

Mini-Lecture: Brief outline of the math behind MCIA

Max Mattessich

Joaquin Reyna

Anna Konstorum

9/1/2022

Introduction

The Mini-Lecture, Brief outline of the math behind MCIA, covered the mathematical aspects of MCIA.

This second Mini-Lecture will cover the full MCIA pipeline, with a focus on the standard preprocessing of multi-block data and post-processing following MCIA.

The target audience of this Mini-Lecture are bioinformaticians or any other general practitioners.

. . . (tbd)

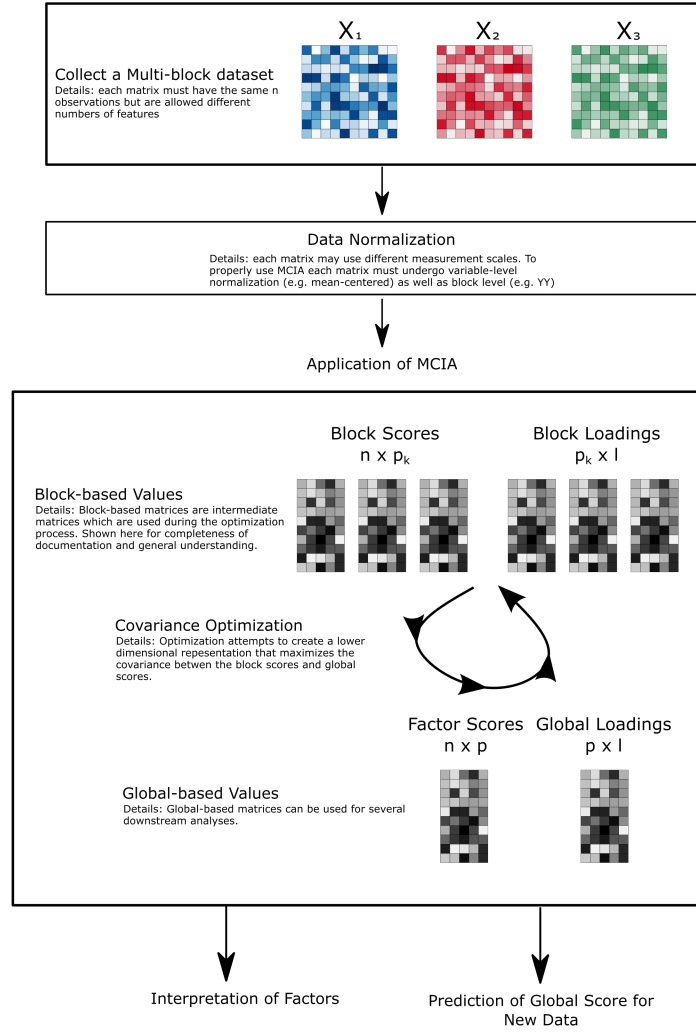


Figure 1: Overview of the MCIA decomposition pipeline. There are three data blocks X^1 , X^2 , and X^3 which are being decomposed via MCIA to produce a global scores matrix.