Professor Fuad Aleskerov

Mathematical modelling of

* Individual and social decision making,
* Power distribution in groups (in particular, in parliaments and international organizations),
* Polarization in communities,
* Manipulation in social decision making.

Recent publications in mathematical modelling of political processes

1. Aleskerov F., Avci G., Iacouba V., Turem Z.U. ‘European Union enlargement: power distribution implications of the new institutional arrangements’, European Journal of Political Research, 41, 2002, 379-394
2. Aleskerov F. “Categories of Arrovian Voting Schemes”, in Handbook of Economics 19, Handbook of Social Choice and Welfare, v.1, K.Arrow, A.Sen, K.Suzumura (eds.), Elsevier Science B.V., Amsterdam, 2002, 95-129
3. Aleskerov F., Platonov V. "Disproportionality Indicies for PR Systems", "Reasoned Choices", Essays in Honor of Academy Professor Hannu Nurmi (ed. Matti Wiberg), The Finnish Political Science Association, 2004, 6-20
4. Aleskerov F. “Power indices taking into account agents’ preferences”, in “Mathematics and Democracy” (B.Simeone and F.Pukelsheim, eds.), Springer, Berlin, 2006, 1-18
5. Aleskerov F., Nurmi H. A Method for Finding Patterns of Party Support and Electoral Change: An Analysis of British General and Finnish Municipal Elections, Mathematical and Computer Modelling, 2008, 1225-1253
6. Aleskerov F., Karpov A. A new single transferable vote method and its axiomatic justification, [Social Choice and Welfare](http://link.springer.com/journal/355), March 2013, Volume 40, #3, 771-786
7. Fuad Aleskerov, Manfred J. Holler, Rita Kamalova. Power distribution in the Weimar Reichstag in 1919–1933, Annals of Operations Research. April 2014, Volume 215, Issue 1, pp 25-37.
8. Aleskerov F., Kurapova M., Mescheryakova N., Mironyuk M., Shvydun S. Network approach in the analysis of international conflicts, Political Science, 2016, #4, 111-137 (in Russian)
9. Aleskerov F., Mescheryakova N., Rezyapova A., Shvydun S. An analysis of power of countries in the network of international migration, Political Science, 2016, #4, 137-158 (in Russian)
10. [Aleskerov F., Oleynik V. Multidimensional Polarization Index and its Application to an Analysis of the Russian State Duma (1994–2003). WP7/2016/03. – Moscow: Higher School of Economics Publ. House, 2016. – 52](https://www.hse.ru/data/2016/06/23/1115961443/WP7_2016_03___fff.pdf) p. <https://www.hse.ru/data/2016/06/23/1115961550/WP7_2016_03___fff.pdf> <http://arxiv.org/abs/1608.01351>

Ongoing project – Power of countries taking into account their network (regional and global) interactions