VOLUME 48, NUMBERS 9-10

2008

CONTENTS

Special Issue: Mathematical Modeling of Voting Systems and Elections: Theory and Applications

Guest Editor: Alexander S. Belenky

1295 From the editor: Systems studies of voting systems and A.S. Belenky

elections

1. The mathematics of voting and mathematical models for studying voting rules

J. Adams and A.K. Mayer A.S. Belenky	1298 1308	Condorcet efficiency with adaptive parties in a spatial model A modified "winner-take-all" rule for awarding state electoral votes in US presidential elections and a game model for its analysis
D. Berend and Y. Chernyavsky	1326	Ranking of decision rules with random power distribution
D.G. Saari	1335	Complexity and the geometry of voting
W.S. Zwicker	1357	Consistency without neutrality in voting rules: When is a vote an average?
W.S. Zwicker	1374	A characterization of the rational mean neat voting rules

2. Mathematical models for studying elections

F. Aleskerov and H. Nurmi	1385	A method for finding patterns of party support and electoral change: An analysis of British general and Finnish municipal elections
J. Richard Gott III and	1396	Median statistics in polling

3. Mathematical models for studying political districting and representation

J. Richard Gott III and

W.N. Colley

S. Ansolabehere and W. Leblanc	1409	A spatial model of the relationship between seats and votes
A. Karpov	1421	Measurement of disproportionality in proportional representation systems
J. Martínez-Aroza and V. Ramírez-González	1439	Several methods for degressively proportional allotments. A case study
I. McLean	1446	Don't let the lawyers do the math: Some problems of legislative districting in the UK and the USA
C. Puppe and A. Tasnádi	1455	A computational approach to unbiased districting

[continued on inside back cover

Indexed in: CABS, Cam. Sci. Abstr., Curr. Cont. CompuMath., Curr. Cont. SCISEARCH Data., Math. Cit. Ind., Math. R., Oper. Res. Manage. Sci., Res. Alert, Zbl. Math. Also covered in the abstract and citation database Scopus®. Full text available on Science Direct®.



ISSN 0895-7177

MCMOEG 48 (9–10) 1295–1676 (2008)



MATHEMATICAL AND COMPUTER MODELLING

VOLUME 48, NUMBERS 9-10

2008

CONTENTS—continued from outside back cover]

V. Ramírez, F. Pukelsheim, A. Palomares and J. Martínez	1461	A bi-proportional method applied to the Spanish Congress
F. Ricca, A. Scozzari and B. Simeone	1468	Weighted Voronoi region algorithms for political districting

4. Mathematical models for studying voting behavior

D. Diermeier and J.A. Van Mieghem	1478	Coordination and turnout in large elections
D. Diermeier and J.A. Van Mieghem	1497	Voting with your pocketbook — a stochastic model of consumer boycotts
M.J. Hinich and M.C. Munger	1510	The dynamics of issue introduction: A model based on the politics of ideology
A. Vasin and D. Stepanov A.V. Zakharov	1519 1527	Endogenous formation of political parties A model of electoral competition with abstaining voters

5. Mathematical models for studying political institutions

1554	Actual voting power of the IMF members based on their political-economic integration
1570	Dynamics of the presidential veto: A computational analysis
1590	The legislative calendar
1602	Evaluation of Banzhaf index with restrictions on coalitions formation
	1570 1590

6. Mathematical models for studying security of votes in elections

CI. Fan and WZ. Sun	1611	An efficient multi-receipt mechanism for uncoercible
		anonymous electronic voting
B. Hosp and P.L. Vora	1628	An information-theoretic model of voting systems
P.Y.A. Ryan	1646	Prêt à Voter with Paillier encryption

7. Recently published and upcoming books on voting systems and elections

1663	Forthcoming: How America Chooses Its Presidents, Second Edition, by Alexander S. Belenky
1666	Mathematics and democracy: Designing better voting and fair-division procedures
1671 1674	Disposing dictators, demystifying voting paradoxes Book review
	1666 1671



ISSN 0895-7177

MCMOEG 48 (9-10) 1295-1676 (2008)