

Einladung zum ZeSOB Kolloquium

Am Montag, 9. Mai 2022, um 16:30 s.t. spricht Herr

Prof. Dr. Michael Massmann

(WHU – Otto Beisheim School of Management und Vrije Universiteit Amsterdam)

über

Estimation of and inference on a vector of proportions, with jointly increasing population and sample size

This paper proposes a method for deriving the joint asymptotic distribution of sample proportions when the population and sample size increase jointly to infinity. The joint distribution of the sample proportions is derived by reducing the multi-variate to a univariate problem and applying the Cramér-Wold device. Knowing the asymptotic distribution we are in a position to conduct inference on linear or non-linear functions of the population proportions such as a ratio or the log-odds. We motivate and develop our method by means of a topical epidemiological application, namely the infection fatality rate of a virus such as SARS-CoV-2. We demonstrate that our method can be extended to more general settings of interest.

Der Vortrag findet statt am Montag, 9. Mai 2022, um 16:30 Uhr s.t. im Seminarraum des KKS an der Universität Bremen, Linzer Straße 4, 28359 Bremen.

Alle Interessierten sind herzlich willkommen!

(Einladungsvorschlag von Prof. Dr. Werner Brannath)