

Contents

1. Choice Theory and Constitutional Design	1
1.1 Theories and Models	2
1.2 Applying Social Choice Theory	4
1.3 Varying Assumptions	8
2. Chaotic Behavior of Models	13
2.1 The U.S. Presidential Elections	13
2.2 Referendum Paradox and the Properties of Majority Rule	16
2.3 How Chaotic Can It Get?	22
3. Results Based on Standard Model	29
3.1 Voting Procedures	29
3.2 Performance Criteria	35
3.3 Chaos, Strategy and Self Correction	37
4. Aggregating Voting Probabilities and Judgments	45
4.1 Avoiding Arrow's Theorem via Average Rule	45
4.2 Condorcet's Jury Theorem	49
4.3 Relaxing the Independence Assumption	53
4.4 Optimal Jury Decision Making	56
4.5 Thought Experiment: Council of Ministers as a Jury ...	59
5. Condorcet's Rule and Preference Proximity	65
5.1 Condorcet's Rule	65
5.2 Measuring Preference Similarity	71
5.3 Preference Proximity and Other Desiderata	75
5.4 Ranking and Choice Rules	79
5.5 Kemeny, Dodgson and Slater	83

6. Responses to Changes in Voter Opinions	91
6.1 Monotonicity, Maskin-Monotonicity and No-Show Paradox.....	92
6.2 The Strong No-Show Paradox.....	96
6.3 Qualified Majorities and No-Show Paradox	98
6.4 Monotonicity Violations of Voting Systems	100
6.5 Preference Truncation Paradox	105
6.6 Preference Misrepresentation	110
7. Mos Docendi Geometricus	117
7.1 The British Parliamentary Elections of 2001	117
7.2 Critique of Condorcet's Intuition	123
7.3 Profile Decomposition	126
7.4 Berlin vs. Bonn Vote Revisited	132
8. Conclusions	135
List of Figures	139
List of Tables	141
Bibliography.....	143
Author Index.....	149
Subject Index	153



<http://www.springer.com/978-3-540-43352-1>

Voting Procedures under Uncertainty

Nurmi, H.

2002, X, 156 p. 1 illus., Hardcover

ISBN: 978-3-540-43352-1