the periodic decomposition problem dynamic selection systems and replicator equations and asymptotic equivalence of difference equations in Banach Space This book will appeal to researchers scientists and educators who work in the fields of difference equations discrete time dynamical systems and their applications An Introduction to **Benford's Law** Arno Berger, Theodore P. Hill, 2015-05-26 This book provides the first comprehensive treatment of Benford's law the surprising logarithmic distribution of significant digits discovered in the late nineteenth century Establishing the mathematical and statistical principles that underpin this intriguing phenomenon the text combines up to date theoretical results with overviews of the law s colorful history rapidly growing body of empirical evidence and wide range of applications An Introduction to Benford's Law begins with basic facts about significant digits Benford functions sequences and random variables including tools from the theory of uniform distribution After introducing the scale base and sum invariance characterizations of the law the book develops the significant digit properties of both deterministic and stochastic processes

such as iterations of functions powers of matrices differential equations and products powers and mixtures of random variables Two concluding chapters survey the finitely additive theory and the flourishing applications of Benford's law Carefully selected diagrams tables and close to 150 examples illuminate the main concepts throughout The text includes many open problems in addition to dozens of new basic theorems and all the main references A distinguishing feature is the emphasis on the surprising ubiquity and robustness of the significant digit law This text can serve as both a primary reference and a basis for seminars and courses Benford's Law: Theory, The General Law Of Relative Quantities, And Forensic Fraud Detection Applications Alex Ely Kossovsky, 2014-08-21 Contrary to common intuition that all digits should occur randomly with equal chances in real data empirical examinations consistently show that not all digits are created equal but rather that low digits such as 1 2 3 occur much more frequently than high digits such as 7 8 9 in almost all data types such as those relating to geology chemistry astronomy physics and engineering as well as in accounting financial econometrics and demographics data sets This intriguing digital phenomenon is known as Benford's Law This book gives a comprehensive and in depth account of all the theoretical aspects results causes and explanations of Benford's Law with a strong emphasis on the connection to real life data and the physical manifestation of the law In addition to such a bird s eye view of the digital phenomenon the conceptual distinctions between digits numbers and quantities are explored leading to the key finding that the phenomenon is actually quantitative in nature originating from the fact that in extreme generality nature creates many small quantities but very few big quantities corroborating the motto small is beautiful and that therefore all this is applicable just as well to data written in the ancient Roman Mayan Egyptian and other digit less civilizations Fraudsters are typically not aware of this digital pattern and tend to invent numbers with approximately equal digital frequencies The digital analyst can easily check reported data for compliance with this digital law enabling the detection of tax evasion Ponzi schemes and other financial scams The forensic fraud detection section in this book is written in a very concise and reader friendly style gathering all known methods and standards in the accounting and auditing industry summarizing and fusing them into a singular coherent whole and can be understood without deep knowledge in statistical theory or advanced mathematics In addition a digital algorithm is presented enabling the auditor to detect fraud even when the sophisticated cheater is aware of the law and invents numbers accordingly The algorithm employs a subtle inner digital pattern within the Benford's pattern itself This newly discovered pattern is deemed to be nearly universal being even more prevalent than the Benford phenomenon as it is found in all random data sets Benford as well as non Benford types

Benford's Law Steven J. Miller,2015-05-26 Benford's law states that the leading digits of many data sets are not uniformly distributed from one through nine but rather exhibit a profound bias This bias is evident in everything from electricity bills and street addresses to stock prices population numbers mortality rates and the lengths of rivers Here Steven Miller brings together many of the world's leading experts on Benford's law to demonstrate the many useful techniques that arise from the

law show how truly multidisciplinary it is and encourage collaboration Beginning with the general theory the contributors explain the prevalence of the bias highlighting explanations for when systems should and should not follow Benford's law and how quickly such behavior sets in They go on to discuss important applications in disciplines ranging from accounting and economics to psychology and the natural sciences The contributors describe how Benford's law has been successfully used to expose fraud in elections medical tests tax filings and financial reports Additionally numerous problems background materials and technical details are available online to help instructors create courses around the book Emphasizing common challenges and techniques across the disciplines this accessible book shows how Benford's law can serve as a productive meeting ground for researchers and practitioners in diverse fields A COMPREHENSIVE SUMMARY OF THE

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Forensic Analytics Mark J. Nigrini, 2020-04-20 Become the forensic analytics expert in your organization using effective and efficient data analysis tests to find anomalies biases and potential fraud the updated new edition Forensic Analytics reviews the methods and techniques that forensic accountants can use to detect intentional and unintentional errors fraud and biases This updated second edition shows accountants and auditors how analyzing their corporate or public sector data can highlight transactions balances or subsets of transactions or balances in need of attention These tests are made up of a set of initial high level overview tests followed by a series of more focused tests These focused tests use a variety of quantitative methods including Benford's Law outlier detection the detection of duplicates a comparison to benchmarks time series methods risk scoring and sometimes simply statistical logic The tests in the new edition include the newly developed vector variation score that quantifies the change in an array of data from one period to the next The goals of the tests are to either produce a small sample of suspicious transactions a small set of transaction groups or a risk score related to individual transactions or a group of items The new edition includes over two hundred figures Each chapter where applicable includes one or more cases showing how the tests under discussion could have detected the fraud or anomalies. The new edition also includes two chapters each describing multi million dollar fraud schemes and the insights that can be learned from those examples These interesting real world examples help to make the text accessible and understandable for accounting professionals and accounting students without rigorous backgrounds in mathematics and statistics Emphasizing practical applications the new edition shows how to use either Excel or Access to run these analytics tests The book also has some coverage on using Minitab IDEA R and Tableau to run forensic focused tests The use of SAS and Power BI rounds out the software coverage The software screenshots use the latest versions of the software available at the time of writing This authoritative book Describes the use of statistically based techniques including Benford's Law descriptive statistics and the vector variation score to detect errors and anomalies Shows how to run most of the tests in Access and Excel and other data analysis software packages for a small sample of the tests Applies the tests under review in each chapter to the same purchasing card data from a government entity Includes

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