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Eleições e Representação Política

**WHEN THE WINNER COMES THIRD: SIMULATING CANDIDATES'  
WINNABILITY WITHIN ACCURATE POLLS**

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# WHEN THE WINNER COMES THIRD: SIMULATING CANDIDATES' WINNABILITY WITHIN ACCURATE POLLS

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Resumo do trabalho:

In this paper, we present a simulation strategy based on the Dirichlet-Multinomial distribution to track changes in voter support in complex settings, characterized by scarce and inaccurate polls, high number of candidates, and a diversity of sampling methods. We show this by taking polling data collected over the mayoral election in the city of São Paulo, Brazil, to generate daily estimates for the viable coalitions presented by the candidates: José Serra, Celso Russomanno e Fernando Haddad. After accounting for the time fluctuations and each pollster bias, the estimates are modelled to track the candidates' probabilities of advancing in the run-off election.

Palavras-chave: Opinion polls, Simulations, Dirichlet distribution.

This paper has been accepted to publication. When published, it will be available at: Italian Journal of Applied Statistics <http://sa-ijas.stat.unipd.it>