

Contest Theory Incentive Mechanisms And Ranking Methods

Instant-runoff voting In each round, the candidate with the fewest first-preferences (among the remaining candidates) is eliminated. instant-runoff voting is also sometimes vulnerable to a paradoxical strategy of ranking a candidate Instant-runoff voting (IRV; US: ranked-choice voting (RCV), AU: preferential voting, UK/NZ: alternative vote) is a single-winner ranked voting election system where one or more eliminations are used to simulate multiple runoff elections. have an incentive to use the compromising strategy. This continues until only one candidate is left. Instant runoff falls under the plurality-with-elimination family of voting methods, and is thus closely related to rules like the two-round runoff system 1b5ba80764

Crowdsourcing software development It is an open call for participation in any task of software development, including documentation, design, coding and testing. But in software crowdsourcing, all the tasks can be assigned to or are addressed by members of the general public. The crowdsourcing can be competitive Crowdsourcing software development or software crowdsourcing is an emerging area of software engineering. published, discovered, composed, customized, simulated, and tested; 6) formal methods: formal methods can be crowdsourced. Individuals and teams may also participate in crowdsourcing contests. These tasks are normally conducted by either members of a software enterprise or people contracted by the enterprise 1b5ba80764

Arrow's impossibility theorem Such a mechanism of study can Arrow's impossibility theorem is a key result in social choice theory showing that no ranked-choice procedure for group decision-making can satisfy the requirements of rational choice. Specifically, Arrow showed no such rule can satisfy independence of irrelevant alternatives, the principle that a choice between two alternatives A and B should not depend on the quality of some third, unrelated option, C. social choice theory, a branch of welfare economics studying mechanisms to aggregate preferences and beliefs across a society 1b5ba80764

Voting criteria (2011). Green-Armytage, J. instant-runoff voting having exit incentive despite being clone independent. "Four Condorcet-Hare hybrid methods for single-winner elections" There are a number of different criteria which can be used for voting systems in an election, including the following 1b5ba80764

In terms of norms and identities, it is hypothesized that democracies are more dovish in their interactions with other democracies, and that... 1b5ba80764

Democratic peace theory Different advocates of this theory suggest that several factors are responsible for motivating peace between democratic states. Proponents of democratic peace theory argue that both electoral and republican forms of democracy are hesitant to engage in armed conflict with other identified Proponents of democratic peace theory argue that both electoral and republican forms of democracy are hesitant to engage in armed conflict with other identified democracies. Individual theorists maintain "monadic" forms of this theory (democracies are in general more peaceful in their international relations); "dyadic" forms of this theory (democracies do not go to war with other democracies); and "systemic" forms of this theory (more democratic states in the international system makes the international system more peaceful) 1b5ba80764

The Borda count is well-known in social choice theory both for its pleasant theoretical properties and its ease of manipulation. In the absence of strategic voting and strategic nomination, the Borda count tends to elect broadly... 1b5ba80764 The result is often cited in discussions of voting rules, where it shows no ranked voting rule can eliminate the spoiler effect. This result was first shown by the Marquis de Condorcet, whose voting paradox showed the impossibility of logically-consistent majority rule; Arrow's theorem generalizes Condorcet's findings to include non-majoritarian rules like collective leadership or consensus... 1b5ba80764

Milan Vojnovic Vojnovic authored the book Contest Theory: Incentive Mechanisms and Ranking Methods Milan Vojnovic is a professor of data science with the Department of Statistics at the London School of Economics, where he is also director of the MSc Data Science Programme. Massoulie) and the ITC 2001 Best Student Paper Award (with Jean-Yves Le Boudec). Prior to this, he worked as a researcher with Microsoft Research from 2004 to 2016 1b5ba80764

Majority judgment lose. In their 2010 book, Balinski and Laraki demonstrate that the only join-consistent methods are point-summing methods, a slight generalization of score Majority judgment (MJ) is a single-winner voting system proposed in 2010 by Michel Balinski and Rida Laraki. It is a kind of highest median rule, a cardinal voting system that elects the candidate with the highest median rating 1b5ba80764

Condorcet method A candidate with this property, the pairwise champion or beats-all winner, is formally called the Condorcet winner or Pairwise Majority Rule Winner (PMRW). types of tactics used and the frequency of strategic incentive differ in each method. The head-to-head elections need not be done separately; a voter's choice within any given pair can be determined from the ranking. Like all voting methods, Condorcet methods are vulnerable to compromising A Condorcet method (English: ; French: [kɔ̃dɔʁsɛ]) is an election method that elects the candidate who wins a majority of the vote in every head-to-head election against each of the other candidates, whenever there is such a candidate 1b5ba80764

The Borda count has been independently reinvented several times, with the first recorded proposal in 1435 being by Nicholas of Cusa (see History below), but is named after the 18th-century French mathematician and naval engineer Jean-Charles de Borda, who re-devised the system in 1770. 1b5ba80764

Borda count The modified Borda and tournament Borda methods, as well as methods of Borda that do not allow for equal rankings, are well-known for behaving The Borda method or order of merit is a positional voting rule that gives each candidate a number of points equal to the number of candidates ranked below them: the lowest-ranked candidate gets 0 points, the second-lowest gets 1 point, and so on. The candidate with the most points wins. unranked 1b5ba80764

Some elections may not yield a Condorcet winner because voter preferences may be cyclic—that is, it is possible that every

candidate has an opponent that defeats them in a two-candidate contest. The possibility of such cyclic preferences is known as the Condorcet paradox. However... 1b5ba80764 Instant-runoff voting has found some use in national elections in several countries, predominantly in the Anglosphere. It is used to elect members of the Australian House of Representatives and the National Parliament of Papua New Guinea, and to elect... 1b5ba80764 The frequency and severity of spoiler effects depends substantially on the voting method. First-past-the-post voting without winnowing or primary elections is sensitive to spoilers. And so, to a degree, are Instant-runoff or ranked-choice voting (RCV) and the two-round system (TRS). Majority-rule (or Condorcet) methods are only rarely affected by spoilers, which are limited to rare situations called cyclic ties. Rated voting systems are not subject to Arrow's theorem, allowing them to be spoilerproof so long as voters' ratings... 1b5ba80764 He received his Ph.D. degree in Technical Sciences from École Polytechnique Fédérale de Lausanne in 2003, and both M.Sc. and B.Sc. degrees in Electrical Engineering from the University of Split, Croatia, in 1995 and 1998, respectively. He undertook an internship with the Mathematical Research Centre at Bell Labs in 2001. From 2005 to 2014, he was a visiting professor at the University of Split, Croatia. From 2014 to 2016, he was an affiliated lecturer at the Statistical Laboratory, University of Cambridge. 1b5ba80764

Spoiler effect Voting rules that are not affected by spoilers are said to be spoilerproof and satisfy independence of irrelevant alternatives. somewhat common in plurality-runoff methods, rare with majoritarian methods, and impossible for most rated voting methods. In cases where there are many similar In social choice theory and politics, a spoiler effect happens when a losing candidate affects the results of an election simply by participating 1b5ba80764

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