

Evaluación de la Robustez del sistema Mahalanobis-Taguchi a diferentes Arreglos Factoriales

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Resumen

Se evalúa la robustez del Sistema Mahalanobis-Taguchi a los diferentes arreglos que pudieran utilizarse para discriminar las variables consideradas en un estudio. Para esto se utilizaron diferentes niveles de fraccionado de un diseño factorial 2^k , así como todas las fracciones posibles para cada nivel, para evaluar si el resultado variaba dependiendo del arreglo empleado. Se utilizaron para este análisis los datos del estudio del cáncer de mama de Wisconsin reportados en una publicación, en cuyo análisis utilizaron un arreglo ortogonal L_{12} . En este trabajo se realizó el análisis con diseños 2^{k-k} ($k = 0, 1, 2, 3, 4$ y 5) y todas las fracciones posibles para cada valor de k , generadas con el software Minitab 15 y se generó un programa en Matlab. Los resultados demostraron que esta técnica no es robusta a los diferentes arreglos que pudieran utilizarse.

Palabras clave: robustez, sistema Mahalanobis-Taguchi, diseño factorial, arreglo ortogonal

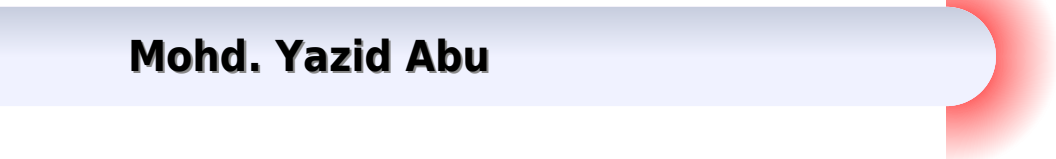
A robustness evaluation of the Mahalanobis-Taguchi System to different Factorial Arrays

The robustness of the Mahalanobis-Taguchi System to different arrays that could be used to discriminate variables in a study, is evaluated... For this, different levels of fractional factorial design 2^k were used, as well as all possible fractions for each level to find out if the results varied depending on the array utilized. For this analysis the Wisconsin's breast cancer data reported in a publication were used, in which, an orthogonal array L_{12} was employed. In this work, the analysis was performed with 2^{k-k} designs ($k = 0, 1, 2, 3, 4$ and 5) and all the possible fractions for each value of k generated using the software Minitab 15 and a Matlab program was generated. The results showed that this method is not robust to the different arrays that could be used.

Keywords: robustness, Mahalanobis-Taguchi system, factorial design, orthogonal array

Mahalanobis Taguchi System

Mohd. Yazid Abu



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