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**Asymptotically optimal criteria for testing hypotheses on the distribution of a random vector. II.** (Russian. English summary) [Zbl 1476.62049](#)

*Mat. Vopr. Kriptografii* 6, No. 4, 49-64 (2015).

Summary: Asymptotically optimum criteria for testing two simple hypotheses on the vector parameters of the distribution of discrete noise in the combined semicontinuous communication channel are constructed. A probabilistic characteristics of these criteria (in particular, asymptotically minimal sample size guaranteeing the given values of error probabilities of two kinds) are obtained. It is shown that the minimal sample size depends on the relations between the channel parameters.

For Part I, see [the author, *ibid.* 6, No. 3, 89–116 (2015); [Zbl 1476.62048](#)].

**MSC:**

**62F03** Parametric hypothesis testing

**94A05** Communication theory

Cited in 1 Review

**Keywords:**

asymptotically optimal criterion; combined semicontinuous communication channel; asymptotically minimal sample size

**Full Text:** [DOI](#) [MNR](#)

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