

Publications of Gerzson Kéri (Kéry)

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1. On a theorem of Ramsey, *Matematikai Lapok* 15(1964)204-224 (in Hungarian) [MR0172264 (30 #2484)]
2. On the two-stage programming under uncertainty, *Studia Scientiarum Mathematicarum Hungarica* 5(1970)37-40 [MR0266602 (42 #1505)]
3. A modified stepping-stone algorithm for the transportation problem, *Sigma* 1970, No. 2., 115-125 (in Hungarian)
4. On the minimum value of a quadratic function under linear constraints, *Studia Scientiarum Mathematicarum Hungarica* 6(1971)193-196 [MR0343921 (49 #8661)]
5. A modified stepping-stone algorithm for the transportation problem, *Mathematische Operationsforschung und Statistik* 3(1972)327-331 [MR0437013 (55 #9947)]
6. An examination of nonnegativity and quasiconvexity conditions of quadratic forms on the nonnegative orthant, *Studia Scientiarum Mathematicarum Hungarica* 7(1972)11-20 [MR0314866 (47 #3415)]
7. Linear programming software, *MTA SZTAKI Felhasználói Ismertető* 2 (1973), 28 pp. (in Hungarian) – Co-authors: Komáromi Éva, Strazicky Beáta
8. Report on a supplement for the LP software package REX, *MTA CDC 3300 User Journal* 9(1975)11 (in Hungarian)
9. On a certain class of quadratic forms, *Alkalmazott Matematikai Lapok* 2(1976)395-411 (in Hungarian) [MR0480361 (58 #529)]
10. On a combinatorial tableau filling problem and equivalent variants of it that are connected with various topics, *MTA SZTAKI Közlemények* 19(1978)31-45 (in Hungarian) [MR0472544 (57 #12241)]
11. On the minimization of the general entropy function on a convex set, *Alkalmazott Matematikai Lapok* 4(1978)95-108 (in Hungarian) [MR0565681 (81a:90154)]
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15. Application of a transport model to examine the possible soil pollution of a waste-material depository, *Alkalmazott Matematikai Lapok* 19(1999)169-183 (in Hungarian) – Co-authors: Orsovai Imre, Rapcsák Tamás
16. Modelling of the water quality of the Ráckeve-Soroksár branch of the river Danube by applying multiple criterion decision methods, *Sigma* 30(1999)135-159 (in Hungarian) – Co-authors: Balla Katalin, Németh Endre, Rapcsák Tamás, Sági Zoltán, Tóth Tamás, Verrasztó Zoltán
17. Modelling of ground-water pollution in the area of Nagykáta, *Alkalmazott Matematikai Lapok* 20(2000)61-73 (in Hungarian) – Co-author: Rapcsák Tamás

18. Pollution of the underground water - a computational case study using a transport model, *Journal of Hydroinformatics* 4(2002)255-264 – Co-authors: K. Balla, T. Rapcsák
19. On the covering radius of small codes, *Studia Scientiarum Mathematicarum Hungarica* 40(2003)243-256 – Co-author: P. R. J. Östergård [MR2003005 (2004h:94062), IF: 0.302]
20. On computing the Hamming distance, *Acta Cybernetica* 16(2004)443-449 – Co-author: Á. Kisvölcsy [MR2071411 (2005c:94032)]
21. A minimax problem for set systems, *Matematikai Lapok* 12(2004-2005)20-30 (in Hungarian) – Co-author: Tuza Zsolt [MR2273237 (2007k:05211)]
22. Bounds for covering codes over large alphabets, *Designs, Codes and Cryptography* 37(2005)45-60 – Co-author: P. R. J. Östergård [MR2165041 (2007d:94071), IF: 0.661]
23. Criteria for pairwise comparison matrices, *Sigma* 36(2005)139-148 (in Hungarian)
24. Types of superregular matrices and the number of n -arcs and complete n -arcs in $PG(r, q)$, *Journal of Combinatorial Designs* 14(2006)363-390 and 16(2008)262 [MR2245552 (2007f:51020), IF: 0.757]
25. The number of inequivalent $(2R+3, 7)R$ optimal covering codes, *Journal of Integer Sequences* 9(2006) Article 06.4.7 (electronic), 8 pp. – Co-author: P. R. J. Östergård [MR2268450 (2007m:94208)]
26. On small covering codes in arbitrary mixed Hamming spaces, *Studia Scientiarum Mathematicarum Hungarica* 44(2007)517-534 [MR2361440 (2009a:94061), IF: 0.280]
27. Further results on the covering radius of small codes, *Discrete Mathematics* 307(2007)69-77 – Co-author: P. R. J. Östergård [MR2288624 (2008h:94124), IF: 0.377]
28. The covering radius of extreme binary 2-surjective codes, *Designs, Codes and Cryptography*, 46(2008)191-198 [MR2368993 (2008j:94075), IF: 0.681]
29. On the minimum size of binary codes with length $2R+4$ and covering radius R , *Designs, Codes and Cryptogr.* 48(2008)165-169 – Co-author: P. R. J. Östergård [MR2403447 (2009e:94133), IF: 0.681]
30. Combinatorial problems according to conditions on fitting a constructively defined multivariate gamma distribution to empirical data, *Alkalmazott Matematikai Lapok* 25(2008) 99-117 (in Hungarian) – Co-author: Szántai Tamás [MR2446866 (2010a:60191)]
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32. A coding theoretic application of Zsolt Baranyai's factorization theorem, *Matematikai Lapok*, 16(2010)16-26 (in Hungarian)
33. On qualitatively consistent, transitive and contradictory judgment matrices emerging from multiattribute decision procedures, *CEJOR* 19(2011)215-224 (doi: 10.1007/s10100-010-0138-7)
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34. On the application of linear programming for the stochastic programming system STABIL, in: Seminarbericht Nr. 22, Conference on Programmpakete der Operationsforschung (Vitte, Hiddensee, Germany, October 28 - November 2, 1979) (ed. K. Lommatzsch), *Humboldt Universität*, Berlin, 1979, 39-42
35. On a class of quadratic forms, in: Survey of Mathematical Programming (ed. A. Prékopa), *Akadémiai Kiadó*, Budapest and *North-Holland Publishing Company*, Amsterdam, 1979, 231-247 [MR0580464 (82b:15017)]

36. A tableau filling problem and its possible application to matrix inversion, in: Studies on Mathematical Programming (ed. A. Prékopa), *Akadémiai Kiadó*, Budapest, 1980, 113-117 [MR0588006 (82e:90053)]
37. On the reduction of a bipartite graph to irreducible components, in: Algebraic Methods in Graph Theory (ed. L. Lovász and V. T. Sós), *Akadémiai Kiadó*, Budapest, 1981, 389-398 [MR0642053 (83d:05071)]
38. Procedures for the solution of transportation type problems, in: Operations Research Software Descriptions (Volume 1), Under the organization by the Committee of the Scientific Problems of Computer Science, Working Group No. 7. (ed. A. Prékopa and G. Kéri), *MTA SZTAKI Tanulmányok*, 140 (1983) 133-144 – Co-authors: É. Komáromi, P. Sz. Turchányi
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40. Classification of MDS codes by exhaustive computer search, 6th International Conference on Applied Informatics (Eger, Hungary, January 27 - 31, 2004) (ed. L. Csöke, P. Olajos, P. Szigetváry and T. Tómacs), *Eszterházy Károly Tanárképző Főiskola*, Vol. II, 179-185
41. Binary covering arrays and existentially closed graphs, in: Coding and Cryptography (Zhangjiajie, China, 2009)(eds: Y.M. Chee, C. Li, S. Ling, H. Wang and C. Xing), *Lecture Notes in Computer Science*, Vol. 5557, Springer-Verlag, Berlin (2009), 22-33 – Co-author: C.J. Colbourn
42. Classification Results for Non-Mixed and Mixed Optimal Covering Codes: a Survey, in: 19th International Symposium on Mathematical Theory of Networks and Systems (MTNS 2010), Budapest, Hungary, July 5-9, 2010, 171-176
43. On the Normality of (Non-Mixed and Mixed) Optimal Covering Codes, in: 19th International Symposium on Mathematical Theory of Networks and Systems (MTNS 2010), Budapest, Hungary, July 5-9, 2010, 1819-1821

Internet tables, kept up-to-date

44. Tables for bounds on covering codes, <http://www.sztaki.hu/~keri/codes>, since 2005
45. Tables for n -arcs and lists for complete n -arcs in $PG(r,q)$, <http://www.sztaki.hu/~keri/n-arcs>, since 2007

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46. A version of the simplex method and its application for solving transportation type problems, university doctoral dissertation, Budapest, 1972, 35 pp (in Hungarian)
47. An analysis of the class of copositive matrices and their role in quadratic programming, candidate of science dissertation, Budapest, 1976, 91 pp. (in Hungarian)

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48. Operations research computing techniques I. Linear programming, *Tankönyvkiadó*, Budapest, 1984, 239 pp. (in Hungarian)

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49. The magic cube, *Műszaki Könyvkiadó*, Budapest, 1981, 206 pp. (in Hungarian) – Co-authors: Marx György, Rubik Ernő, Varga Tamás, Vekerdy Tamás
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52. A SIMULA Solution to the magic cube puzzle, *Simula Newsletter* 8(1980)5
53. Games and Mathematics, *Rubik's* 1(1982)10-11 – Co-author: E. Hódi
54. Rotatable world I-IV, *Rubik's* 1(1982)15-19, 2(1982)29-33, 3(1982)40-45 and 4(1982)17-19
55. Carl and his family passing across the ruinous bridge and the coloured boxes, *Asztallap* 10(2002) No. 91, 8-9 (in Hungarian)