Determinants of the presidential vote: spatial analysis of the general elections in Brazil from 1994 to 2014

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Abstract: *Voting is one of the main resources for representative elections, and political decision-making, within a democratic system. So, seeking to understand the factors that determine it has been the subject of research in the agenda of scholars from different areas, who holds in common the use of statistical resources to explain the characteristics of this phenomenon. Thus, the present paper aimed to present the spatialization of the proportion of the votes received by the PT and PSDB candidates to the presidency of the Republic, by Brazilian municipality, in the first round in the general elections of 1998, 2002, 2006, 2010 and 2014. For this purpose, we used Exploratory Spatial Data Analysis(ESDA), which allowed us to verify the existence of spatial dependence in our variables of interest. In addition, for the year 2010 a Beta regression model was adjusted in order to verify some of the determinants of the vote, in the Workers' Party (PT). Data from this study were obtained from the official directories of the TSE, the IBGE and the 2010 Census.*

Keywords: Vote, PT, PSDB, Spatial Statistic, Beta Regression.

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