

الجامعة المستنصرية  
كلية الادارة والاقتصاد  
قسم الاحصاء

# التحليل العاملي باستخدام الارتباط القوييم (الأختزالي) مع تطبيق عملي

رسالة مقدمة الى

مجلس كلية الادارة والاقتصاد في الجامعة المستنصرية وهي جزء من متطلبات نيل  
درجة الماجستير في علوم الاحصاء

الطالب

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## **Abstract**

The canonical analysis is considered to be one of the important styles of studying the overlapping relationships between two types of variables.

The important use of this analysis is to decrease the data. Many studies use this analysis as a means for studying the overlapping relationships between two types of variables. There were no practical studies of the use of canonical analysis as a means (to decrease the data). According my view, this study aims at highlighting how to use the canonical analysis as a as one way of factor analysis, and show how to apply it in this field by dealing with a practical problem in the active domain. The practical problem includes a study of the relationship between the characteristics of a mother and the characteristics of a newborn child, by stating the most important characteristics that are the most influential according to the priority and importance.

In the order to fulfill this aim the study included four chapters. The first chapter includes the concepts and backgrounds of the factor analysis.

The second chapter deals with the canonical correlation analysis. The third chapter tackles the practical aspect. The fourth chapter states the conclusions and recommendations.