

Quantile Smoothing Splines: Application on Productivity of Enterprises

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Abstract : In this paper, we have examined the factors that affect the productivity of Turkey's Top 500 Industrial Enterprises in 2014. The labor productivity of enterprises is taken as an indicator of productivity of industrial enterprises. When the relationships between some financial ratios and labor productivity, it is seen that there is a nonparametric relationship between labor productivity and return on sales. In addition, the distribution of labor productivity of enterprises is right-skewed. If the dependent distribution is skewed, the quantile regression is more suitable for this data. Hence, the nonparametric relationship between labor productivity and return on sales by quantile smoothing splines.

Keywords : quantile regression, smoothing spline, labor productivity, financial ratios

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