

The Problem of Multiple Comparisons

Mitigating the Problem of Multiple Comparisons

Two-step approach:

1. Test for overall significance using a technique called "Analysis of Variance"
2. Do post hoc comparison on individual groups

Multiple Comparisons

Larry E. Toothaker



Multiple Comparisons:

Multiple Comparisons Using R Frank Bretz, Torsten Hothorn, Peter Westfall, 2016-04-19 Adopting a unifying theme based on maximum statistics *Multiple Comparisons Using R* describes the common underlying theory of multiple comparison procedures through numerous examples It also presents a detailed description of available software implementations in R The R packages and source code for the analyses are available at <http://CRAN.R-project.org>

Multiple Comparisons Jason Hsu, 1996-02-01 *Multiple Comparisons* introduces simultaneous statistical inference and covers the theory and techniques for all pairwise comparisons multiple comparisons with the best and multiple comparisons with a control The author describes confidence intervals methods and stepwise exposes abuses and misconceptions and guides readers to the correct method for each problem Discussions also include the connections with bioequivalence drug stability and toxicity studies Real data sets analyzed by computer software packages illustrate the applications presented

Multiple Comparisons Alan J. Klockars, Gilbert Sax, 1986-09 Describes the most important methods used to investigate differences between levels of an independent variable within an experimental design Readers will learn not only how to conduct multiple comparisons in experimental designs but also how to better understand and evaluate published research A highly readable introduction to multiple comparison methods which demands little from its reader in the way of background other than some familiarity with analysis of variance

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Multiple Comparison Procedures Larry E. Toothaker, 1993 If you conduct research with more than two groups and want to find out if they are significantly different when compared two at a time then you need *Multiple Comparison Procedures* Using examples to illustrate major concepts this concise volume is your guide to multiple comparisons Toothaker thoroughly explains such essential issues as planned vs post hoc comparisons stepwise vs simultaneous test procedures types of error rate unequal sample sizes and variances and interaction tests vs cell mean tests

Multiple Comparisons and Multiple Tests Using SAS, Second Edition Peter H. Westfall, Randall D. Tobias, Russell D. Wolfinger, 2011 New and extensively updated for SAS 9 and later this work provides cutting edge methods specialized macros and proven best bet procedures The book also discusses the pitfalls and advantages of various methods thereby helping readers to decide which is the most appropriate for their purposes 644 pp Pub 7 11

Handbook of Multiple Comparisons Xinping Cui, Thorsten Dickhaus, Ying Ding, Jason C. Hsu, 2021-11-17 Written by experts that include originators of some key ideas chapters in the *Handbook of Multiple Testing* cover multiple comparison problems big and small with guidance toward error rate control and insights on how principles developed earlier can be applied to current and emerging problems Some highlights of the coverages are as follows Error rate control is useful for

controlling the incorrect decision rate Chapter 1 introduces Tukey's original multiple comparison error rates and point to how they have been applied and adapted to modern multiple comparison problems as discussed in the later chapters Principles endure While the closed testing principle is more familiar Chapter 4 shows the partitioning principle can derive confidence sets for multiple tests which may become important as the profession goes beyond making decisions based on p values Multiple comparisons of treatment efficacy often involve multiple doses and endpoints Chapter 12 on multiple endpoints explains how different choices of endpoint types lead to different multiplicity adjustment strategies while Chapter 11 on the MCP Mod approach is particularly useful for dose finding To assess efficacy in clinical trials with multiple doses and multiple endpoints the reader can see the traditional approach in Chapter 2 the Graphical approach in Chapter 5 and the multivariate approach in Chapter 3 Personalized precision medicine based on targeted therapies already a reality naturally leads to analysis of efficacy in subgroups Chapter 13 draws attention to subtle logical issues in inferences on subgroups and their mixtures with a principled solution that resolves these issues This chapter has implication toward meeting the ICH E9 R1 Estimands requirement Besides the mere multiple testing methodology itself the handbook also covers related topics like the statistical task of model selection in Chapter 7 or the estimation of the proportion of true null hypotheses or in other words the signal prevalence in Chapter 8 It also contains decision theoretic considerations regarding the admissibility of multiple tests in Chapter 6 The issue of selected inference is addressed in Chapter 9 Comparison of responses can involve millions of voxels in medical imaging or SNPs in genome wide association studies GWAS Chapter 14 and Chapter 15 provide state of the art methods for large scale simultaneous inference in these settings

Multiple Comparison Procedures Yosef Hochberg, Ajit C. Tamhane, 1987-10-05 Offering a balanced up to date view of multiple comparison procedures this book refutes the belief held by some statisticians that such procedures have no place in data analysis With equal emphasis on theory and applications it establishes the advantages of multiple comparison techniques in reducing error rates and in ensuring the validity of statistical inferences Provides detailed descriptions of the derivation and implementation of a variety of procedures paying particular attention to classical approaches and confidence estimation procedures Also discusses the benefits and drawbacks of other methods Numerous examples and tables for implementing procedures are included making this work both practical and informative

Pairwise Multiple Comparisons Taka-aki Shiraishi, Hiroshi Sugiura, Shin-ichi Matsuda, 2019-09-30 This book focuses on all pairwise multiple comparisons of means in multi sample models introducing closed testing procedures based on maximum absolute values of some two sample t test statistics and on F test statistics in homoscedastic multi sample models It shows that 1 the multi step procedures are more powerful than single step procedures and the Ryan Einot Gabriel Welsh tests and 2 the confidence regions induced by the multi step procedures are equivalent to simultaneous confidence intervals Next it describes the multi step test procedure in heteroscedastic multi sample models which is superior to the single step Games Howell procedure In the context of simple ordered restrictions of means the

authors also discuss closed testing procedures based on maximum values of two sample one sided t test statistics and based on Bartholomew's statistics Furthermore the book presents distribution free procedures and describes simulation studies performed under the null hypothesis and some alternative hypotheses Although single step multiple comparison procedures are generally used the closed testing procedures described are more powerful than the single step procedures In order to execute the multiple comparison procedures the upper 100 percentiles of the complicated distributions are required Classical integral formulas such as Simpson's rule and the Gaussian rule have been used for the calculation of the integral transform that appears in statistical calculations However these formulas are not effective for the complicated distribution As such the authors introduce the sinc method which is optimal in terms of accuracy and computational cost

Multiple Comparisons for Researchers Larry E. Toothaker, 1991-08-27 Through clear exposition and step by step procedures Toothaker describes all the most important multiple comparison procedures along with relevant concepts such as error rate power robustness and coverage of two way ANOVA including the controversy on cell mean versus tests on interaction effects The book also includes samples of multiple comparison programs in SAS and SPSS

A Class of Nonparametric Multiple Comparisons Eugene James Harner, 1972

Recent Developments in Multiple Comparison Procedures Yoav Benjamini, Frank Bretz, Sanat K. Sarkar, 2004

Multiple Comparisons by Multiple Linear Regression John Delane Williams, 1976

From Cell Physiology to Emerging Brain Functions Philippe Isopé, Lisa Mapelli, Marylka Yoe Uusisaari, Alexander Tang, 2020-09-11 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

Distribution-free Multiple Comparisons Peter Nemenyi, 1963

Multiple Comparisons, Selection and Applications in Biometry Hoppe, 2021-10-01 Aims to provide in depth descriptions of the latest developments in multiple comparison methods and selection procedures while emphasizing biometry This text is published in honour of the 70th birthday of Charles W Dunnett a pioneer in statistical methodology

Multiple Comparisons for Researchers Larry E. Toothaker, Through clear exposition and step by step procedures Toothaker describes all the most important multiple comparison procedures along with relevant concepts such as error rate power robustness and coverage of two way ANOVA including the controversy on cell mean versus tests on interaction effects The book also includes samples of multiple comparison programs in SAS and SPSS

Multiple Comparison Procedures Martin A. Hamilton, 1965

An Author and Permuted Title Index to Selected Statistical Journals Brian L. Joiner, 1970 All articles notes queries corrigenda and obituaries appearing in the following journals during the indicated years are indexed Annals of mathematical statistics 1961

1969 Biometrics 1965 1969 3 Biometrics 1951 1969 Journal of the American Statistical Association 1956 1969 Journal of the
Royal Statistical Society Series B 1954 1969 2 South African statistical journal 1967 1969 2 Technometrics 1959 1969 p iv
NBS Special Publication ,1970

Reviewing **Multiple Comparisons**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Multiple Comparisons**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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