

Publications 1968 – 1999

1. Thomas M. Liggett, *An invariance principle for conditioned sums of independent random variables*, J. of Math. and Mech. **18** (1968), 559–570.
2. Thomas M. Liggett and Steven A. Lippman, *Stochastic games with perfect information and time average payoff*, SIAM Rev. **11** (1969), 604–607.
3. Thomas M. Liggett, *On convergent diffusions: The densities and the conditioned processes*, Indiana U. Math. J. **20** (1970), 265–279.
4. Thomas M. Liggett, *Convergence of sums of random variables conditioned on a future change of sign*, Ann. Math. Statist. **41** (1970), 1978–1982.
5. Thomas M. Liggett, *Weak convergence of conditioned sums of independent random vectors*, Trans. Amer. Math. Soc. **152** (1970), 195–213.
6. Michael G. Crandall and Thomas M. Liggett, *Generation of semi-groups of nonlinear transformations on general Banach spaces*, Amer. J. Math. **93** (1971), 265–298.
7. Michael G. Crandall and Thomas M. Liggett, *A theorem and a counterexample in the theory of semigroups of nonlinear transformations*, Trans. Amer. Math. Soc. **160** (1971), 263–278.
8. Thomas M. Liggett, *Existence theorems for infinite particle systems*, Trans. Amer. Math. Soc. **165** (1972), 471–481.
9. Donald A. Darling, Thomas M. Liggett and Howard M. Taylor, *Optimal stopping for partial sums*, Ann. Math. Statist. **43** (1972), 1363–1368.
10. Thomas M. Liggett, *An infinite particle systems with zero range interactions*, Ann. Probab. **1** (1973), 240–253.
11. Thomas M. Liggett, *A characterization of the invariant measures for an infinite particle system with interactions*, Trans. Amer. Math. Soc. **179** (1973), 433–453.
12. Thomas M. Liggett, *A characterization of the invariant measures for an infinite particle system with interactions II*, Trans. Amer. Math. Soc. **198** (1974), 201–213.
13. Thomas M. Liggett, *Convergence to total occupancy in an infinite particle system with interactions*, Ann. Probab. **2** (1974), 989–998.
14. Richard A. Holley and Thomas M. Liggett, *Ergodic theorems for weakly interacting infinite systems and the voter model*, Ann. Probab. **3** (1975), 643–663.
15. Thomas M. Liggett, *Ergodic theorems for the asymmetric simple exclusion process*, Trans. Amer. Math. Soc. **213** (1975), 237–261.
16. Thomas M. Liggett, *Coupling the simple exclusion process*, Ann. Probab. **4** (1976), 339–356.
17. Thomas M. Liggett, *Extensions of the Erdos-Ko-Rado theorem and a statistical application*, J. Combinatorial Theory Ser. A **23** (1977), 15–21.
18. Thomas M. Liggett, *Ergodic theorems for the asymmetric simple exclusion process II*, Ann. Probab. **5** (1977), 795–801.
19. Thomas M. Liggett, *The stochastic evolution of infinite systems of interacting particles*, Lecture Notes in Math. 598, Springer, 1977, pp. 188–248.
20. Richard A. Holley and Thomas M. Liggett, *The survival of contact processes*, Ann. Probab. **6** (1978), 198–206.

21. Thomas M. Liggett, *Random invariant measures for Markov chains, and independent particle systems*, Zeit. Wahr. und Verw. Geb. **45** (1978), 297–313.
22. Thomas M. Liggett, *Attractive nearest neighbor spin systems on the integers*, Ann. Probab. **6** (1978), 629–636.
23. Thomas M. Liggett, *Long range exclusion processes*, Ann. Probab. **8** (1980), 861–889.
24. Richard A. Holley and Thomas M. Liggett, *Generalized potlatch and smoothing processes*, Zeit. Wahr. und Verw. Gebiete **55** (1981), 165–195.
25. Richard Durrett and Thomas M. Liggett, *The shape of the limit set in Richardson’s growth model*, Ann. Probab. **9** (1981), 186–193.
26. Thomas M. Liggett, *Interacting Markov processes*, Biological Growth and Spread, Springer Lecture Notes in Biomathematics, vol. 38, 1980, pp. 145–156.
27. Thomas M. Liggett and Frank Spitzer, *Ergodic theorems for coupled random walks and other systems with locally interacting components*, Zeit. Wahr. und Verw. Gebiete **56** (1981), 443–468.
28. David Griffeath and Thomas M. Liggett, *Critical phenomena for Spitzer’s reversible nearest particle systems*, Ann. Probab. **10** (1982), 881–895.
29. Thomas M. Liggett, *Attractive nearest particle systems*, Ann. Probab. **11** (1983), 16–33.
30. Thomas M. Liggett, *Two critical exponents for finite reversible nearest particle systems*, Ann. Probab. **11** (1983), 714–725.
31. Richard Durrett and Thomas M. Liggett, *Fixed points of the smoothing transformation*, Zeit. Wahr. und Verw. Gebiete **64** (1983), 275–301.
32. Thomas M. Liggett, *Interacting Particle Systems*, Springer, New York, 1985.
33. Thomas M. Liggett, *Finite nearest particle systems*, Zeit. Wahr. und Verw. Gebiete **68** (1984), 65–73.
34. Thomas M. Liggett, *An improved subadditive ergodic theorem*, Ann. Probab. **13** (1985), 1279–1285.
35. Thomas M. Liggett, *Nearest particle systems: results and open problems.*, Proc. of the Workshop on Stochastic Spatial Processes: Mathematical Theories and Biological Applications, Springer Lecture Notes in Mathematics, vol. 1212, 1986, pp. 200–215.
36. Thomas M. Liggett, *Applications of the Dirichlet principle to finite reversible nearest particle systems*, Prob. Th. Rel. Fields **74** (1987), 505–528.
37. Thomas M. Liggett, *Reversible growth models on symmetric sets*, Proceedings of the 1985 Taniguchi Symposium on Probabilistic Methods in Mathematical Physics, pp. 275–301.
38. Thomas M. Liggett, *Reversible growth models on Z_d : some examples*, Proceedings of the 1986 IMA Workshop on Percolation Theory and Ergodic Theory of Infinite Particle Systems, vol. 8, Springer, pp. 213–227.
39. Thomas M. Liggett, *Spatial stochastic growth models. Survival and critical behavior*, Proceedings of the 1986 International Congress of Mathematicians, pp. 1032–1041.
40. Enrique D. Andjel, Maury D. Bramson and Thomas M. Liggett, *Shocks in the asymmetric exclusion process*, Prob. Th. Rel. Fields **78** (1988), 231–247.
41. Thomas M. Liggett and Sidney C. Port, *Systems of independent Markov chains*, Stoch. Proc. Appl. **28** (1988), 1–22.
42. Maury D. Bramson and Thomas M. Liggett, *Lectures in Probability - Nagoya 1986*, Nagoya University Press.

43. Thomas M. Liggett, *Interacting particle systems*, Mathematical Sciences: Some Research Trends, National Research Council, 1988.
44. Thomas M. Liggett, *Exponential L_2 convergence of attractive reversible nearest particle systems*, Ann. Probab. **17** (1989), 403–432.
45. Thomas M. Liggett, *Total positivity and renewal theory*, Probability, Statistics and Mathematics: Papers in Honor of Samuel Karlin, Academic Press, 1989, pp. 141–162.
46. W. D. Ding, Richard Durrett, and Thomas M. Liggett, *Ergodicity of some reaction diffusion processes*, Prob. Th. Rel. Fields **85** (1990), 13–26.
47. Thomas M. Liggett, *Spatially inhomogeneous contact processes*, Spatial Stochastic Processes. A Festschrift in honor of Ted Harris on his Seventieth Birthday, Birkhauser, 1991, pp. 105–140.
48. Dayue Chen and Thomas M. Liggett, *Finite reversible nearest particle systems in inhomogeneous and random environments*, Ann. Probab. **20** (1992), 152–173.
49. Thomas M. Liggett, *L_2 rates of convergence for attractive reversible nearest particle systems: the critical case*, Ann. Probab. **19** (1991), 935–959.
50. Thomas M. Liggett, *Limiting behavior of a one dimensional system with long range interactions*, Mathematics of Random Media. AMS Lectures in Applied Mathematics, vol. 27, 1991, pp. 31–40.
51. Thomas M. Liggett, *The periodic threshold contact process*, Random Walks, Brownian Motion and Interacting Particle Systems, A Festschrift in honor of Frank Spitzer, Birkhauser, 1991, pp. 339–358.
52. Thomas M. Liggett, *Remarks on the sufficient condition for survival of spatially inhomogeneous contact processes*, Probability and Statistics, Proceedings of the Special Program at Nankai Institute of Mathematics, World Scientific, 1992, pp. 163–173.
53. Joel E. Cohen and Thomas M. Liggett, *Random arithmetic-geometric means and random π : observations and conjectures*, Stoch. Proc. Appl. **41** (1992), 261–271.
54. Thomas M. Liggett, *The survival of one dimensional contact processes in random environments*, Ann. Probab. **20** (1992), 696–723.
55. Thomas M. Liggett, *The contact process and its relatives in homogeneous and inhomogeneous environments*, Contribuciones en probabilidad y estadística matemática (Actas del cuarto congreso latinoamericano de probabilidad y estadística matemática) **3** (1992), 17–28.
56. Enrique D. Andjel, Thomas M. Liggett and Thomas Mountford, *Clustering in one dimensional threshold voter models*, Stoch. Proc. Appl. **42** (1992), 73–90.
57. Thomas M. Liggett, *Tópicos sobre sistemas de partículas con interacciones*, Catholic University of Chile (1992).
58. Thomas M. Liggett, *The coupling technique in interacting particle systems*, Proceedings of the Doebelin conference, vol. 149, AMS Contemporary Mathematics, 1993, pp. 73–83.
59. Thomas M. Liggett, *Clustering and coexistence in threshold voter models*, Cellular Automata and Cooperative Systems, Kluwer, 1993, pp. 403–410.
60. Thomas M. Liggett, *Coexistence in threshold voter models*, Ann. Probab. **22** (1994), 764–802.

61. Jon Aaronson, Thomas M. Liggett and Pierre Picco, *Equivalence of renewal sequences and isomorphism of random walks*, Israel J. Math. **87** (1994), 65–76.
62. Thomas M. Liggett, *Survival and coexistence in interacting particle systems*, Probability and Phase Transition, Kluwer, 1994, pp. 209–226.
63. Thomas M. Liggett and Peter Petersen, *The law of large numbers and $\sqrt{2}$* , Amer. Math. Monthly **102** (1995), 31–35.
64. Thomas M. Liggett, *Improved upper bounds for the contact process critical value*, Ann. Probab. **23** (1995), 697–723.
65. Pablo A. Ferrari, Antonio Galves and Thomas M. Liggett, *Exponential waiting time for filling a large interval in the symmetric simple exclusion process*, Annales de L’Institut Henri Poincaré **31** (1995), 155–175.
66. Thomas M. Liggett, *Survival of discrete time growth models, with applications to oriented percolation*, Ann. Appl. Probab. **5** (1995), 613–636.
67. Thomas M. Liggett, *Multiple transition points for the contact process on the binary tree*, Ann. Probab. **24** (1996), 1675–1710.
68. Thomas M. Liggett, Roberto H. Schonmann and Alan M. Stacey, *Domination by product measures*, Ann. Probab. **25** (1997), 71–95.
69. Thomas M. Liggett, *Branching random walks and contact processes on homogeneous trees*, Probab. Th. Rel. Fields **106** (1996), 495–519.
70. Thomas M. Liggett, *Stochastic models of interacting systems*, Ann. Probab. **25** (1997), 1–29.
71. Vladimir Belitsky, Pablo Ferrari, Norio Konno and Thomas M. Liggett, *A strong correlation inequality for contact processes and oriented percolation*, Stoch. Proc. Appl. **67** (1997), 213–225.
72. Thomas M. Liggett, *Ultra logconcave sequences and negative dependence*, J. Comb. Th. A **79** (1997), 315–325.
73. Thomas M. Liggett, *Branching random walks on finite trees*, Perplexing Problems in Probability. Festschrift in Honor of Harry Kesten, Birkhäuser, 1999, pp. 315–330.
74. Thomas M. Liggett, *Stochastic Interacting Systems: Contact, Voter and Exclusion Processes*, Springer, 1999.