

Peter Kevei

Mathematics > Probability

(Submitted on 13 Jul 2011)

Search or Article-id

(<u>Help</u> | <u>Advance</u> All papers

Download:

- PDF
- PostScript
- Other formats

Current browse cont math.PR

< prev | next >

new | recent | 1107

Change to browse b

References & Citatio

• NASA ADS



We investigate the inhomogeneous Galton--Watson processes with immigration, where $\rho_{r,s}$ the offspring means in the $n^{textrm{th}}$ generation tends to 1. We show that if the second derivatives of the offspring generating functions go to 0 rapidly enough, then the asymptotics are the same as in the INAR(1) case, treated by Gy\"orfi et al. We also determine the limit if this assumption does not hold showing the optimality of the conditions.

Asymptotics of nearly critical Galton-

Watson processes with immigration

Comments:	25 pages
Subjects:	Probability (math.PR)
MSC classes:	60J80
Journal reference:	Acta Sci. Math. (Szeged), 77 (3-4), 2011, 681-702
Cite as:	arXiv:1107.2440 [math.PR]
	(or arXiv:1107.2440v1 [math.PR] for this version)

Submission history

From: Peter Kevei [view email] [v1] Wed, 13 Jul 2011 00:17:43 GMT (14kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.