Trends in percolation theory: a selective bibliography
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Here is a list of useful references in connection with my overview talk "Trends in percolation theory", given at the meeting

Combinatorics, Dynamics, Probabilities: Swedish-Russian conference

in Stockholm, 3-7 October 2000. For further guidlines, please do not hesitate to contact me, e.g., on email `olleh@math.chalmers.se` .

1. "Classical" percolation theory.

Grimmett, G.R. (1989) *Percolation*, Springer.

Grimmett, G.R. (1999) *Percolation* (2nd edition), Springer.

2. Conformal invariance.

Grimmett, G.R. (2000) Conformal invariance, droplets, and entanglemet, to appear in *State of the Art in Statistics and Probability Theory. Festschrift for Willem R. van Zwet* (M. de Gunst, C. Klaassen, and A. van der Vaart, eds.), IMS Lecture Notes. `http://www.statslab.cam.ac.uk/~grg/preprints.html`

Werner, W. (2000) Critical exponents, conformal invariance and planar Brownian motion, to appear in *Proccedings of the 3rd Europ. Congress of Mathematics*, Birkhäuser. `http://www.math.u-psud.fr/~werner/pre.html`

3. Percolation beyond $\mathbf{Z}^d$.

Benjamini, I. and Schramm, O. (1996) Percolation beyond $\mathbf{Z}^d$, many questions and a few answers, *Electron. Comm. Probab.* **1**, 71–82.
`http://www.math.washington.edu/~ejpecp/EcpVol1/paper8.abs.html`

Häggström, O., Peres, Y. and Schonmann, R.H. (1999) Percolation on transitive graphs as a coalescent process: relentless merging followed by simultaneous uniqueness, in *Perplexing Probability Problems: Festschrift in Honor of Harry Kesten* (M. Bramson and R. Durrett, eds), pp 69-90, Birkhäuser.
`http://www.math.chalmers.se/~olleh/papers.html`

Benjamini, I., Lyons, R., Peres, Y. and Schramm, O. (1999) Critical percolation on any nonamenable group has no infinite clusters, *Ann. Probab.* **27**, 1347–135.
`http://www.wisdom.weizmann.ac.il/~schramm/papers/`

Lyons, R. and Schramm, O. (1999) Indistinguishability of percolation clusters, *Ann. Probab.* **27**, 1809–1836. `http://www.wisdom.weizmann.ac.il/~schramm/papers/`

Lyons, R. (2000) Phase transitions on nonamenable graphs, *J. Math. Phys.* **41**, 1099–1126. `http://php.indiana.edu/~rdlyons/`

Pak, I. and Smirnova-Nagnibeda, T. (2000) On non-uniqueness of percolation on nonamenable Cayley graphs, *Comptes Rendus Acad. Sci. Paris, Ser. I Math*, **330**, 495–500.
`http://www-math.mit.edu/~pak/research.html`

4. Dynamical percolation.

Häggström, O., Peres, Y. and Steif, J. (1997) Dynamical percolation, *Annales de l'Inst. H. Poincaré, Probab. Statist.* **33**, 497-528.
`http://www.ma.huji.ac.il/~peres/recent.html`

Häggström, O. (1998) Dynamical percolation: early results and open problems, *Microsurveys in Discrete Probability* (D. Aldous and J. Propp, eds), pp 59-74, AMS, Providence, RI.

5. Continuum percolation.

Meester, R. and Roy, R. (1996) *Continuum Percolation*, Cambridge University Press.

Benjamini, I. and Schramm, O. (1998) Exceptional planes of percolation, *Probab. Th. Relat. Fields* **111**, 551–564. `http://www.wisdom.weizmann.ac.il/~schramm/papers/`

Jonasson, J. (2000) Optimization of shape in continuum percolation, to appear in *Ann. Probab.* `http://www.math.chalmers.se/~jonasson/recent.html`

Menshikov, M., Rybnikov, K. and Volkov, S. (2000) Loss of tension in an infinite membrane with holes distributed by Poisson law, preprint.
`http://www.fields.utoronto.ca/cgi-bin/preprint?refno=FI-PIA1999-017`

6. Entanglement percolation.

Grimmett, G.R. and Holroyd, A.E. (1999) Entanglement in percolation, to appear in *J. London Math. Soc.* `http://www.math.ucla.edu/~holroyd/research.html`

Häggström, O. (1999) Uniqueness of the infinite entangled component in three-dimensional bond percolation, to appear in *Ann. Probab.*
`http://www.math.chalmers.se/~olleh/papers.html`