

Liste de Publications par Quansheng Liu

A1: Articles dans les revues internationales avec comité de lecture

- [1] LI Bing, LIU Quansheng, XU JiaWei, LUO XiaoJun. A New Method for Removing Mixed Noises. *Sci. China Series F: Information Sciences*. In press. (Science Citation Indexed)
- [2] Quansheng Liu and Frédérique Watbled. Exponential inequalities for martingales and asymptotic properties of the free energy of directed polymers in random environment. *Stoch. Proc. Appl.* 119 (2009), 3101-3132. (Science Citation Indexed)
- [3] Quansheng Liu and Frédérique Watbled. Large deviation inequalities for supermartingales and applications to directed polymers in random environment. *C.R. Acad. Sci. Paris, Ser. I* 347 (2009) 1207 - 1212. (Science Citation Indexed)
- [4] Yingqiu Li and Quansheng Liu. Age-dependent branching processes in random environments. *Sci. China, Series A: mathematics*. 51, no.10, 1807-1830, 2008. (Science Citation Indexed)
- [5] Xiaojun Luo, Bing Li, Quansheng Liu and Jiawei Xu. A new linear mixed filter. *Computer engineering and applications*, vol. 44, no.17, pp.172-174 and 190, 2008.
- [6] Yingqiu Li, Xu Li and Quansheng Liu. A random walk with a branching system in random environments. *Sci. China, Series A: mathematics*. vol. 50, no. 5, 2007, 698-704. (Science Citation Indexed)
- [7] Quansheng Liu. On a linear recursive distributional equation. *J. Changsha University of Science and Technology*. vol.3, no.3, 2006, 91-97.
- [8] Quansheng Liu, Emmanuel Rio and Alain Rouault. Limit theorems for multiplicative processes. *Journal of Theoretical Probability*, Vol. 16, No. 4, 2003, 971-1014. [44 pages] (SCI)
- [9] Yves Guivarc'h, Emile Le Page and Quansheng Liu. Normalisation d'un processus de branchement critique dans un environnement aléatoire, *C.R. Acad. Sci. Paris, Ser. I* 337 (2003) 603-608. (SCI)
- [10] Quansheng Liu. An extension of a functional equation of Mandelbrot and Poincaré. *Asian J. Math.* 6 (2002), 145-168. [24 pages] (SCI)
- [11] Quansheng Liu. Asymptotic properties and absolute continuity of laws stable by random weighted mean. *Stoch. Proc. Appl.* (2001), 83-107. [25 pages] (SCI)
- [12] Quansheng Liu. Local dimensions of the branching measure on a Galton-Watson tree. *Ann. Inst. Henri Poincaré*, 37, 2 (2001) 195-222. [28 pages] (SCI)
- [13] Yves Guivarc'h and Quansheng Liu. Propriétés asymptotiques des processus de branchement en environnement aléatoire. *C. R. Acad. Sci. Paris, Série I*, t. 332 (2001), 339-344. (SCI)
- [14] Quansheng Liu. On generalized multiplicative cascades. *Stoch. Proc. Appl.* 86 (2000) 263-286. [24 pages] (SCI)
- [15] Quansheng Liu. Exact packing measure on a Galton-Watson tree. *Stoch. Proc. Appl.* 85 (2000)

19-28. [10 pages] (SCI)

[16] Quansheng Liu and Alain Rouault. Limit theorems for Mandelbrot's multiplicative cascades. *Ann. Appl. Prob.* 10 (2000) 218-239. [22 pages] (SCI)

[17] Quansheng Liu. Sur certaines lois invariantes par moyenne pondérée aléatoire. *C. R. Acad. Sci. Paris*, 330, Série I (2000), 815-820. [6 pages] (SCI)

[18] Quansheng Liu. Sur Certaines Martingales de Mandelbrot Généralisées. *C. R. Acad. Sci. Paris*, t.328, Série I (1999), 1207-1212. [6 pages] (SCI)

[19] Quansheng Liu. Asymptotic properties of supercritical age-dependent branching processes. *Stoch. Proc. Appl.* 82 (1999) 61-87. [27 pages] (SCI)

[20] Quansheng Liu and N.R.Shieh. A uniform limit theorem for the branching measure on a Galton- Watson tree. *Asian J. Math.* Vol. 3, No. 2 (1999), 381-386. [6 pages] (SCI)

[21] Quansheng Liu. Fixed points of a generalized smoothing transformation and applications to branching random walks. *Adv. Appl. Prob.* 30 (1998), 85-112. [28 pages] (SCI)

[22] Quansheng Liu. Sur une équation fonctionnelle et ses applications: une extension du théorème de Kesten -Stigum concernant des processus de branchement. *Adv. Appl. Prob.* 29 (1997), 353-376. [24 pages] (SCI)

[23] Quansheng Liu. The exact Hausdorff dimension of a branching set. *Prob. Th. Rel. Fields*, 104 (1996), 515-538. [24 pages] (SCI)

[24] Quansheng Liu. On the survival probability of a branching process in a random environment. *Ann. Inst. Henri Poincaré*, vol. 32, no.1 (1996), pp.1-10. [10 pages] (SCI)

[25] Dao-Chun Sun and Quan-Sheng Liu. On the value distribution of some random analytic functions, *J. Math.*, Vol. 10, no. 3 (1990), pp.286-298.

[26] Quan- Sheng Liu. On the Ritt order of an entire function defined by an L-Dirichletian element, *Approx.Theory & its Appl.* 5 (3) (1989) 55-67.

[27] Quan-Sheng Liu. On the growth of some random hyperdirichlet series, *Chin. Ann. of Math.*, 10 B (2) (1989) 214-220. (SCI)

[28] Quan-Sheng Liu. On the growth of entire functions defined by B-Dirichletian series, *J. Wuhan Univ. (Natural Sci.ed.)*, no.4 (1989) 1-7.

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A2 : articles dans des conférences internationales à comité de lecture et actes publiés

[30] Quansheng Liu: Branching Random Walks in Random Environment. Proceedings of the 4th International Congress of Chinese Mathematicians, 2007 (ICCM 2007), Vol. II, 702-719. Eds.: L. Ji, K. Liu, L. Yang, S.-T. Yau. (Conférence invitée de 45 minutes)

[31] Feng Xue, Quansheng Liu and Jacques Froment. An a contrario approach for parameters estimation of a motion-blurred image. The 6th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition, 2007. Eds.: A.L.Yuille et al. EMMCVPR 2007, LNCS 4679, pp. 267-279.

[32] Feng Xue, Quansheng Liu and Wei-hong Fan. Iterative Image Restoration using a Non-Local Regularization Function and a Local Regularization Operator. The 18th International Conference on Pattern Recognition, 2006 (IEEE ICPR 2006), Vol 3, 766-769.

[33] Quansheng Liu. The branching measure, Hausdorff and packing measures on the Galton-Watson tree. In Mathematics and Compute Science, Trends in Mathematics, 2000, 251-263, Birkhauser: Verlag Basel. [13 pages]

[34] Quansheng Liu and Alain Rouault. On two measures defined on the boundary of a branching tree. In "Classical and modern branching processes", ed. K.B. Athreya and P. Jagers. IMA Volumes in Mathematics and its applications, vol. 84, 1997, pp.187-202. Springer-Verlag. [16 pages]

[35] Quansheng Liu. The growth of an entire characteristic function and the tail probability of the limit of a tree martingale. In Trees, Progress in Probability, vol.40 (1996), pp 51-80. Birkhauser: Verlag Basel, Eds.B.Chauvin, S.Cohen, A.Rouault. [30 pages]

A3 : articles dans des actes de séminaires

[36] Quansheng Liu. On the integrability of the limit of a supercritical branching process. Fascicule de Probabilités, Publ. Inst. Rech. Math. Rennes (1995). [4 pages]

[37] Quansheng Liu. Flows in networks and Hausdorff measures associated, with applications to random fractal sets in Euclidian space. Fascicule de Probabilités, Publ. Inst. Rech. Math. Rennes (1994). [77 pages]

A4 : Thèses et HDR

[38] Quansheng Liu. Processus de Branchement, Cascades Multiplicatives et Fractals Aléatoires. Théorèmes Limites pour des Processus Indexés par un Arbre. Texte de Synthèse pour l'Habilitation à Diriger des Recherches, IRMAR, Univ. Rennes 1, 2000.

[39] Quansheng Liu. Sur quelques problèmes à propos des processus de branchement, des flots dans les réseaux et des mesures de Hausdorff associées. Thèse de doctorat, Université Paris 6, 1993.

[40] Quansheng Liu. On the growth and the value distribution of some random series of functions. Thèse d'étudiant-chercheur (Bac.+7ans), 1987, Univ. Wuhan, Chine.

A5 : Rapports de recherches

[41] Quansheng Liu. Network flows, random cascades and Hausdorff measures on Galton-Watson trees. Research report IMS-98-06 (031), Institute of Mathematical Sciences, The Chinese University of Hong Kong, April 1998. [45 pages]

[42] Quansheng Liu. Etudes des équations d'évolution à 2 phases. E.D.F. - D.E.R. CHATOU, Laboratoire National d'Hydraulique, 1991.