

Statistical Modelling of Extremes with Distributions of Fréchet and Gumbel: Parameter Estimation and Demonstration of Meteorological Applications

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Abstract: The estimation of the Cumulative Distribution Function (CDF) of data sets of random variables is a fundamental goal in the statistical modelling of extreme natural and technological accidents. Various geophysical events such as drought, floods, avalanches and heavy precipitation are a prerequisite for serious damage and economic losses, and therefore the comprehensive knowledge of their risk of occurrence, repetition periods and return levels is crucial for the planning and elaboration of mitigation strategies. The paper describes step-by-step the derivation of the parameters of the Fréchet and Gumbel CDFs, which form together with the Weibull one the Generalized Extreme Value (GEV) distribution family and are widely used for statistical modelling of extreme events. Two methods for estimation of the CDF-parameters are considered: least-square estimation and maximum-likelihood estimation. The developed and freely-available source code, written in FORTRAN 90/95, enhances the practical value of the presented work. The possibilities of the proposed approach for climatological applications are demonstrated by examples with time series of point measurements and gridded data sets.

Keywords: Fréchet and Gumbel distribution, CDF-parameters, Least-square estimation, Maximum-likelihood estimation, Free source code.

Introduction

Estimating the type and parameters of the cumulative distribution function (CDF) of data set of random variables is a fundamental goal in many fields in which the analysts are interested in estimating the risk of occurrence of a particular event, for example, the probability of a catastrophic accident (drought, floods, avalanche, breakdown of technological structures, etc.).

Due to the major damage and the consequent social and economic effects, the precipitation and temperature extremes have received lots of attention from both governments and the public. Understanding of whether and how the frequency and magnitude of these extremes have changed during the past several decades is not only the focus in hydrological, meteorological, climatic, and the related studies, but also a crucial issue for the management of the associated risks. Probability distribution models are useful tools for the statistical description of heavy precipitation and extreme high/low temperatures. However, how to choose an appropriate model for a specific study is still a matter of debate [19]. Many kinds of probability distributions are available to investigate the climate extremes and, consequently, a significant number of publications are dedicated to the estimation of their appropriateness for a description of the historical frequency and the spatio-temporal variations of extreme events over the world (for a comprehensive review see [20] and the references therein). Studies show that the applicability of different probability distributions depends on the spatial and temporal differences in the considered domain. Gene-

Statistical Extremes And Applications

E. J. Gumbel



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Statistics of Extremes Jan Beirlant, Yuri Goegebeur, Johan Segers, Jozef L. Teugels, 2006-03-17 Research in the statistical analysis of extreme values has flourished over the past decade new probability models inference and data analysis techniques have been introduced and new application areas have been explored Statistics of Extremes comprehensively covers a wide range of models and application areas including risk and insurance a major area of interest and relevance to extreme value theory Case studies are introduced providing a good balance of theory and application of each model discussed incorporating many illustrated examples and plots of data The last part of the book covers some interesting advanced topics including time series regression multivariate and Bayesian modelling of extremes the use of which has huge potential Statistical Extremes and Applications J. Tiago de Oliveira, 1984-09-30 The first references to statistical extremes may perhaps be found in the Genesis The Bible vol I the largest age of Methu selah and the concrete applications faced by Noah the long rain the large flood the structural safety of the ark But as the pre history of the area can be considered to last to the first quarter of our century we can say that Statistical Extremes emerged in the last half century It began with the paper by Dodd in 1923 followed quickly by the papers of Frechet in 1927 and Fisher and Tippet in 1928 after by the papers by de Finetti in 1932 by Gumbel in 1935 and by von Mises in 1936 to cite the more relevant the first complete frame in what regards probabilistic problems is due to Gnedenko in 1943 And by that time Extremes begin to explode not only in what regards applications floods breaking strength of materials gusts of wind etc but also in areas going from Probability to Stochastic Processes from Multivariate Structures to Statistical Decision The history after the first essential steps can't be written in few pages the narrow and shallow stream gained momentum and is now a huge river enlarging at every moment and flooding the margins Statistical Extremes is thus a clear cut field of Probability and Statistics and a new exploding area for research *Statistical Extremes and Applications* J. Tiago de Oliveira, 2013-04-17 The first references to statistical extremes may perhaps be found in the Genesis The Bible vol I the largest age of Methu selah and the concrete applications faced by Noah the long rain the large flood the structural safety of the ark But as the pre history of the area can be considered to last to the first quarter of our century we can say that Statistical Extremes emerged in the last half century It began with the paper by Dodd in 1923 followed quickly by the papers of Frechet in 1927 and Fisher and Tippet in 1928 after by the papers by de Finetti in 1932 by Gumbel in 1935 and by von Mises in 1936 to cite the more relevant the first complete frame in what regards probabilistic problems is due to Gnedenko in 1943 And by that time Extremes begin to explode not only in what regards applications floods breaking strength of materials gusts of wind etc but also in areas going from Probability to Stochastic Processes from Multivariate Structures to Statistical Decision The history after the first essential steps can't be written in few pages the narrow and shallow stream gained momentum and is now a huge river enlarging at every moment and flooding the margins Statistical Extremes is thus a clear cut field of Probability and Statistics and a new exploding area for research

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