

61. On the generalized statistical distance between s samples from two normal populations.

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In a previous communication (1929, and *J.A.S.B.*, 1930) P. C. Mahalanobis had given an expression for P -dimensional statistical distance between samples from two normal populations for the case of P independent variates. In this paper the formula for P -correlated variates is discussed in detail. A preliminary survey of the possible alternative formulas (most of which can be represented by suitable geometrical elements in hyper-dimensional space) is also given.