

# Mining Imperfect Data

Dealing with Contamination  
and Incomplete Records

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# Mining Imperfect Data Dealing With Conta

**Gustavus Adolphus Weber**



## **Mining Imperfect Data Dealing With Conta:**

**Mining Imperfect Data** Ronald K. Pearson, 2020-09-10 It has been estimated that as much as 80% of the total effort in a typical data analysis project is taken up with data preparation including reconciling and merging data from different sources identifying and interpreting various data anomalies and selecting and implementing appropriate treatment strategies for the anomalies that are found This book focuses on the identification and treatment of data anomalies including examples that highlight different types of anomalies their potential consequences if left undetected and untreated and options for dealing with them As both data sources and free open source data analysis software environments proliferate more people and organizations are motivated to extract useful insights and information from data of many different kinds e g numerical categorical and text The book emphasizes the range of open source tools available for identifying and treating data anomalies mostly in R but also with several examples in Python Mining Imperfect Data With Examples in R and Python Second Edition presents a unified coverage of 10 different types of data anomalies outliers missing data inliers metadata errors misalignment errors thin levels in categorical variables noninformative variables duplicated records coarsening of numerical data and target leakage It includes an in depth treatment of time series outliers and simple nonlinear digital filtering strategies for dealing with them and it provides a detailed introduction to several useful mathematical characteristics of important data characterizations that do not appear to be widely known among practitioners such as functional equations and key inequalities While this book is primarily for data scientists researchers in a variety of fields namely statistics machine learning physics engineering medicine social sciences economics and business will also find it useful **Mining Imperfect Data** Ronald K. Pearson, 2005-04-01 This book discusses the problems that can occur in data mining including their sources consequences detection and treatment *Engineering and Mining Journal* ,1876 *Coal Mining Catalogs* ,1917 *Canadian Mining Journal* ,1913 *Industrial & Mining Standard* ,1905 **Mining Journal** ,1912 *Mining and Scientific Press* ,1910 **Service Monographs of the United States Government** ,1925 **The Bureau of Standards** Gustavus Adolphus Weber, 1925 **Service Monographs of the United States Government** Brookings Institution. Institute for Government Research, 1925 *Coal Age* ,1916 Vols for 1955 62 include Mining guidebook and buying directory **Mines and Minerals** ,1887 **Colliery Engineer** ,1887 *Gardeners' Chronicle* ,1871 **Gardeners' Chronicle and Agricultural Gazette** ,1871 **Petroleum Times** ,1924 *AMSTAT News* American Statistical Association, 2000 **Journal of the United States Association of Charcoal Iron Workers** United States Association of Charcoal Iron Workers, 1886 *The Petroleum Review, with which is Incorporated "Petroleum"* ,1900

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