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Correction

Correction: Common and Cluster-Specific Simultaneous Component Analysis

The PLOS ONE Staff

In the Methods section, there are errors in the first and second equation in the section titled "2.2. CC-SCA-ECP Model." The publisher apologizes for these errors. The second line after the first equation incorrectly describes the Equal Cross Product (ECP) constraints. The correct equation is:

$$X_i = F_{i,comm} B_{comm}' + \sum_{k=1}^k P_{ik} F_{i,spec}^{(k)} B_{spec}^{(k)'} + E_i,$$

with Equal Cross Product (ECP) constraints as $\frac{1}{N_i} F_{i,comm}' F_{i,comm} = \Phi_{Q,comm}$, $\frac{1}{N_i} F_{i,spec}^{(k)'} F_{i,spec}^{(k)} = \Phi_{Q,spec}^{(k)}$, and with $F_{i,comm}' F_{i,spec}^{(k)} = 0$ to ensure separation of common and specific components[...]

There is an additional error in the second equation, many numbers were added. The correct equation is:

$$X = \begin{bmatrix} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \\ X_6 \end{bmatrix} = \begin{bmatrix} F_{1,comm} & F_{1,spec}^{(1)} & [0] \\ F_{2,comm} & F_{2,spec}^{(1)} & [0] \\ F_{3,comm} & F_{3,spec}^{(1)} & [0] \\ F_{4,comm} & F_{4,spec}^{(1)} & [0] \\ F_{5,comm} & [0] & F_{5,spec}^{(2)} \\ F_{6,comm} & [0] & F_{6,spec}^{(2)} \end{bmatrix} \begin{bmatrix} B_{comm}' \\ B_{spec}^{(1)'} \\ B_{spec}^{(2)'} \end{bmatrix} + \begin{bmatrix} E_1 \\ E_2 \\ E_3 \\ E_4 \\ E_5 \\ E_6 \end{bmatrix}.$$

Reference

1. De Roover K, Timmerman ME, Mesquita B, Ceulemans E (2013) Common and Cluster-Specific Simultaneous Component Analysis. PLoS ONE 8(5): e62280. doi:10.1371/journal.pone.0062280

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