Mixture Lorenz Curves. Three new models

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Abstract

The Lorenz curve is one of the most investigated and also significant tool in the study of distribution and inequality of income. The main difficulty in finding a good analytical form is the lack of fitting on some intervals, especially in the tail of the function. Mixture parametric approach may overdue these problematical issues by introducing better constraints.
In this paper, three new mixture Lorenz Curves are generated from initial Lorenz Curve families. In order to analyze the inequality in the income distribution, for the third proposed curve the Gini indexes are obtained.

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