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Titolo	Multiple imputation for nonresponse in surveys / / Donald B. Rubin
Pubbl/distr/stampa	Hoboken, N.J. ; , : Wiley-Interscience, 2004
ISBN	9786612307591 9781282307599 1282307592 9780470316696 0470316691 9780470317365 0470317361
Descrizione fisica	1 online resource (xxix, 287 p.) : ill
Collana	Wiley series in probability and mathematical statistics. Multiple imputation for nonresponse in surveys Wiley classics library
Disciplina	001.422
Soggetti	Multiple imputation (Statistics) Nonresponse (Statistics) Social surveys - Response rate Multiple imputation (Statistics) - Response rate Social surveys Social Sciences Statistics - General Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Originally published: Wiley, 1987 Formerly CIP.
Nota di bibliografia	Includes bibliographical references: (p. 244-250) and indexes.
Nota di contenuto	Tables and Figures. Glossary. 1. Introduction. 1.1 Overview. 1.2 Examples of Surveys with Nonresponse. 1.3 Properly Handling Nonresponse. 1.4 Single Imputation. 1.5 Multiple Imputation. 1.6 Numerical Example Using Multiple Imputation. 1.7 Guidance for the Reader. 2. Statistical Background. 2.1 Introduction. 2.2 Variables in the Finite Population. 2.3 Probability Distributions and Related Calculations.

2.4 Probability Specifications for Indicator Variables. 2.5 Probability Specifications for (X,Y). 2.6 Bayesian Inference for a Population Quality. 2.7 Interval Estimation. 2.8 Bayesian Procedures for Constructing Interval Estimates, Including Significance Levels and Point Estimates. 2.9 Evaluating the Performance of Procedures. 2.10 Similarity of Bayesian and Randomization-Based Inferences in Many Practical Cases. 3. Underlying Bayesian Theory. 3.1 Introduction and Summary of Repeated-Imputation Inferences. 3.2 Key Results for Analysis When the Multiple Imputations are Repeated Draws from the Posterior Distribution of the Missing Values. 3.3 Inference for Scalar Estimands from a Modest Number of Repeated Completed-Data Means and Variances. 3.4 Significance Levels for Multicomponent Estimands from a Modest Number of Repeated Completed-Data Means and Variance-Covariance Matrices. 3.5 Significance Levels from Repeated Completed-Data Significance Levels. 3.6 Relating the Completed-Data and Completed-Data Posterior Distributions When the Sampling Mechanism is Ignorable. 4. Randomization-Based Evaluations. 4.1 Introduction. 4.2 General Conditions for the Randomization-Validity of Infinite- m Repeated-Imputation Inferences. 4.3Examples of Proper and Improper Imputation Methods in a Simple Case with Ignorable Nonresponse. 4.4 Further Discussion of Proper Imputation Methods. 4.5 The Asymptotic Distibution of (&Qmacr; m ,Ū m ,B m) for Proper Imputation Methods. 4.6 Evaluations of Finite- m Inferences with Scalar Estimands. 4.7 Evaluation of Significance Levels from the Moment-Based Statistics D m and &Dtilde; m with Multicomponent Estimands. 4.8 Evaluation of Significance Levels Based on Repeated Significance Levels. 5. Procedures with Ignorable Nonresponse. 5.1 Introduction. 5.2 Creating Imputed Values under an Explicit Model. 5.3 Some Explicit Imputation Models with Univariate Y I and Covariates. 5.4 Monotone Patterns of Missingness in Multivariate Y I . 5.5 Missing Social Security Benefits in the Current Population Survey. 5.6 Beyond Monotone Missingness. 6. Procedures with Nonignorable Nonresponse. 6.1 Introduction. 6.2 Nonignorable Nonresponse with Univariate Y I and No X I . 6.3 Formal Tasks with Nonignorable Nonresponse. 6.4 Illustrating Mixture Modeling Using Educational Testing Service Data. 6.5 Illustrating Selection Modeling Using CPS Data. 6.6 Extensions to Surveys with Follow-Ups. 6.7 Follow-Up Response in a Survey of Drinking Behavior Among Men of Retirement Age. References. Author Index. Subject Index. Appendix I. Report Written for the Social Security Administration in 1977. Appendix II. Report Written for the Census Bureau in 1983.

Sommario/riassunto

This title demonstrates how nonresponse in sample surveys and censuses can be handled by replacing each missing value with two or more multiple imputations. It clearly illustrates the advantages of modern computing to handle such key surveys, and demonstrates the benefit of this statistical technique.

2. Record Nr. UNINA9910973579103321

Titolo	Artificial intelligence in manufacturing research / / J. Paulo Davim, editor
Pubbl/distr/stampa	New York, : Nova Science Publishers, Inc., c2010
ISBN	1-61761-564-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (194 p.)
Collana	Material and manufacturing technology series
Altri autori (Persone)	DavimJ. Paulo
Disciplina	670.285/63
Soggetti	Manufacturing processes - Automation Manufacturing processes - Research Computer integrated manufacturing systems Artificial intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Application of neural networks and fuzzy sets to machining and metal forming / U. S Dixit -- Multi-objective optimization of multi-pas milling process parameters using artificial bee colony algorithm / R. Venkata Rao and P. J. Pawar -- Optimization of abrasive flow machining process parameters using particle swarm optimization and simulated annealing algorithms / P. J. Pawar, R. Venkata Rao and J. P. Davim -- Study of effects of process parameters on burr Height in drilling of AISI 316 stainless steel using artificial neural network model / V. N. Gaitonde, S. R. Karnik and J. Paulo Davim -- Artificial neural network modeling of surface quality characteristics in abrasive water jet machining of trip steel sheet / N. M. Vaxevanidis, A. Markopoulos and G. Petropoulos -- Multi-objective optimisation of cutting parameters for drilling aluminium AA1050 / Ramon Quiza and J. Paulo Davim -- Application of fuzzy logic in manufacturing: a study on modeling of cutting force in turning GFRP composites / K. Palanikumar and J. Paulo Davim -- Flank wear detection with AW signal and FNN during turning of A1/15 Vol%Sic-MMC / Alakesh Manna -- Integration of product development process using STEP and PDM / S. W. Xie and W. L. Chen.
Sommario/riassunto	Artificial intelligence is a sub-field of computer science concerned with understanding the nature of intelligence and constructing computer

systems capable of intelligent action. This book aims to provide the research and review studies on artificial intelligence in manufacturing.