Network Analysis used in JASP (version 0.18.0.0; JASP Team, 2023) for replication

Reproducing the Network Analysis in JASP (Version 0.18.0.0)

The network analysis (NA) reported in this manuscript was conducted using **JASP version 0.18.0.0**, which internally leverages R's `bootnet` and `qgraph` packages. The following guide outlines exactly how to reproduce the analysis, including all relevant parameters and visualization settings.

☑ What You'll Need

- **JASP version 0.18.0.0**
  Download from: https://jasp-stats.org/previous-versions/
- **Dataset file**:
  `Data_Availability_Network Model for Human Playfulness During War.sav`

🧭 Step-by-Step Instructions

1. Open JASP 0.18.0.0

2. Load the Dataset

- Go to **"Open" → "Computer" → "Browse"**
- Select the file:
  `Data_Availability_Network Model for Human Playfulness During War.sav`

3. Navigate to the Network Module

- In the top menu, select **"Network"**
- From the dropdown, choose **"Classic Network"**

4. Select Variables

Under **"Variables"**, include the following 14 variables:

- `FRAME_Coping`
- `FRAME_Playfulness`
- `FRAME_Control`
- `FRAME_Trans`
- `OLIW_S_Other.D`
- `OLIW_S_Lighth`
- `OLIW_S_Intellect`
- `OLIW_S_Whimsical`
- `BRS_AVG`
- `PCL_5_Intrusion`
- `PCL_5_Avoidance`

PLAYFULNESS DURING WAR

- `PCL_5_NC`
- `PCL_5_Arousal`
- `DES_B_AVG`

5. Estimation Settings

- **Estimator**: `EBICglasso`
- **Enable all output**: Check all boxes under:
  - `Network Plot`
  - `Centrality Plot`
  - `Centrality Table`
  - `Clustering Plot`
  - `Clustering Table`
  - `Weights Matrix`

6. Analysis Options (EBICglasso)

- **Correlation method**: `Auto`
- **Centrality settings**: `Normalized`
- **Network**: `Weights` and `Signed`
- **Missing values**: `Exclude pairwise`
- **Tuning parameter**: `0.5`

7. Graphical Options

- **Node palette**: `ggplot2`
- **Edge size**: `1`
- **Maximum edge strength**: `0.50`
- **Minimum edge strength**: `0`
- **Layout**: `Spring`
  - **Spring repulsion**: `1`
- **Centrality measures**: Check all:
  - `Betweenness`
  - `Closeness`
  - `Strength`
  - `Expected influence`

(These settings allow for consistent visual interpretation of edge saturation and node proximity across networks.)

📈 Interpretation Notes

- Positive edges appear in blue, negative edges in red
- Thicker and more saturated lines indicate stronger partial correlations
- Node position reflects relational centrality — more connected nodes cluster closer together

💾 Exporting Results

- Use **“File” → “Export”** to save plots, tables, or the full results window as HTML or image files.

💬 Additional Notes

- All procedures follow the description in the Methods section of the manuscript.
- The analysis focuses on partial correlations between psychological constructs and uses LASSO regularization via EBICglasso to mitigate false positives.
- A complete R-based replication using `bootnet` and `qgraph` is available separately to support transparency and reproducibility across platforms.