

论文

关于多个指标之间值的转换

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摘要:

假设研究对象可以用 p 个指标来描述,记为 x_1, x_2, \dots, x_p 。进一步假设这些指标之间两两存在着单值连续函数关系,当然其确切的函数形式尚未知道。今得到这 p 个指标的 n 个样本值

关键词:

ON TRANSFORMATION OF VALUES AMONG SEVERAL VARIABLES

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Abstract:

Suppose that a research object is described by p variables, and their n observations $x_{(k1)}, x_{(k2)}, \dots, x_{(kp)}$, $k=1, \dots, n$, have been obtained. We are to find some formulae of transformation of values among several variables. This problem is proposed in quantitative transformation in many fields. For some reasons, such as the observation data are with errors or the transformation formulae are unfitting, the value x_j obtained from direct transformation (say, $x_i \rightarrow x_j$) may be different from the value x_j obtained from indirect transformation (say, $x_i \rightarrow x_i \rightarrow x_j$). In the present paper, the author employs the Generalized Model of Least Squares (GMLS) to set up the transformation formulae which make the transformation values consistent. This algorithm has been used for a practical problem and the result is satisfactory.

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