GÁBOR J. SZÉKELY

Selected Publications

BOOKS

12. *The Energy of Data* (with Rizzo, M.L.) Chapman & Hall/CRC: available 2017.

11. *Contests in Higher Mathematics*, Springer, New York, Paperback, 2011, 570 pp.

10. *Paradoxes in the Mathematics of Randomness* (in Hungarian), Typotex, Budapest, 2004. (First Hungarian edition, Muszaki Kiado, Budapest,1982).

9. *Statistics for the 21st Century* (Ed. with C. R. Rao), Dekker, New York, 2000.

8. *Contests in Higher Mathematics*, Springer, Japanese Edition in 5 volumes, 1998-2000.

7. *Contests in Higher Mathematics*, Springer, New York, 1996, 570 pp.

6. *Paradoxes in Probability Theory and Mathematical Statistics*, Reidel-Kluwer, Dordrecht-Boston, Mass. 1986, xii + 250 pp. (New English edition: Springer 2006).

5. *Algebraic Probability Theory* (with I.Z. Ruzsa), Wiley, New York, 251 pp, 1988.

4. *Paradoxa, Klassische und Neue Uberraschungen aus Warscheinlichkeitsrechnung und Matematischer Statistik*, H. Deutsch, Frankfurt am Main, 1990, 240 pp.

3. *Paradosky v teorii veroyathostei i matematicheskoi statistike* (with a Preface by V. V. Sazanov and V.V. Ulyanov), Mir, Moscow, 1990, 240 pp.

2. *Multivariate Statistical Analysis* (in Hungarian, with T.F. Mori), MK, Budapest, 1986.

1. *Paradoxes in Probability Theory and Mathematical Statistics* (in Hungarian), Budapest, Müszaki Kiadó, 1982.

BOOK TRANSLATION

13. Davis, P. and Hersh, R.: *The Mathematical Experience*, Birkhäuser, Boston,
(A matematika élménye), Muszaki Kiado, Budapest, 1984; Typotex, Budapest, 2010.

PAPERS

126. The Energy of Data (with Rizzo, M.L.), *Annual Review of Statistics and Its Applications*, Invited Paper, 2017 (to appear).

125. Partial Distance Correlation, *Proceedings of the 2nd International Conference on Nonparametric Statistics* (with Rizzo, M.L.), Springer (to appear).

124. Fast Computing for Distance Covariance (with Huo, X.), Technometrics, 2016 (to appear).

123. Energy Distance, *WIRES Computational Statistics* (with M. L. Rizzo), Wiley, Volume 8 Issue 1, 27-38. Available online Dec., 2015, doi: 10.1002/wics.1375, 2016.

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121. An analytic generalization of independence and identical distributiveness (with Kagan, A.), Statistics & Probability Letters, 110, 244–248, 2016.

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118. Partial distance correlation with methods for dissimilarities (with Rizzo, M. L.) Ann. Statist. Vol. 42, 6, 2382-2412, 2014.

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105. Characterizations with zero covariances (with E. Seneta), J. Australian Math. Soc., 81, no. 3, 351-361, 2006.

104. A multivariate nonparametric test of independence (with N. Bakirov and M. Rizzo), Journal of Multivariate Analysis 97/8, 1742-1756, 2006.

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81. Identifiability of distributions of independent random variables by linear combinations and moments (with C. R. Rao), Sanhkya A 62/2 (2000), 193-202.

80. How to transform correlated random variables into uncorrelated ones. (with T.F. Mori). Appl. Math. Lett. 13/6 (2000), 31—33.

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PREPRINTS PREPARED FOR PUBLICATION

1. Before Mathematics: Thales and the Ten Commandments

2. The Mean Paradox of Social Choices (with C. Bennett and C. Holland) (ready for submission)

3. Brownian correlation: CLT for stationary sequences

4. Student's t-test for unimodal distributions (with N. K. Bakirov).

5. E-statistics: the energy of statistical samples.

6. Representations by simple functions of uncorrelated random variables (with T. Mori and G. Petruska).

7. 1/2 of a coin: unlikely probabilities.

8. Derivatives of rational powers of matrices with statistical applications (with N. K. Bakirov).

9. On conditional distributions of X+Y given X-Y (with L. Klebanov).

10. Joint characterization of normal and exponential distributions (with L. Klebanov).

DISSERATATIONS, LECTURE NOTES

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