

Permutation goodness of fit test for Poisson distribution

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Abstract

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2010 MSC: 00-01, 99-00

1. Methods

The permutation goodness of fit test for Poisson distribution (further called PGoF) is based on Chi Square test. The $\hat{\lambda}$ is calculated from counts of positive and negative partitions using following relationship:

$$\hat{\lambda} = -\ln \left(1 - \frac{k}{n} \right) \quad (1)$$

5 According to the MIQUE Guidelines for Digital PCR, k is number of positive partitions and n is a total number of partitions. To perform the permutation test, we firstly compute $\hat{\lambda}$ for data vector. Next, the density of

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