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Toward a 50%-majority equilibrium when voters are symmetrically distributed.

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Abstract

Consider a two-dimensional spatial voting model. A finite number m of voters are randomly drawn from a (weakly) symmetric distribution centered at O. We compute the exact probabilities of all possible Simpson-Kramer scores of O. The computations are independent of the shape of the distribution. The resulting expected score of O is used as a proxy for an upper-bound to the min-max score.

Keywords: Spatial voting, super majority, random point set, stochastic geometry.

JEL Codes: D70, D71

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