arXiv.org > cs > arXiv:1107.3818

Search or Article-id

(Help | Advanced search)

Go!

All papers





# **Conditioned Poisson distributions** and the concentration of chromatic numbers

John Hartigan, David Pollard, Sekhar Tatikonda

(Submitted on 19 Jul 2011)

The paper provides a simpler method for proving a delicate inequality that was used by Achlioptis and Naor to establish asymptotic concentration for chromatic numbers of Erdos-Renyi random graphs. The simplifications come from two new ideas. The first involves a sharpened form of a piece of statistical folklore regarding goodness-of-fit tests for two-way tables of Poisson counts under linear conditioning constraints. The second idea takes the form of a new inequality that controls the extreme tails of the distribution of a quadratic form in independent Poissons random variables.

Comments: Unpublished paper from June 2008

**Discrete Mathematics (cs.DM)**; Statistics Theory (math.ST) Subjects:

Cite as: arXiv:1107.3818 [cs.DM]

(or arXiv:1107.3818v1 [cs.DM] for this version)

#### **Submission history**

From: David Pollard [view email]

[v1] Tue, 19 Jul 2011 19:39:08 GMT (61kb,D)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

# Download:

- PDF
- Other formats

## Current browse context:

cs.DM

< prev | next > new | recent | 1107

### Change to browse by:

CS math math.ST stat

#### References & Citations

NASA ADS

# **DBLP** - CS Bibliography

listing | bibtex

John Hartigan **David Pollard** Sekhar Tatikonda

#### Bookmark(what is this?)











