

## 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**



## **Mahalanobis Taguchi System:**

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*Mahalanobis-Taguchi Strategy* Taguchi, 2002-07-01      **Advances in Manufacturing Technology and Management** Ranganath M. Singari, Prashant Kumar Jain, Harish Kumar, 2022-11-10 This book presents the select peer reviewed proceeding of the International Conference on Advanced Production and Industrial Engineering ICAPIE 2021 held at Delhi Technological University It covers recent trends in various fields of mechanical engineering The broad range of topics and issues covered include mechanical system engineering materials engineering micro machining renewable energy industrial engineering and additive manufacturing This book will be useful for students researchers and professionals working in the area of mechanical and allied engineering discipline      *Intelligent Systems and Applications* Kohei Arai, Supriya

Kapoor, Rahul Bhatia, 2020-08-25 The book *Intelligent Systems and Applications Proceedings of the 2020 Intelligent Systems Conference* is a remarkable collection of chapters covering a wider range of topics in areas of intelligent systems and artificial intelligence and their applications to the real world The Conference attracted a total of 545 submissions from many academic pioneering researchers scientists industrial engineers students from all around the world These submissions underwent a double blind peer review process Of those 545 submissions 177 submissions have been selected to be included in these proceedings As intelligent systems continue to replace and sometimes outperform human intelligence in decision making processes they have enabled a larger number of problems to be tackled more effectively This branching out of computational intelligence in several directions and use of intelligent systems in everyday applications have created the need for such an international conference which serves as a venue to report on up to the minute innovations and developments This book collects both theory and application based chapters on all aspects of artificial intelligence from classical to intelligent scope We hope that readers find the volume interesting and valuable it provides the state of the art intelligent methods and techniques for solving real world problems along with a vision of the future research *Intregation of Mahalanobis-Taguchi System and Activity Based Costing in Decision Making for Remanufacturing* Mohd. Yazid Abu, 2016

iMEC-APCOMS 2019 Muhammed Nafis Osman Zahid, Radhiyah Abd. Aziz, Ahmad Razlan Yusoff, Nafrizuan Mat Yahya, Fazilah Abdul Aziz, Mohd Yazid Abu, 2019-10-26 This book presents the proceedings of the 4th International Manufacturing Engineering Conference and 5th Asia Pacific Conference on Manufacturing Systems iMEC APCOMS 2019 held in Putrajaya Malaysia on 21-22 August 2019 Covering scientific research in the field of manufacturing engineering with focuses on industrial engineering materials processes the book appeals to researchers academics scientists students engineers and practitioners who are interested in the latest developments and applications related to manufacturing engineering Advanced Information Systems Engineering Workshops Lazaros Iliadis, Michael Papazoglou, Klaus Pohl, 2014-06-05 This book constitutes the thoroughly refereed proceedings of five international workshops held in Thessaloniki Greece in conjunction with the 26th International Conference on Advanced Information Systems Engineering CAiSE 2014 in June 2014 The 24 full and eight short papers were carefully selected from 63 submissions The five workshops were the First International Workshop on Advanced Probability and Statistics in Information Systems APSIS the First International Workshop on Advances in Services Design Based on the Notion of Capability the Second International Workshop on Cognitive Aspects of Information Systems Engineering COGNISE the Third Workshop on New Generation Enterprise and Business Innovation Systems NGEBS and the 4th International Workshop on Information Systems Security Engineering WISSE

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