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Income inequality in Romania: the exponential-Pareto distribution

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- 1) A detailed description of the income distribution in Romania in 2013 is presented, using a complete data set of individual personal incomes.
- 2) The applicability of a parametric model, exponential-Pareto model, to describe the income distribution, is tested, and found to give a good qualitative representation for the data.
- 3) The high incomes distribution can be well described by a Pareto distribution with exponent  $\alpha=2.53$ . A goodness of fit analysis is presented using a Kolmogorov-Smirnov statistical test, recently proposed by Clauset, Shalizi and Newman.
- 4) A model for income under-reporting is proposed and estimated.

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