



Universität
Basel

Research Project

Condorcet jury theorems

Project funded by own resources

Project title Condorcet jury theorems

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Organisation / Research unit

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The partial order of majorization is omnipresent in applied mathematics, statistics and various fields of application. It suggests comparing two given vectors, for example representing the incomes of two populations, by comparing the partial sums of their ordered entries. Among other applications, majorization can be used to study probability inequalities for sums of heterogeneous Bernoulli variables. These arise in the context of the 'Condorcet jury theorem', a political science theorem about the relative probability of a given group of individuals arriving at a correct decision. This project investigates the role of majorization inequalities in Condorcet jury theorems for heterogeneous juries.

Keywords Condorcet jury theorem, majorization, majority voting

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