arXiv.org > stat > arXiv:1106.4160

Search or Article-id

(Help | Advanced search)

All papers





Statistics > Methodology

Essentially ML ASN-Minimax double sampling plans

Eno Vangjeli

(Submitted on 21 Jun 2011)

Subject of this paper is ASN-Minimax (AM) double sampling plans by variables for a normally distributed quality characteristic with unknown standard deviation and two-sided specification limits. Based on the estimator p* of the fraction defective p, which is essentially the Maximum-Likelihood (ML) estimator, AM-double sampling plans are calculated by using the random variables p*_1 and p*_p relating to the first and pooled samples, respectively. Given p_1, p_2, {\alpha}, and {\beta}, no other AM-double sampling plans based on the same estimator feature a lower maximum of the average sample number (ASN) while fulfilling the classical two-point condition on the corresponding operation characteristic (OC).

Subjects: **Methodology (stat.ME)** Cite as: arXiv:1106.4160 [stat.ME]

(or arXiv:1106.4160v1 [stat.ME] for this version)

Submission history

From: Eno Vangjeli [view email]

[v1] Tue, 21 Jun 2011 10:32:41 GMT (20kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

Download:

- PDF
- **PostScript**
- Other formats

Current browse context:

stat.ME

< prev | next > new | recent | 1106

Change to browse by:

stat

References & Citations

NASA ADS

Bookmark(what is this?)









