

A random model of publication activity

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A discrete model, inspired by publication activity, is introduced. It includes an increasing number of objects equipped with positive weights, which also increase with time. The random evolution of the model is driven by a weight dependent dynamics in such a way that the empirical weight distribution converges weakly with probability 1, and the limit law has a regularly varying tail. The probabilistic analysis of the model leads to a renewal-like recursion which is interesting in its own right.