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August 29, 2023

References

Cochran: The χ^2 test of goodness of fit

Cochran-1952

William G. Cochran. "The χ^2 test of goodness of fit". In: The Annals of Mathematical Statistics 23.3 (Sept. 1952), pp. 315–345. DOI: 10.1214/aoms/1177729380.

Abstract: This paper contains an expository discussion of the chi square test of goodness of fit, intended for the student and user of statistical theory rather than for the expert. Part I describes the historical development of the distribution theory on which the test rests. Research bearing on the practical application of the test–in particular on the minimum expected number per class and the construction of classes–is discussed in Part II. Some varied opinions about the extent to which the test actually is useful to the scientist are presented in Part III. Part IV outlines a number of tests that have been proposed as substitutes for the chi square test (the ω^2 test, the smooth test, the likelihood ratio test) and Part V a number of supplementary tests (the run test, tests based on low moments, subdivision of chi square into components).