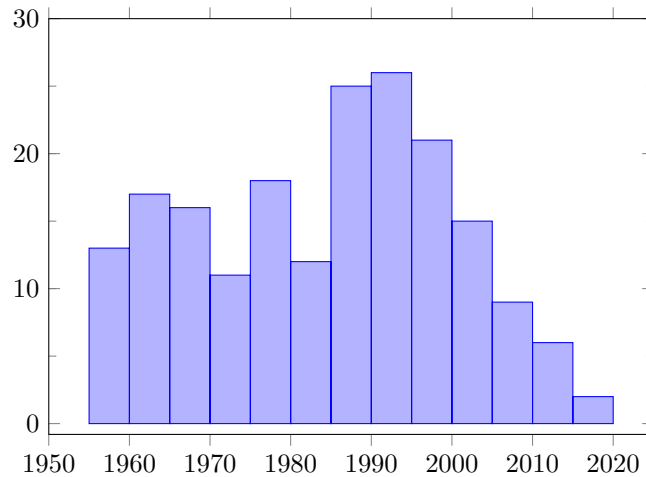# PUBLICATIONS OF HARRY KESTEN

A histogram of Harry Kesten's publications in five-year periods from 1956 to 2020.

1956

K1. H. Kesten and J. T. Runnenburg. Some remarks on the calculation of the expectation and the spread of the number of inconsistencies in a fixed rank correlation scheme. *Statistica Neerlandica*, 10:197–204, 1956.

K2. H. Kesten and J. T. Runnenburg. *Priority in waiting line problems*. Statist. Afdeling Rep. S 211 (VP 11). Math. Centrum Amsterdam., 1956. 26 pp.

K3. H. Kesten and J. T. Runnenburg. *Some elementary proofs in renewal theory with applications to waiting times*. Afdeling Rep. S 203. Math. Centrum Amsterdam. Statist., 1956. 16 pp.

1957

K4. H. Kesten and J. T. Runnenburg. Priority in waiting line problems. I. *Nederl. Akad. Wetensch. Proc. Ser. A. 60 = Indag. Math.*, 19:312–324, 1957.

K5. H. Kesten and J. T. Runnenburg. Priority in waiting line problems. II. *Nederl. Akad. Wetensch. Proc. Ser. A. 60 = Indag. Math.*, 19:325–336, 1957.

1958

K6. H. Kesten. Accelerated stochastic approximation. *Ann. Math. Statist.*, 29:41–59, 1958.

K7. H. Kesten. *Symmetric random walk on groups*. ProQuest LLC, Ann Arbor, MI, 1958. PhD Thesis, Cornell University.

1959

K8. M. Kac and H. Kesten. On rapidly mixing transformations and an application to continued fractions. *Bull. Amer. Math. Soc.*, 64:283–287, 1958. Correction in Volume 65 (1959), page 67.

K9. H. Kesten. Full Banach mean values on countable groups. *Math. Scand.*, 7:146–156, 1959.

K10. H. Kesten. On a series of cosecants. II. *Nederl. Akad. Wetensch. Proc. Ser. A 62 = Indag. Math.*, 21:110–119, 1959.

K11. H. Kesten. Symmetric random walks on groups. *Trans. Amer. Math. Soc.*, 92:336–354, 1959.

K12. H. Kesten and N. Morse. A property of the multinomial distribution. *Ann. Math. Statist.*, 30:120–127, 1959.

1960

K13. H. Furstenberg and H. Kesten. Products of random matrices. *Ann. Math. Statist.*, 31:457–469, 1960.

K14. H. Kesten. Uniform distribution mod 1. *Ann. of Math. (2)*, 71:445–471, 1960.

1961

K15. H. Kesten. On a theorem of Spitzer and Stone and random walks with absorbing barriers. *Illinois J. Math.*, 5:246–266, 1961.

K16. H. Kesten. Random walks with absorbing barriers and Toeplitz forms. *Illinois J. Math.*, 5:267–290, 1961.

K17. H. Kesten. Some remarks on the capacity of compound channels in the semicontinuous case. *Information and Control*, 4:169–184, 1961.

K18. H. Kesten. Uniform distribution mod 1. II. *Acta Arith*, 7:355–380, 1961/1962.

1962

K19. Z. Ciesielski and H. Kesten. A limit theorem for the fractional parts of the sequence $\{2^k t\}$. *Proc. Amer. Math. Soc.*, 13:596–600, 1962.

K20. H. Kesten. Occupation times for Markov and semi-Markov chains. *Trans. Amer. Math. Soc.*, 103:82–112, 1962.

K21. H. Kesten. Some probabilistic theorems on Diophantine approximations. *Trans. Amer. Math. Soc.*, 103:189–217, 1962.

K22. H. Kesten, D. Ornstein, and F. Spitzer. A general property of random walk. *Bull. Amer. Math. Soc.*, 68:526–528, 1962.

K23. H. Kesten. On the extreme eigenvalues of translation kernels and Toeplitz matrices. *J. Analyse Math.*, 10:117–138, 1962/63.

1963

K24. H. Kesten. On the number of self-avoiding walks. *J. Mathematical Phys.*, 4:960–969, 1963.

K25. H. Kesten. Positivity intervals of stable processes. *J. Math. Mech.*, 12:391–410, 1963.

K26. H. Kesten. Ratio theorems for random walks. II. *J. Analyse Math.*, 11:323–379, 1963.

K27. H. Kesten and F. Spitzer. Ratio theorems for random walks. I. *J. Analyse Math.*, 11:285–322, 1963.

1964

K28. H. Kesten. On the number of self-avoiding walks. II. *J. Mathematical Phys.*, 5:1128–1137, 1964.

K29. H. Kesten. The discrepancy of random sequences $\{kx\}$. *Acta Arith.*, 10:183–213, 1964/65.

1965

K30. H. Kesten. An iterated logarithm law for local time. *Duke Math. J.*, 32:447–456, 1965.

K31. H. Kesten and F. Spitzer. Random walk on countably infinite Abelian groups. *Acta Math.*, 114:237–265, 1965.

1966

K32. H. Kesten, P. Ney, and F. Spitzer. The Galton–Watson process with mean one and finite variance. *Teor. Verojatnost. i Primenen.*, 11:579–611, 1966. [*Theory Prob. and Appl.*, 11:513–540, 1966.]

K33. H. Kesten and B. P. Stigum. Additional limit theorems for indecomposable multidimensional Galton–Watson processes. *Ann. Math. Statist.*, 37:1463–1481, 1966.

K34. H. Kesten and B. P. Stigum. A limit theorem for multidimensional Galton–Watson processes. *Ann. Math. Statist.*, 37:1211–1223, 1966.

K35. H. Kesten and V. T. Sós. On two problems of Erdős, Szüsz and Turán concerning diophantine approximations. *Acta Arith*, 12:183–192, 1966/1967.

K36. H. Kesten. On a conjecture of Erdős and Szüsz related to uniform distribution mod 1. *Acta Arith.*, 12:193–212, 1966/67.

1967

K37. H. Kesten. The Martin boundary of recurrent random walks on countable groups. In *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif., 1965/66)*, volume 2, part 2, pages 51–74. Univ. California Press, Berkeley, Calif., 1967.

K38. H. Kesten and B. P. Stigum. Limit theorems for decomposable multi-dimensional Galton–Watson processes. *J. Math. Anal. Appl.*, 17:309–338, 1967.

1968

K39. H. Kesten. A Tauberian theorem for random walk. *Israel J. Math.*, 6:279–294, 1968.

1969

K40. H. Kesten. A convolution equation and hitting probabilities of single points for processes with stationary independent increments. *Bull. Amer. Math. Soc.*, 75:573–578, 1969.

K41. H. Kesten. A sharper form of the Doeblin–Lévy–Kolmogorov–Rogozin inequality for concentration functions. *Math. Scand.*, 25:133–144, 1969.

K42. H. Kesten. *Hitting probabilities of single points for processes with stationary independent increments*, volume 93 of *Memoirs of the American Mathematical Society*. American Mathematical Society, Providence, R.I., 1969.

1970

K43. H. Kesten. The limit points of a normalized random walk. *Ann. Math. Statist.*, 41:1173–1205, 1970.

K44. H. Kesten. Quadratic transformations: A model for population growth. I. *Adv. Appl. Probab.*, 2:1–82, 1970.

K45. H. Kesten. Quadratic transformations: A model for population growth. II. *Adv. Appl. Probab.*, 2:179–228, 1970.

K46. H. Kesten. A ratio limit theorem for symmetric random walk. *J. Analyse Math.*, 23:199–213, 1970.

1971

K47. H. Kesten. Hitting of sets by processes with stationary independent increments. In *Actes du Congrès International des Mathématiciens (Nice, 1970)*, volume 2, pages 525–530. 1971.

K48. H. Kesten. Some nonlinear stochastic growth models. *Bull. Amer. Math. Soc.*, 77:492–511, 1971.

1972

K49. R. K. Getoor and H. Kesten. Continuity of local times for Markov processes. *Compositio Math.*, 24:277–303, 1972.

K50. H. Kesten. Limit theorems for stochastic growth models. I, II. *Adv. Appl. Probab.*, 4:193–232; ibid. 4 (1972), 393–428, 1972.

K51. H. Kesten. Sums of independent random variables—without moment conditions. *Ann. Math. Statist.*, 43:701–732, 1972.

1973

K52. H. Kesten. Random difference equations and renewal theory for products of random matrices. *Acta Math.*, 131:207–248, 1973.

1974

K53. K. B. Erickson and H. Kesten. Strong and weak limit points of a normalized random walk. *Ann. Probab.*, 2:553–579, 1974.

K54. H. Kesten. Renewal theory for functionals of a Markov chain with general state space. *Ann. Probab.*, 2:355–386, 1974.

1975

K55. H. Kesten. Sums of stationary sequences cannot grow slower than linearly. *Proc. Amer. Math. Soc.*, 49:205–211, 1975.

K56. H. Kesten, M. V. Kozlov, and F. Spitzer. A limit law for random walk in a random environment. *Compositio Math.*, 30:145–168, 1975.

K57. H. Kesten and F. Spitzer. Controlled Markov chains. *Ann. Probab.*, 3:32–40, 1975.

1976

K58. H. Kesten. Existence and uniqueness of countable one-dimensional Markov random fields. *Ann. Probab.*, 4(4):557–569, 1976.

K59. H. Kesten. Lévy processes with a nowhere dense range. *Indiana Univ. Math. J.*, 25(1):45–64, 1976.

K60. H. Kesten. Recurrence criteria for multi-dimensional Markov chains and multi-dimensional linear birth and death processes. *Adv. Appl. Probab.*, 8(1):58–87, 1976.

K61. H. Kesten and G. L. O'Brien. Examples of mixing sequences. *Duke Math. J.*, 43(2):405–415, 1976.

1977

K62. H. Kesten. A renewal theorem for random walk in a random environment. In *Probability (Proc. Sympos. Pure Math., Vol. XXXI, Univ. Illinois, Urbana, Ill., 1976)*, pages 67–77, 1977.

1978

K63. H. Kesten. Branching Brownian motion with absorption. *Stochastic Process. Appl.*, 7(1):9–47, 1978.

K64. H. Kesten. Erickson's conjecture on the rate of escape of d-dimensional random walk. *Trans. Amer. Math. Soc.*, 240:65–113, 1978.

K65. H. Kesten and G. C. Papanicolaou. A limit theorem for turbulent diffusion. In *Mathematical problems in theoretical physics (Proc. Internat. Conf., Univ. Rome, 1977)*, volume 80 of *Lecture Notes in Phys.*, pages 371–374. Springer, Berlin, 1978.

1979

K66. H. Kesten. Positive harmonic functions with zero boundary values. In *Harmonic analysis in Euclidean spaces (Proc. Sympos. Pure Math., Williams Coll., Williamstown, Mass., 1978)*, Proc. Sympos. Pure Math., XXXV, part 1, pages 349–352. Amer. Math. Soc., Providence, R.I., 1979.

K67. H. Kesten. The speed of convergence of a martingale. *Israel J. Math.*, 32(1):83–96, 1979.

K68. H. Kesten and G. C. Papanicolaou. A limit theorem for turbulent diffusion. *Comm. Math. Phys.*, 65(2):97–128, 1979.

K69. H. Kesten and F. Spitzer. A limit theorem related to a new class of self-similar processes. *Z. Wahrsch. Verw. Gebiete*, 50(1):5–25, 1979.

1980

K70. H. Kesten. The critical probability of bond percolation on the square lattice equals $\frac{1}{2}$. *Comm. Math. Phys.*, 74(1):41–59, 1980.

K71. H. Kesten. The number of alleles in electrophoretic experiments. *Theoret. Population Biol.*, 18(2):290–294, 1980.

K72. H. Kesten. The number of distinguishable alleles according to the Ohta–Kimura model of neutral mutation. *J. Math. Biol.*, 10(2):167–187, 1980.

K73. H. Kesten. On the time constant and path length of first-passage percolation. *Adv. in Appl. Probab.*, 12(4):848–863, 1980.

K74. H. Kesten. Random processes in random environments. In *Biological growth and spread (Proc. Conf., Heidelberg, 1979)*, volume 38 of *Lecture Notes in Biomath.*, pages 82–92. Springer, Berlin, 1980.

K75. H. Kesten and G. C. Papanicolaou. A limit theorem for stochastic acceleration. *Comm. Math. Phys.*, 78(1):19–63, 1980/81.

1981

K76. J. T. Cox and H. Kesten. On the continuity of the time constant of first-passage percolation. *J. Appl. Probab.*, 18(4):809–819, 1981.

K77. H. Kesten. Analyticity properties and power law estimates of functions in percolation theory. *J. Statist. Phys.*, 25(4):717–756, 1981.

K78. H. Kesten. Percolation theory for mathematicians. *Nieuw Arch. Wisk.*, 29(3):227–239, 1981.

K79. H. Kesten and Y. Ogura. Recurrence properties of Lotka–Volterra models with random fluctuations. *J. Math. Soc. Japan*, 33(2):335–366, 1981.

1982

K80. H. Kesten. *Percolation theory for mathematicians*, volume 2 of *Progress in Probability and Statistics*. Birkhäuser, Boston, Mass., 1982.

1984

K81. G. Grimmett and H. Kesten. First-passage percolation, network flows and electrical resistances. *Z. Wahrsch. Verw. Gebiete*, 66(3):335–366, 1984.

K82. G. Grimmett and H. Kesten. Random electrical networks on complete graphs. *J. London Math. Soc. (2)*, 30(1):171–192, 1984.

K83. K. Kawazu and H. Kesten. On birth and death processes in symmetric random environment. *J. Statist. Phys.*, 37(5-6):561–576, 1984.

K84. H. Kesten. Percolation theory and resistance of random electrical networks. In *Proceedings of the International Congress of Mathematicians, (Warsaw, 1983)*, volume 2, pages 1081–1088. PWN, Warsaw, 1984.

K85. H. Kesten and F. Spitzer. Convergence in distribution of products of random matrices. *Z. Wahrsch. Verw. Gebiete*, 67(4):363–386, 1984.

1985

K86. H. Kesten. First-passage percolation and a higher-dimensional generalization. In *Particle systems, random media and large deviations (Brunswick, Maine, 1984)*, volume 41 of *Contemp. Math.*, pages 235–251. Amer. Math. Soc., Providence, RI, 1985.

K87. J. van den Berg and H. Kesten. Inequalities with applications to percolation and reliability. *J. Appl. Probab.*, 22(3):556–569, 1985.

1986

K88. H. Kesten. Aspects of first passage percolation. In *École d'été de probabilités de Saint-Flour, XIV—1984*, volume 1180 of *Lecture Notes in Math.*, pages 125–264. Springer, Berlin, 1986. Reprinted in [K192].

K89. H. Kesten. *Teoriya prosachivaniya dlya matematikov.* Mir, Moscow, 1986.

K90. H. Kesten. The incipient infinite cluster in two-dimensional percolation. *Probab. Theory Related Fields*, 73(3):369–394, 1986.

K91. J. E. Cohen, H. Kesten, and C. M. Newman, editors. *Random matrices and their applications*, volume 50 of *Contemporary Mathematics.* American Mathematical Society, Providence, RI, 1986.

K92. H. Kesten. The influence of Mark Kac on probability theory. *Ann. Probab.*, 14(4):1103–1128, 1986. Correction in Volume 15 (1987), page 1228.

K93. H. Kesten. The limit distribution of Sinaǐ's random walk in random environment. *Phys. A*, 138(1-2):299–309, 1986.

K94. H. Kesten. Subdiffusive behavior of random walk on a random cluster. *Ann. Inst. H. Poincaré Probab. Statist.*, 22(4):425–487, 1986.

1987

K95. M. Aizenman, H. Kesten, and C. M. Newman. Uniqueness of the infinite cluster and continuity of connectivity functions for short and long range percolation. *Comm. Math. Phys.*, 111(4):505–531, 1987.

K96. M. Aizenman, H. Kesten, and C. M. Newman. Uniqueness of the infinite cluster and related results in percolation. In *Percolation theory and ergodic theory of infinite particle systems (Minneapolis, Minn., 1984–1985)*, volume 8 of *IMA Vol. Math. Appl.*, pages 13–20. Springer, New York, 1987.

K97. H. Kesten. Hitting probabilities of random walks on $\mathbf{Z}^d$. *Stochastic Process. Appl.*, 25(2):165–184, 1987.

K98. H. Kesten. How long are the arms in DLA? *J. Phys. A*, 20(1):L29–L33, 1987.

K99. H. Kesten. Percolation theory and first-passage percolation. *Ann. Probab.*, 15(4):1231–1271, 1987.

K100. H. Kesten. Random walks on random clusters at criticality. In *Probabilistic methods in mathematical physics (Katata/Kyoto, 1985)*, pages 211–218. Academic Press, Boston, MA, 1987.

K101. H. Kesten. A scaling relation at criticality for 2D-percolation. In *Percolation theory and ergodic theory of infinite particle systems (Minneapolis, Minn., 1984–1985)*, volume 8 of *IMA Vol. Math. Appl.*, pages 203–212. Springer, New York, 1987.

K102. H. Kesten. Scaling relations for 2D-percolation. *Comm. Math. Phys.*, 109(1):109–156, 1987.

K103. H. Kesten. Surfaces with minimal random weights and maximal flows: a higher-dimensional version of first-passage percolation. *Illinois J. Math.*, 31(1):99–166, 1987.

K104. H. Kesten and Y. Zhang. Strict inequalities for some critical exponents in two-dimensional percolation. *J. Statist. Phys.*, 46(5-6):1031–1055, 1987.

1988

K105. J. T. Bendler, M. Dishon, H. Kesten, and G. H. Weiss. A first passage time problem for random walk occupancy. *J. Statist. Phys.*, 50(5-6):1069–1087, 1988.

K106. H. Kesten. Recent progress in rigorous percolation theory. volume 157–158, pages 217–231. 1988. Colloque Paul Lévy sur les Processus Stochastiques (Palaiseau, 1987).

1989

K107. J. Bricmont, H. Kesten, J. L. Lebowitz, and R. H. Schonmann. A note on the Ising model in high dimensions. *Comm. Math. Phys.*, 122(4):597–607, 1989.

K108. J. T. Chayes, L. Chayes, G. R. Grimmett, H. Kesten, and R. H. Schonmann. The correlation length for the high-density phase of Bernoulli percolation. *Ann. Probab.*, 17(4):1277–1302, 1989.

K109. H. Kesten. Supercritical branching processes with countably many types and the size of random Cantor sets. In *Probability, statistics, and mathematics*, pages 103–121. Academic Press, Boston, MA, 1989.

K110. H. Kesten and R. H. Schonmann. Behavior in large dimensions of the Potts and Heisenberg models. *Rev. Math. Phys.*, 1(2-3):147–182, 1989.

1990

K111. R. Durrett and H. Kesten. The critical parameter for connectedness of some random graphs. In *A tribute to Paul Erdős*, pages 161–176. Cambridge Univ. Press, Cambridge, 1990.

K112. H. Kesten. Asymptotics in high dimensions for percolation. In *Disorder in physical systems*, Oxford Sci. Publ., pages 219–240. Oxford Univ. Press, New York, 1990.

K113. H. Kesten. Upper bounds for the growth rate of DLA. *Phys. A*, 168(1):529–535, 1990.

K114. H. Kesten and Y. Zhang. The probability of a large finite cluster in supercritical Bernoulli percolation. *Ann. Probab.*, 18(2):537–555, 1990.

1991

K115. R. Durrett, H. Kesten, and G. Lawler. Making money from fair games. In *Random walks, Brownian motion, and interacting particle systems*, volume 28 of *Progr. Probab.*, pages 255–267. Birkhäuser, Boston, MA, 1991.

K116. R. Durrett, H. Kesten, and E. Waymire. On weighted heights of random trees. *J. Theoret. Probab.*, 4(1):223–237, 1991.

K117. R. Durrett and H. Kesten, editors. *Random walks, Brownian motion, and interacting particle systems*, volume 28 of *Progress in Probability*. Birkhäuser, Boston, MA, 1991. A Festschrift in honor of Frank Spitzer.

K118. H. Kesten. Asymptotics in high dimensions for the Fortuin–Kasteleyn random cluster model. In *Spatial stochastic processes*, volume 19 of *Progr. Probab.*, pages 57–85. Birkhäuser, Boston, MA, 1991.

K119. H. Kesten. Relations between solutions to a discrete and continuous Dirichlet problem. In *Random walks, Brownian motion, and interacting particle systems*, volume 28 of *Progr. Probab.*, pages 309–321. Birkhäuser, Boston, MA, 1991.

K120. H. Kesten. Some caricatures of multiple contact diffusion-limited aggregation and the η-model. In *Stochastic analysis (Durham, 1990)*, volume 167 of *London Math. Soc. Lecture Note Ser.*, pages 179–227. Cambridge Univ. Press, Cambridge, 1991.

1992

K121. H. Kesten. An absorption problem for several Brownian motions. In *Seminar on Stochastic Processes, 1991 (Los Angeles, CA, 1991)*, volume 29 of *Progr. Probab.*, pages 59–72. Birkhäuser, Boston, MA, 1992.

K122. H. Kesten. Connectivity of certain graphs on halfspaces, quarter spaces, ... In *Probability theory (Singapore, 1989)*, pages 91–104. De Gruyter, Berlin, 1992.

K123. H. Kesten and G. F. Lawler. A necessary condition for making money from fair games. *Ann. Probab.*, 20(2):855–882, 1992.

K124. H. Kesten and R. A. Maller. Ratios of trimmed sums and order statistics. *Ann. Probab.*, 20(4):1805–1842, 1992.

1993

K125. C. E. Bezuidenhout, G. R. Grimmett, and H. Kesten. Strict inequality for critical values of Potts models and random-cluster processes. *Comm. Math. Phys.*, 158(1):1–16, 1993.

K126. J. T. Cox, A. Gandolfi, P. S. Griffin, and H. Kesten. Greedy lattice animals. I. Upper bounds. *Ann. Appl. Probab.*, 3(4):1151–1169, 1993.

K127. G. R. Grimmett, H. Kesten, and Y. Zhang. Random walk on the infinite cluster of the percolation model. *Probab. Theory Related Fields*, 96(1):33–44, 1993.

K128. H. Kesten. Convergence in distribution of lightly trimmed and untrimmed sums are equivalent. *Math. Proc. Cambridge Philos. Soc.*, 113(3):615–638, 1993.

K129. H. Kesten. Frank Spitzer's work on random walk and Brownian motion. *Ann. Probab.*, 21(2):593–607, 1993.

K130. H. Kesten. On the speed of convergence in first-passage percolation. *Ann. Appl. Probab.*, 3(2):296–338, 1993.

K131. H. Kesten and Y. Zhang. The tortuosity of occupied crossings of a box in critical percolation. *J. Statist. Phys.*, 70(3-4):599–611, 1993.

K132. J. van den Berg and H. Kesten. Inequalities for the time constant in first-passage percolation. *Ann. Appl. Probab.*, 3(1):56–80, 1993.

1994

K133. A. Gandolfi and H. Kesten. Greedy lattice animals. II. Linear growth. *Ann. Appl. Probab.*, 4(1):76–107, 1994.

K134. H. Kesten. A limit theorem for weighted branching process trees. In *The Dynkin Festschrift*, volume 34 of *Progr. Probab.*, pages 153–166. Birkhäuser, Boston, MA, 1994.

K135. H. Kesten and R. A. Maller. Infinite limits and infinite limit points of random walks and trimmed sums. *Ann. Probab.*, 22(3):1473–1513, 1994.

1995

K136. I. Benjamini and H. Kesten. Percolation of arbitrary words in $\{0, 1\}^{\mathbf{N}}$. *Ann. Probab.*, 23(3):1024–1060, 1995.

K137. P. A. Ferrari, H. Kesten, S. Martínez, and P. Picco. Existence of quasi-stationary distributions. A renewal dynamical approach. *Ann. Probab.*, 23(2):501–521, 1995.

K138. H. Kesten. Branching random walk with a critical branching part. *J. Theoret. Probab.*, 8(4):921–962, 1995.

K139. H. Kesten. A ratio limit theorem for (sub) Markov chains on $\{1, 2, \cdots\}$ with bounded jumps. *Adv. Appl. Probab.*, 27(3):652–691, 1995.

K140. H. Kesten and R. A. Maller. The effect of trimming on the strong law of large numbers. *Proc. London Math. Soc.*, 71(2):441–480, 1995.

K141. H. Kesten and R. H. Schonmann. On some growth models with a small parameter. *Probab. Theory Related Fields*, 101(4):435–468, 1995.

1996

K142. I. Benjamini and H. Kesten. Distinguishing sceneries by observing the scenery along a random walk path. *J. Anal. Math.*, 69:97–135, 1996.

K143. P. A. Ferrari, H. Kesten, and S. Martínez. *R*-positivity, quasistationary distributions and ratio limit theorems for a class of probabilistic automata. *Ann. Appl. Probab.*, 6(2):577–616, 1996.

K144. H. Kesten. Detecting a single defect in a scenery by observing the scenery along a random walk path. In *Itô's stochastic calculus and probability theory*, pages 171–183. Springer, Tokyo, 1996.

K145. H. Kesten. On the non-convexity of the time constant in first-passage percolation. *Electron. Comm. Probab.*, 1:paper 1, 6 pp., 1996.

K146. H. Kesten and S. Lee. The central limit theorem for weighted minimal spanning trees on random points. *Ann. Appl. Probab.*, 6(2):495–527, 1996.

K147. H. Kesten and R. A. Maller. Two renewal theorems for general random walks tending to infinity. *Probab. Theory Related Fields*, 106(1):1–38, 1996.

K148. H. Kesten and B. Pittel. A local limit theorem for the number of nodes, the height, and the number of final leaves in a critical branching process tree. *Random Structures Algorithms*, 8(4):243–299, 1996.

1997

K149. H. Kesten. A universal form of the Chung-type law of the iterated logarithm. *Ann. Probab.*, 25(4):1588–1620, 1997.

K150. H. Kesten and R. A. Maller. Divergence of a random walk through deterministic and random subsequences. *J. Theoret. Probab.*, 10(2):395–427, 1997.

K151. H. Kesten and R. A. Maller. Random deletion does not affect asymptotic normality or quadratic negligibility. *J. Multivariate Anal.*, 63(1):136–179, 1997.

K152. H. Kesten and Y. Zhang. A central limit theorem for "critical" first-passage percolation in two dimensions. *Probab. Theory Related Fields*, 107(2):137–160, 1997.

1998

K153. H. Kesten. Distinguishing and reconstructing sceneries from observations along random walk paths. In *Microsurveys in discrete probability (Princeton, NJ, 1997)*, volume 41 of *DIMACS Ser. Discrete Math. Theoret. Comput. Sci.*, pages 75–83. Amer. Math. Soc., Providence, RI, 1998.

K154. H. Kesten and R. A. Maller. Random walks crossing high level curved boundaries. *J. Theoret. Probab.*, 11(4):1019–1074, 1998.

K155. H. Kesten and R. A. Maller. Random walks crossing power law boundaries. *Studia Sci. Math. Hungar.*, 34(1-3):219–252, 1998.

K156. H. Kesten, V. Sidoravicius, and Y. Zhang. Almost all words are seen in critical site percolation on the triangular lattice. *Electron. J. Probab.*, 3:paper 10, 75 pp., 1998.

1999

K157. C. Borgs, J. T. Chayes, H. Kesten, and J. Spencer. Uniform boundedness of critical crossing probabilities implies hyperscaling. *Random Structures Algorithms*, 15(3-4):368–413, 1999.

K158. H. Kesten and R. A. Maller. Stability and other limit laws for exit times of random walks from a strip or a halfplane. *Ann. Inst. H. Poincaré Probab. Statist.*, 35(6):685–734, 1999.

2000

K159. H. Kesten. Coalescing and annihilating random walk with "action at a distance". *J. Anal. Math.*, 80:183–256, 2000.

K160. H. Kesten and Z. Su. Asymptotic behavior of the critical probability for ρ-percolation in high dimensions. *Probab. Theory Related Fields*, 117(3):419–447, 2000.

K161. H. Kesten and Z. Su. Some remarks on *AB*-percolation in high dimensions. *J. Math. Phys.*, 41(3):1298–1320, 2000.

K162. J. van den Berg and H. Kesten. Asymptotic density in a coalescing random walk model. *Ann. Probab.*, 28(1):303–352, 2000.

2001

K163. C. Borgs, J. T. Chayes, H. Kesten, and J. Spencer. The birth of the infinite cluster: finite-size scaling in percolation. *Comm. Math. Phys.*, 224(1):153–204, 2001.

K164. A. Dembo, A. Gandolfi, and H. Kesten. Greedy lattice animals: negative values and unconstrained maxima. *Ann. Probab.*, 29(1):205–241, 2001.

K165. G. Grimmett and H. Kesten. Random electrical networks on complete graphs II: Proofs. 2001. https://arxiv.org/abs/math/0107068.

K166. Y. Hamana and H. Kesten. A large-deviation result for the range of random walk and for the Wiener sausage. *Probab. Theory Related Fields*, 120(2):183–208, 2001.

K167. H. Kesten, V. Sidoravicius, and Y. Zhang. Percolation of arbitrary words on the close-packed graph of $\mathbb{Z}^2$. *Electron. J. Probab.*, 6:paper 4, 27 pp., 2001.

2002

K168. R. Durrett, H. Kesten, and V. Limic. Once edge-reinforced random walk on a tree. *Probab. Theory Related Fields*, 122(4):567–592, 2002.

K169. Y. Hamana and H. Kesten. Large deviations for the range of an integer valued random walk. *Ann. Inst. H. Poincaré Probab. Statist.*, 38(1):17–58, 2002.

K170. H. Kesten. Some highlights of percolation. In *Proceedings of the International Congress of Mathematicians (Beijing)*, volume I, pages 345–362. Higher Ed. Press, Beijing, 2002.

K171. J. van den Berg and H. Kesten. Randomly coalescing random walk in dimension ≥ 3. In *In and out of equilibrium (Mambucaba, 2000)*, volume 51 of *Progr. Probab.*, pages 1–45. Birkhäuser, Boston, MA, 2002.

2003

K172. H. Kesten. First-passage percolation. In *From classical to modern probability*, volume 54 of *Progr. Probab.*, pages 93–143. Birkhäuser, Basel, 2003.

K173. H. Kesten and V. Sidoravicius. Branching random walk with catalysts. *Electron. J. Probab.*, 8:paper 5, 51 pp., 2003.

2004

K174. I. Benjamini, H. Kesten, Y. Peres, and O. Schramm. Geometry of the uniform spanning forest: transitions in dimensions $4, 8, 12, \ldots$. *Ann. of Math. (2)*, 160(2):465–491, 2004. Reprinted in *Selected works of Oded Schramm*, Springer, 751–777, 2011.

K175. A. A. Járai and H. Kesten. A bound for the distribution of the hitting time of arbitrary sets by random walk. *Electron. Comm. Probab.*, 9:152–161, 2004.

K176. H. Kesten and R. Maller. Some effects of trimming on the law of the iterated logarithm. *J. Appl. Probab.*, 41A:253–271, 2004.

K177. H. Kesten, editor. *Probability on discrete structures*, volume 110 of *Encyclopaedia of Mathematical Sciences*. Springer-Verlag, Berlin, 2004.

2005

K178. H. Kesten and V. Sidoravicius. The spread of a rumor or infection in a moving population. *Ann. Probab.*, 33(6):2402–2462, 2005.

2006

K179. H. Kesten. What is . . . percolation? *Notices Amer. Math. Soc.*, 53(5):572–573, 2006.

K180. H. Kesten and V. Sidoravicius. A phase transition in a model for the spread of an infection. *Illinois J. Math.*, 50(1-4):547–634, 2006.

2007

K181. I. Benjamini, R. Izkovsky, and H. Kesten. On the range of the simple random walk bridge on groups. *Electron. J. Probab.*, 12:paper 20, 591–612, 2007.

K182. A. M. Vershik, J. Bourgain, H. Kesten, and N. Reshetikhin. The mathematical work of the 2006 Fields medalists. *Notices Amer. Math. Soc.*, 54(3):388–404, 2007.

2008

K183. H. Kesten and V. Sidoravicius. Positive recurrence of a one-dimensional variant of diffusion limited aggregation. In *In and out of equilibrium. 2*, volume 60 of *Progr. Probab.*, pages 429–461. Birkhäuser, Basel, 2008.

K184. H. Kesten and V. Sidoravicius. A problem in one-dimensional diffusion-limited aggregation (DLA) and positive recurrence of Markov chains. *Ann. Probab.*, 36(5):1838–1879, 2008.

K185. H. Kesten and V. Sidoravicius. A shape theorem for the spread of an infection. *Ann. of Math. (2)*, 167(3):701–766, 2008.

2010

K186. H. Kesten. The work of Stanislav Smirnov. In *Proceedings of the International Congress of Mathematicians (Hyderabad)*, volume I, pages 73–84. Hindustan Book Agency, New Delhi, 2010.

K187. H. Kesten and V. Sidoravicius. A problem in last-passage percolation. *Braz. J. Probab. Stat.*, 24(2):300–320, 2010.

2012

K188. G. R. Grimmett and H. Kesten. Percolation since Saint-Flour. In *Percolation theory at Saint-Flour*, Probab. St.-Flour, pages ix–xxvii. Springer, Heidelberg, 2012.

K189. G. R. Grimmett and H. Kesten. *Percolation theory at Saint-Flour.* Probability at Saint-Flour. Springer, Heidelberg, 2012.

K190. H. Kesten, A. F. Ramírez, and V. Sidoravicius. Asymptotic shape and propagation of fronts for growth models in dynamic random environment. In *Probability in complex physical systems*, volume 11 of *Springer Proc. Math.*, pages 195–223. Springer, Heidelberg, 2012.

K191. H. Kesten, V. Sidoravicius, and M. Vares. Oriented percolation in a random environment. 2012. https://arxiv.org/abs/1207.3168.

2014

K192. F. den Hollander, H. Kesten, and V. Sidoravicius. Random walk in a high density dynamic random environment. *Indag. Math. (N.S.)*, 25(4):785–799, 2014.

K193. H. Kesten, B. N. B. de Lima, V. Sidoravicius, and M. E. Vares. On the compatibility of binary sequences. *Comm. Pure Appl. Math.*, 67(6):871–905, 2014.

2016

K194. I. Benjamini, E. Foxall, O. Gurel-Gurevich, M. Junge, and H. Kesten. Site recurrence for coalescing random walk. *Electron. Commun. Probab.*, 21:paper 47, 12 pp., 2016.

2020

K195. H. Duminil-Copin, H. Kesten, F. Nazarov, Y. Peres, and V. Sidoravicius. On the number of maximal paths in directed last-passage percolation. *Ann. Probab.*, 48(5):2176–2188.