ISYS3401 Week 9 Tutorial

This tutorial assumes you have followed the demonstration of SPSS in the lecture. Otherwise, you have to go through the lecture notes for SPSS demonstration yourself.

Exercise

1. Download from Canvas and open the **ISYS3401 Tutorial Dataset.xlsx** in SPSS. Imagine this is your pilot testing, you have collected the data and input into this spreadsheet. The variables are represented in columns, and each row represents responses from a respondent.

2. Run Factor Analysis in SPSS – you can use the same parameters for the options as initial selections shown on the lecture slide. Here, we use factor analysis to check the number of factors (constructs) we should have, and which variables from the model we should keep.

3. How many factors (constructs) is recommended in SPSS?

4. Next, examine the convergent validity and discriminant validity, and then run the analysis in SPSS again.

5. Examine the rotated component matrix, do you need to take any action, and why?

6. Assuming you have taken appropriate action in (5), run the analysis in SPSS again.

7. What are your new values in your Rotated Component Matrix?

8. Now, assuming these are the statements/questions used for variables VVLT for construct Voluntariness:

    VVLT1: My superiors expect me to use Voice Mail.

    VVLT2: My use of Voice Mail is voluntary.

    VVLT3: My boss does not require me to use Voice Mail.

    VVLT4: Although it might be helpful, using Voice Mail is certainly not compulsory in my job.

    Can you use above statement(s)/question(s) to justify your action in (5) to (7)??

9. What action would you take, if any, before doing your main data collection?

    Do it as an individual, and then discuss as a group.