

Extra work assignment

Note: Send answers and R script to martinkova@cs.cas.cz

Name:

1 Introduction

Ex. 1.1 Read introduction of ShinyItemAnalysis manual which is available at

http://www.cs.cas.cz/martinkova/documents/manual_L1.pdf

and provide at least 5 extensions, additional references or editions.

2 Slides and HW assignments

Ex. 2.1 Choose one of the lessons and read detailly its slides and HW assignment. Provide at least 5 extensions, additional references or editions.

3 Reliability and validity

Ex. 3.1 Draw plot from slide 21 in slides of lesson 3. Prepare similar plot for restricted samples as it is displayed at slide 19.

Ex. 3.2 Read article on Model-based inter-rater reliability estimate, see <https://doi.org/10.1371/journal.pone.0203002>. Simulate data from the article based on provided results and supplemental code. In the data, the collumns should represent: applicant ID, rater ID, school ID, internal/external status, rating on the 9 subcomponents. Additionally, further collumns may represent gender and criterions (experience, licensure score or VA).