ARBRES ALÉATOIRES ET ALGORITHMES
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On multiscaling Max-Semistable Distributions

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We shall present max-multiscaling distributions as an extended class of max-semistable distributions, which is itself an extended class of stable Extreme Value Distributions.

Key Words : functional equation; limit laws; multiscaling and max-semistable laws; self-similarity.

Random 0-1 rectangular matrices: a probabilistic analysis

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Carlitz considered in [1], $r \times n$ matrices with entries being zero or one and the number of changes, i.e., the number of (horizontally or vertically) adjacent entries which are different. We extend these results in many ways. For intance, we exhibit that the limiting distribution is Gaussian and get explicit formulæ for expectation and variance even in the general instance of d dimensions (instead of just two).

[1] L. Carlitz. Rectangular arrays of zeros and ones. *Duke Math. J.*, 39, 153-164, 1972.

Arbres aléatoires continus stables

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