List of publications

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FIVE SELECTED PUBLICATIONS

- Edge-reinforced random walk, vertex-reinforced jump process and the supersymmetric hyperbolic sigma model, with Christophe Sabot, Journal of European Mathematical Society, (2015), No. 17, 2353-2378.

- Vertex-reinforced random walk on $\mathbb{Z}$ eventually gets stuck on five points, Annals of Probability 32 (2004), no.3B, 2650-2701.

- Diffusivity bounds for 1d Brownian polymers, with B. Tóth and B. Valkó, Annals of Probability (2012), Vol. 40, No. 2, 695-713.

- When can the two-arm bandit algorithm be trusted?, with D. Lamberton and G. Pagès, Annals of Applied Probability 14 (2004), no.3, 1424-1454.

- An asymptotic result for Brownian polymers, with T. Mountford, Annales de l'Institut Henri Poincaré, Probabilités et Statistiques (2008), Vol. 44, No.1, 29-46.

  Annales de l'Institut Henri Poincaré 2008 Prize (attributed in 2010).

LIST of PUBLISHED PAPERS

- Edge-reinforced random walk, vertex-reinforced jump process and the supersymmetric hyperbolic sigma model, with Christophe Sabot, Journal of European Mathematical Society (2015), No. 17, 2353-2378.

- Transience of Edge-reinforced random walks, with M. Disertori and C. Sabot, Communications in Mathematical Physics 339 (2015), No. 1, 121-148.

- Inverting Ray-Knight identity, with C. Sabot, Probability Theory and Related Fields (2015), Online First.

- Some dynamics of signaling games, with S. M. Huttegger, B. Skyrms and E. O. Wagner, Proceedings of the National Academy of Sciences USA 111 (2014), supp. 3, 10873-10880.

- Online learning as stochastic approximation of the regularization paths, with Y. Yao, IEEE Transactions in Information Theory 60 (2014), No. 9, 5716-5735.

- Diffusivity bounds for 1d Brownian polymers, with B. Tóth and B. Valkó, Annals of Probability (2012), Vol. 40, No. 2, 695-713.

- On ergodic two-armed bandits, with P. Vandekerkhove, Annals of Applied Probability (2012), Vol. 22, No. 2, 457-476.

- Dynamics of vertex-reinforced random walks, with M. Benaïm, Annals of Probability (2011), Vol. 39, No. 6, 2178-2223.

- An asymptotic result for Brownian polymers, with T. Mountford, Annales de l'Institut Henri Poincaré, Probabilités et Statistiques (2008), Vol. 44, No.1, 29-46.
  Annales de l'Institut Henri Poincaré 2008 Prize (attributed in 2010).

- What is the difference between a square and a triangle? with V. Limic, In and out of equilibrium 2. Series: Progress in Probability (2008), Vol. 60, 481–496, Birkhäuser.

- Attracting edge and strongly edge reinforced random walks, with V. Limic, Annals of Probability (2007), Vol. 35, No. 5, 1783-1806.

- Vertex-reinforced random walk on $\mathbb{Z}$ eventually gets stuck on five points, Annals of Probability 32 (2004), no.3B, 2650-2701.

- Generalized urn models of evolutionary processes, with M. Benaïm and S. Schreiber, Annals of Applied Probability 14 (2004), no.3, 1455-1478.

- When can the two-arm bandit algorithm be trusted?, with D. Lamberton and G. Pagès, Annals of Applied Probability 14 (2004), no.3, 1424-1454.

- Pièges répulsifs, Comptes rendus de l'Académie des Sciences 330 (2000), Série I, p.125-130.

PREPRINTS

- Reinforcement learning in social networks, available on
  http://arxiv.org/abs/1601.00667

- The Vertex Reinforced Jump Process and a Random Schrödinger operator on finite graphs, available on http://arxiv.org/abs/1507.04660

- Reinforcement learning in signaling game, with Y. Hu and B. Skyrms, available on http://arxiv.org/abs/1103.5818.

- Localization of Reinforced Random Walks, available on
  http://arxiv.org/abs/1103.5536.

WORKING PAPERS

- The r-dependent Edge-reinforced random walk and its continuous-time counterpart, with S. Bacallado and C. Sabot.

- The reversed VRJP and Gaussian Free Field coupling, with T. Lupu and C. Sabot.

- On the speed of Narendra Strategy for Ergodic Bandits, with N. Korda.

- Gittins index asymptotics, with N. Korda.

- Repulsive subsets and noise instability.

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