

Tomáš Mrkvička

Estimation of intersection intensity in a Poisson process of segments

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Abstract: The minimum variance unbiased estimator of the intensity of intersections is found for stationary Poisson process of segments with parameterized distribution of primary grain with known and unknown parameters. The minimum variance unbiased estimators are compared with commonly used estimators.

Keywords: complete statistic, Poisson process, segment process, sufficient statistic, intensity of intersections

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