

## BECK JÓZSEF cikkei

Könyv: (W.W.L. Chen társszerzővel) *Irregularities of Distribution*, xiv+294pp (Cambridge Tracts in Mathematics **89**, Cambridge University Press, Cambridge, 1987).

1. “A concentration problem in combinatorial number theory”, *Combinatorics, Keszthely, 1976*, 77–90 (Colloquia Math. Soc. János Bolyái, Budapest).
2. “On a combinatorial problem of P. Erdős and L. Lovász”, *Discrete Math.*, **17** (1977), 127–131.
3. “Uniform estimate for the sum of independent random variables with an application to Stein’s lemma”, *Probl. of Control and Information Theory*, **7** (1978), 127–136.
4. (with I. Csiszár) “Medium converse for memoryless channels with arbitrary alphabets”, *Probl. of Control and Information Theory*, **7** (1978), 199–202.
5. “On 3–chromatic hypergraphs”, *Discrete Math.*, **24** (1978), 127–137.
6. “Note to the law of the iterated logarithm”, *Studia Sci. Math. Hungar.*, **13** (1978), 353–359.
7. “The exponential rate of convergence of error for nonparametric regression and decision”, *Probl. of Control and Information Theory*, **8** (1979), 303–311.
8. “A remark on the concentration function of combinatorial number theory”, *Studia Sci. Math. Hungar.*, **14** (1979), 455–459.
9. “A remark concerning arithmetic progressions”, *J. Combinatorial Theory A*, **29** (1980), 376–379.
10. “On a problem of L. Fejes–Toth concerning non–transparent directions”, *Studia Sci. Math. Hungar.*, **15** (1980), 481–485.
11. “On positional games”, *J. Combinatorial Theory A*, **30** (1981), 117–133.
12. (with T. Fiala) “Integer–making theorems”, *Discrete Applied Math.*, **3** (1981), 1–8.
13. “Van der Waerden and Ramsey type games”, *Combinatorica*, **1** (1981), 103–116.
14. “Balancing families of integer sequences”, *Combinatorica*, **1** (1981), 209–216.
15. “Roth’s estimate of discrepancy of integer sequences is nearly sharp”, *Combinatorica*, **1** (1981), 319–325.
16. “Balanced 2–colorings of finite sets in the square  $I^n$ ”, *Combinatorica*, **1** (1981), 327–335.

17. “An application of Lovász Local Lemma: There exists an infinite 01–sequence containing no near identical blocks”, *Finite and Infinite Sets, Eger, 1981*, 103–107 (Colloquia Math. Soc. János Bolyái, Budapest).
18. “Some results and problems in combinatorial discrepancy theory”, *Topics in Classical Number Theory, Budapest, 1981*, 203–218 (Colloquia Math. Soc. János Bolyái, Budapest).
19. “On an imbalance problem of G. Wagner concerning polynomials”, *Studia Sci. Math. Hungar.*, **17** (1982), 417–424.
20. “Remarks on positional games I”, *Acta Math. Acad. Sci. Hungar.*, **40** (1982), 65–71.
21. “On a generalization of Kaplansky’s game”, *Discrete Math.*, **42** (1982), 27–35.
22. “Irregularities of two–colorings of the  $N \times N$  square lattice”, *Combinatorica*, **2** (1982), 111–123.
23. (with L. Csirmaz) “Variations on a game”, *J. Combinatorial Theory A*, **33** (1982), 297–315.
24. “On a geometric problem of Erdős, Sárközy and Szemerédi”, *European J. Combinatorics*, **4** (1983), 1–10.
25. “There is no fast method for finding monochromatic complete subgraphs”, *J. Combinatorial Theory B*, **34** (1983), 58–64.
26. “On size Ramsey numbers of paths, trees and circuits I”, *J. Graph Theory*, **7** (1983), 115–129.
27. “Biased Ramsey type games”, *Studia Sci. Math. Hungar.*, **18** (1983), 287–292.
28. “An upper bound for diagonal Ramsey numbers”, *Studia Sci. Math. Hungar.*, **18** (1983), 401–406.
29. “On the lattice property of the plane and some problems of Dirac, Motzkin and Erdos in combinatorial geometry”, *Combinatorica*, **3** (1983), 281–297.
30. (with J. Spencer) “Balancing matrices with line shifts”, *Combinatorica*, **3** (1983), 299–304
31. “On a problem of K.F. Roth concerning irregularities of point distribution”, *Invent. Math.*, **74** (1983), 477–487.
32. “New results in the theory of irregularities of point distributions”, *Journées Arithmétiques, Noordwijkerhout, 1983*, 1–16 (Lectures Notes in Mathematics 1068, Springer Verlag).
33. “Cube–lattices with good distribution behaviour”, *Studia Sci. Math. Hungar.*, **19** (1984), 21–27.
34. “Some upper bounds in the theory of irregularities of distribution”, *Acta Arith.*, **43** (1984), 115–130.
35. (with J. Spencer) “Unit distances”, *J. Combinatorial Theory*, **37** (1984), 231–238.

36. (with J. Spencer) “Well-distributed 2-colorings of integers relative to long arithmetic progressions”, *Acta Arith.*, **43** (1984), 287–294.
37. (with J. Spencer) “Integral approximation sequences”, *Math. Programming*, **30** (1984), 88–98.
38. “Sums of distances between points on a sphere”, *Mathematika*, **31** (1984), 33–41.
39. “Lower bounds on the approximation of the multivariate empirical process”, *Z. Wahrsch. Gebiete*, **70** (1985), 289–306.
40. “Random graphs and positional games on the complete graph”, *Annals Discrete Math.*, **28** (1985), 7–13.
41. “Irregularities of distribution and combinatorics”, *Surveys in Combinatorics, 1985*, 25–46 (London Mathematical Society Lecture Note Series **103**).
42. “Remarks on combinatorial geometry I”, *Studia Sci. Math. Hungar.*, **20** (1985), 249–254.
43. “A large deviation phenomenon in discrete geometry I”, *Discrete Math.*, **60** (1986), 91–99.
44. (with W.W.L. Chen) “Note on irregularities of distribution”, *Mathematika*, **33** (1986), 148–163.
45. “On irregularities of  $\pm 1$ -sequences”, *Österreichischer Akademie Wissenschaften, Math., Phys. und Tech. Wissenschaften*, **195** (1986), 13–23.
46. “Uniformity and irregularity”, *Proceedings of the International Congress of Mathematicians, Berkeley, 1986*, 1400–1407.
47. “On a problem of Erdős in the theory of irregularities of distribution”, *Math. Annalen*, **277** (1987), 233–247.
48. “Irregularities of distribution I”, *Acta Math.*, **159** (1987), 1–49.
49. “On irregularities of point sets in the unit square”, *Combinatorics, Eger, 1987*, 63–74 (Colloquia Math. Soc. János Bolyái, Budapest).
50. “Irregularities of distribution II”, *Proc. London Math. Soc.*, **56** (1988), 1–50.
51. “Discrepancy of convex plane-sets”, *Monatsh Math.*, **105** (1988), 91–106.
52. “On a lattice point problem of L. Moser I”, *Combinatorica*, **8** (1988), 21–47.
53. “On a lattice point problem of L. Moser II”, *Combinatorica*, **8** (1988), 159–176.
54. “On a problem in combinatorial geometry”, *Scientia (Chile) A*, **2** (1988), 1–10.
55. “Balanced two-colorings of finite sets in the cube”, *Discrete Math.*, **73** (1988/89), 13–25.
56. “On a problem of W. M. Schmidt concerning one-sided irregularities of point distributions”, *Math. Annalen*, **285** (1989), 29–55.

57. “A two-dimensional van Aardenne–Ehrenfest theorem in irregularities of distribution”, *Compositio Math.*, **72** (1989), 269–339.
58. (with W.W.L. Chen) “Irregularities of point distribution relative to convex polygons”, *Irregularities of Partitions, Fertőd, 1986*, 1–22 (Algorithms and Combinatorics **8**, Springer Verlag, Berlin, 1989).
59. (with J. Spencer) “Balancing matrices with line shifts, II”, *Irregularities of Partitions, Fertőd, 1986*, 23–37 (Algorithms and Combinatorics **8**, Springer Verlag, Berlin, 1989).
60. “On a lattice–point problem of H. Steinhaus”, *Studia Sci. Math. Hungar.*, **24** (1989), 263–268.
61. (with W.W.L. Chen) “Note on irregularities of distribution II”, *Proc. London Math. Soc.*, **61** (1990), 251–272.
62. “Almost collinear triples among  $N$  points on the plane”, *A tribute to Paul Erdős*, 39–57 (Cambridge University Press, 1990).
63. “On size Ramsey number of paths trees and circuits II”, *Mathematics of Ramsey Theory*, 34–45 (Springer Verlag, 1990).
64. “The modulus of polynomials with zeros on the unit circle: a problem of Erdős”, *Annals Math.*, **134** (1991), 609–651.
65. “Quasi-random 2-colorings of point sets”, *Random Structures and Algorithms*, **2** (1991), 289–301.
66. “Flat polynomials on the unit circle – note on a problem of Littlewood”, *Bull. London Math. Soc.*, **23** (1991), 269–277.
67. “An algorithmic approach to the Lovasz Local Lemma I”, *Random Structures and Algorithms*, **2** (1991), 343–365.
68. “Irregularities of distribution and category theorem”, *Studia Sci. Math. Hungarica*, **26** (1991), 81–86.
69. “Randomness of  $n\sqrt{2} \bmod 1$  and a Ramsey property of the hyperbola”, *Colloquia Math. Soc. Janos Bolyai 60, Sets, Graphs and Numbers, Budapest, Hungary*, (1992), 23–66.
70. (with W.W.L. Chen) “Irregularities of point distribution relative to half-planes I”, *Mathematika*, **40** (1993), 102–126.
71. (with W.W.L. Chen) “Irregularities of point distribution relative to convex polygons II”, *Mathematika*, **40** (1993), 127–136.
72. “Parallel matching complexity of Ramsey’s theorem”, *Complexity in Computer Science, DIMACS Series, Vol.*, **13** (1993), 39–50.
73. “Achievement games and the probabilistic method”, *Bolyai Soc. Math. Studies, Combinatorics, Paul Erdős is Eighty, Keszthely, Hungary*, (1993), 51–78.

74. “Probabilistic diophantine approximation I: Kronecker sequences”, *Annals of Math.*, **140** (1994), 451–502.
75. “Deterministic graph games and a probabilistic intuition”, *Combinatorics, Probability and Computing*, **3** (1994), 13–26.
76. (with V.T. Sós) “Discrepancy theory”, *Handbook of Combinatorics*, Elsevier Science B.V. edited by R. Graham, M. Grötschel and L. Lovász, (1995), 1405–1446.
77. “Foundations of Positional games”, *Random Structures and Algorithms*, **9** No.1/2 (1996), 15–47.
78. “Games, Randomness and Algorithms”, *The Mathematics of Paul Erdős I*, Eds.: R.L. Graham and J. Nešetřil, Springer-Verlag Berlin Heidelberg New York 1997, 280–310.
79. (with W.W.L. Chen) “Irregularities of point distribution relative to convex polygons III”, *Journal of London Math. Soc.* (2) **56** (1997), 222–230.
80. with J.R. Alexander and W.W.L. Chen, “Geometric discrepancy theory and uniform distribution”, joint work with R. Alexander and W.W.L. Chen, *Handbook of Discrete and Computational Geometry*, (edited by J. Goodman and J. O’Rourke, CRC Press, Boca Raton, New York, 1997, 185–207.
81. “Games, Randomness and Algorithms”, *The Mathematics of Paul Erdős I*, Eds.: R.L. Graham and J. Nešetřil, Springer-Verlag Berlin Heidelberg New York 1997, 280–310.
82. “Diophantine approximation and quadratic fields”, *Number Theory* (Eger Conference 1996), Walter de Gruyter GmbH. & Co., Berlin-New York 1998, 55–93.
83. “From probabilistic diophantine approximation to quadratic fields”, *Random and Quasi-Random Point Sets*, Lecture Notes in Statistics **138** Springer-Verlag, New York - Berlin 1998, 1–48.
84. “On irregularities of distribution in shifts and dilatations of integer sequences”, (with A. Sárközy and C.L. Stewart) *Number Theory in Progress*, Walter de Gruyter, Berlin - New York 1999, 633–638.
85. “Randomness in lattice point problems”, *Discrete Mathematics*, **229** (2001), 29–55.
86. “Positional games and the second moment method”, *Combinatorica*, **22** (2) (2002), 169–216.
87. “Ramsey games”, *Discrete Mathematics*, **249** (2002), 3–30.
88. “The Erdős-Selfridge theorem in positional game theory”, Bolyai Society Mathematical Studies, vol. 11, *Paul Erdős and his Mathematics. II*, Budapest, Hungary, 2002, 33-77.
89. “On the uniform distribution of inverses modulo  $n$ ”, (joint work with Mizan R. Khan, Eastern Connecticut State University), *Periodica Mathematica*, **44** (3) (2002), 147-155.

**publikálásra elfogadott cikkek, melyek még nem jelentek meg:**

90. "Multidimensional TicTacToe", 20 oldal, *Journal of Combinatorial Theory Ser. A*, 2003-4.
91. "Tic-Tac-Toe", 32 oldal, Konferencia kötet "dedicated to Paul Erdős", szerkesztő: B. Bollobás.
92. "Efficient proper 2-colorings of almost disjoint hypergraphs", (with Sachin P. Lodha, Ph.D. student, Comp. Sci. Dept., Rutgers), 10 oldal, Konferencia kötet: *SIAM's SODA'02 Conference, January 2002, San Francisco*.
93. "Lattice point problems: crossroads of Number Theory, Probability Theory, and Fourier Analysis", 35 oldal, Konferencia kötet: *Fourier Analysis and Convexity, June 2001, Milan, Italy* (Publisher: Birkhauser).

**publikálásra benyújtott, de még el nem fogadott cikkek:**

94. "Positional Games versus Ramsey Theory", 19 oldal.
95. "On the Degree Game", 23 oldal. 23 oldal.
96. "Exact solution of the Clique Game", 12 oldal.
97. "Game-theoretic local lemma. I.", 27 oldal.
98. "On Biased Games", 21 oldal.

2003 augusztus.