Introduction to Factor Analysis

This half-day workshop focuses on the fundamental concepts of factor analyses in multivariate data analysis. Factor analytical procedures were originally developed to study underlying dimension among selected variables.

Purpose of this study

Factor analysis is a statistical way of condensing the information contained in a number of original variables into a smaller number of dimensions, often called factors, without losing much of the information. The purpose is to remove all redundant or highly correlated variables, replacing the remaining ones with a smaller number of variables, often called factors. It can also be used to verify the conceptualization of a construct of interest.

Focus

The focus of this workshop will be on the main areas such as: data handling, correlation matrix, extraction of initial factor solution, rotation and interpretation of factors and construction of scales or factor scores to use in further analyses.

Who should attend

Those who want to know how to perform factor analysis in SPSS and interpret the results. Researchers who want to improve their understanding of the techniques of factor analysis.

Prerequisite

Basic knowledge of statistics and SPSS

Duration

- Half-day
- 9.00 am to 1.00 pm (registration at 8.30 am.)

JCU M

The Julius Centre University of Malaya (JCU M) was established in 2008. It aims to be the regional centre of excellence for education and research in the disciplines of Clinical Epidemiology and Evidence-based Medicine. The current head of this centre is Prof Dr Awang Bulgiba Awang Mahmud.

Date: 14 June 2012
9.00 a.m. - 1.00 p.m.

Venue: Department of Social and Preventive Medicine, Faculty of Medicine, University of Malaya

Website: http://spm.um.edu.my/
Assoc.Prof. Dr Karuthan Chinna

Dr Karuthan Chinna is an Associate Professor at the Department of Social and Preventive Medicine University Malaya. He has a Master Degree in Applied Statistics from the Michigan State University, USA and a PhD in Multivariate Quality Control from the Multimedia University, Cyberjaya.

He has been teaching statistics for the last 28 years and also very active in research and consulting. He has authored and co-authored many national and international peer reviewed journal articles and has presented many papers at national and international conferences. He has published a book on Biostatistics. He has been a statistical consultant for several projects at the Ministry of Health and other institutions.

His areas of interest include: - Multivariate Data Analysis, Structural Equation Modelling, Meta-analysis, Statistical Process Control, Re-sampling Techniques and Biostatistics.

Aim

After the workshop, participants will appreciate the basis of

- Exploratory factor analysis
- Data extraction
- Factor rotation
- Naming of factors
- Using the factor scores

Fees

UM students / staff : RM 50
General participants : RM 100

The registration fees includes course materials and refreshments. Seats are limited to fifty participants only who have fully paid the registration fee. The selected participants will be notified by e-mail after which he/she will have to pay the registration fees in full within 7 days of the workshop, otherwise his/her place maybe allocated to another participant.

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Registration Form

Name : Prof / Dr / Mr / Mrs / Ms
______________________________
(please print name in block letter as you wish it to appear in the certificate)
Institution / Department:
______________________________
______________________________

Contact Address :
______________________________
______________________________
______________________________

Tel : ____________
E-mail: ________________
Fax : ________________
Signature: __________________

Sponsorship :

☐ Public (e.g. MOH, Government Universities, etc)
☐ Private (Company name) : ________________
☐ Self

All payment must be submitted by 11 June 2012. Cheque/Bank Draft to be made payable to: BENDAHARI UNIVERSITI MALAYA

Please send in the registration form and Cheque/Bank Draft to the correspondence address.