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**Title:** Random lines and networks.

**Abstract:** The theory of random lines has a celebrated history, reaching back 300 years into the past to the work of Buffon, and forming a major part of the field of stochastic geometry. Recently it has found application in the derivation of surprising non-stochastic results concerning effective planar networks [1]. I plan to present an account of this and also to describe more recent work concerning flows in related networks [2,3] and to introduce a rather curious random metric space.

*References:*

1. David J. Aldous, WSK. Short-length routes in low-cost networks via Poisson line patterns. *Advances in Applied Probability*, 40,(2008), n. 1, pp. 1-21.
2. WSK. Networks and Poisson line patterns: fluctuation asymptotics. *Oberwolfach Reports* (2008), n. 5, pp. 2670-2672.
3. WSK. Geodesics and flows in a Poissonian city. *Annals of Applied Probability*, 21 (2011), n. 3, pp. 801-842.