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Cours et études de cas

Masters et Écoles d'ingénieurs

ANALYSES FACTORIELLES SIMPLES ET MULTIPLES

Objectifs, méthodes et interprétation

4^e édition

*Brigitte Escofier
Jérôme Pages*

DUNOD

Analyses Factorielles Simples Et Multiples Objectifs Meacutethodes Et Interpreacutetation Matheacutematiques

Jérôme Pagès



Analyses Factorielles Simples Et Multiples Méthodes Et Interprétation Méthodologiques:

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Analyse factorielle multiple avec R Jérôme Pagès, 2013-09-01 T00:00:00+02:00 L'analyse factorielle multiple AFM est la méthode de référence pour analyser des tableaux de données dans lesquels un ensemble d'individus est décrit par plusieurs groupes de variables ces derniers pouvant être quantitatifs et ou qualitatifs Ce type de tableau multiple se rencontre dans de nombreux domaines comme les enquêtes les questionnaires comportent toujours plusieurs thèmes des opinions des comportements etc ou les sciences expérimentales dans l'industrie agro-alimentaire par exemple on caractérise les produits la fois par des données physico-chimiques et des données issues de dégustations Ce livre est destiné aux utilisateurs confrontés des tableaux multiples Une large place est accordée aux applications et la mise en œuvre via R L'objectif est de rendre l'utilisateur autonome dans l'application de l'AFM sur ses données Dans cet esprit ce livre introduit une des principales caractéristiques de la méthode intuitivement à partir d'exemples donne les éléments théoriques nécessaires pour une compréhension en profondeur avec un recours au raisonnement géométrique systématique illustre les résultats à partir des exemples introductifs détaille la marche à suivre pour appliquer l'AFM avec le package FactoMineR ou via des codes R Ces codes sont disponibles sur le site du LMA 2 Agrocampus Cet exposé est complété par une présentation des méthodes classiques ACP et ACM elle aussi fondée sur des exemples L'ensemble constitue l'état de l'art aujourd'hui en analyse factorielle Jérôme Pagès est professeur de statistique Agrocampus Rennes où il dirige le laboratoire de mathématiques appliquées LMA2

Analyses factorielles simples et multiples Brigitte

Escofier, Jérôme Pagès, 2016-06-01 Xavier de La Tribonnière est docteur en médecine responsable de l'Unité Transversale de l'Éducation du Patient UTEP du CHU de Montpellier Constamment rdit depuis sa première parution cet ouvrage est devenu LE classique de l'analyse factorielle Avec l'arrivée des Big Data l'analyse factorielle multiple qui permet de traiter simultanément des ensembles de données hétérogènes voit s'étendre son champ d'applications Dans cette cinquième édition entièrement révisée ont été ajoutés une série d'exercices de synthèse consistant à mettre en œuvre une méthode d'analyse sans le recours à un programme en profitant de la géométrie particulière de données extrêmement simples C'est l'occasion de comprendre en profondeur le fonctionnement des méthodes en particulier pourquoi et comment on peut analyser simultanément des variables quantitatives et qualitatives deux études de cas s'appuyant sur une liste de questions qui facilitent l'auto-évaluation quant au choix d'une méthodologie et celui de l'interprétation L'ouvrage est destiné aux élèves ingénieurs ainsi qu'aux étudiants en master scientifique mathématiques appliquées économie géométrie biologie etc

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