TAILS AND PROBABILITIES FOR P-OUTLIERS

Pavlina K. Jordanova

Faculty of Mathematics and Informatics, Konstantin Preslavsky University of Shumen, 115 "Universitetska" str., 9712 Shumen, Bulgaria.

e-mail: pavlina_kj@abv.bg

Abstract. The task for a general and useful classification of the heaviness of the tails of probability distributions still has no satisfactory solution. Due to lack of information outside the range of the data the tails of the distribution should be described via many characteristics. Index of regular variation is a good characteristic, but it puts too many distributions with very different tail behavior in one and the same class. One can consider for example $Pareto(\alpha)$, $Fr\acute{e}chet(\alpha)$ and $Pareto(\alpha)$ with one and the same fixed parameter $\alpha > 0$. The main disadvantage of $Pareto(\alpha)$ and $Pareto(\alpha)$ and $Pareto(\alpha)$ and $Pareto(\alpha)$ with one and the same fixed parameter $Pareto(\alpha)$ and $Pareto(\alpha)$ and $Pareto(\alpha)$ and $Pareto(\alpha)$ and $Pareto(\alpha)$ with one and the same fixed parameter $Pareto(\alpha)$ and $Pareto(\alpha)$ and $Pareto(\alpha)$ and $Pareto(\alpha)$ and $Pareto(\alpha)$ with one and the same fixed parameter $Pareto(\alpha)$ and $Pareto(\alpha)$ and

At what extent we can observe "unexpected" values?