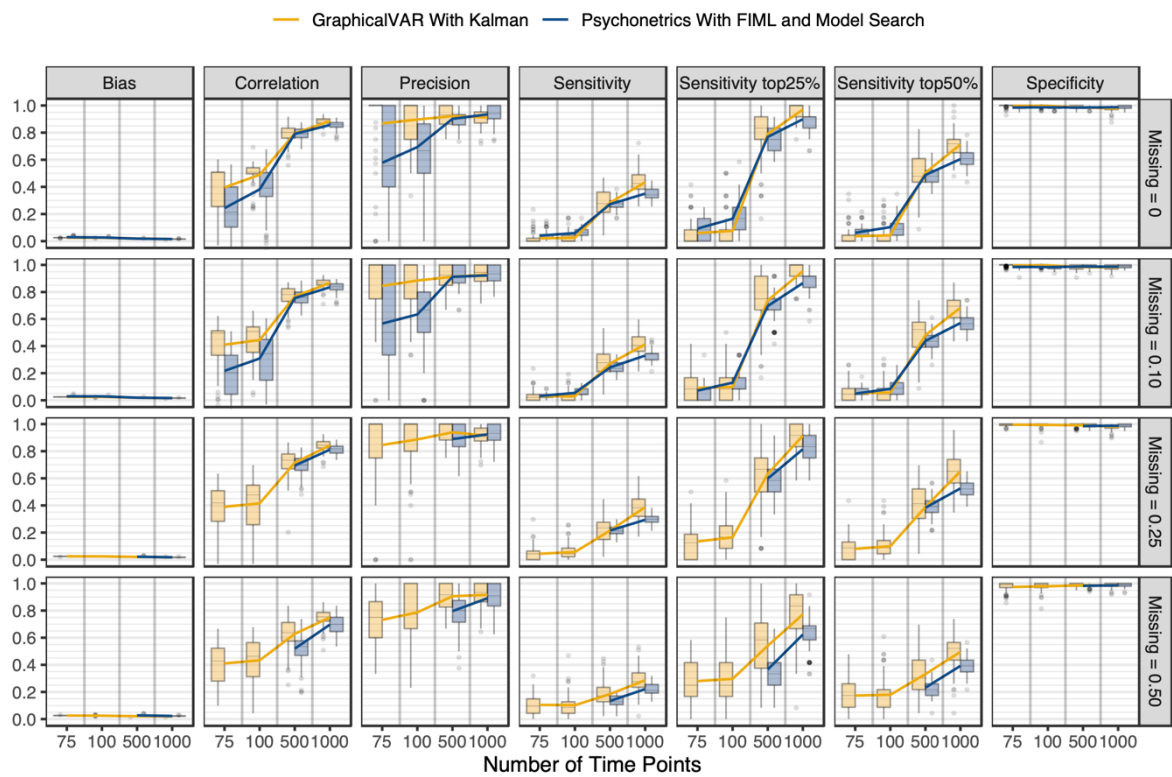


Supplementary Materials

Simulation Results for the Temporal Networks Estimated from Data Generated According to the Parameters Estimated from Dataset 1.

Figure 1

Temporal Network Simulation Results from Data Generated According to the Temporal Parameters Estimated from Dataset 1 with 12 Nodes

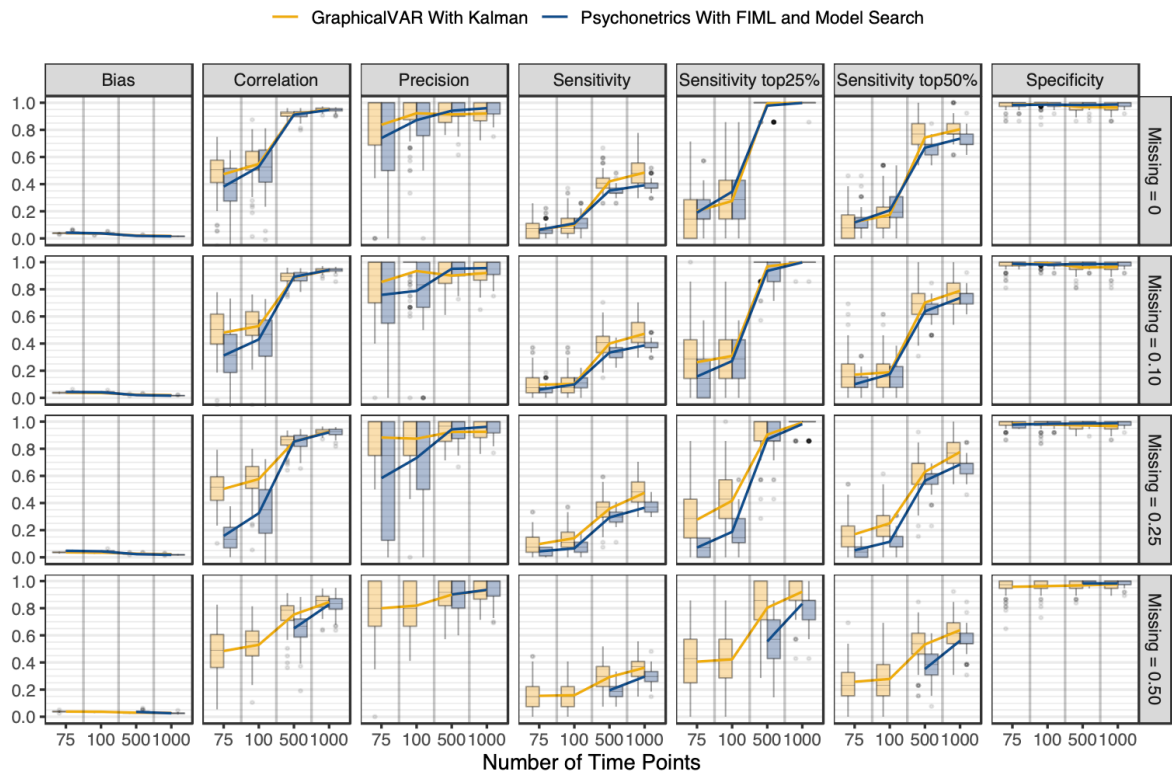


Note. The upper and lower bounds of the boxplot represent the 75th and 25th percentiles. The upper whisker reaches the maximum value within 1.5* the interquartile range (IQR) from the upper bound. The lower whisker reaches the minimum value within 1.5 * IQR from the lower bound. Outliers that exceed the whiskers are represented as points. The lines plot the means in each different condition.¹

¹ 24 outlier correlations between the data-generating and estimated networks ranging from $r = -0.069$ to $r = -0.005$ were not plotted, but they were included in the summary statistics. These were found with $N = 75$ and $N = 100$, and proportion of missing data = 0, 0.10, 0.25.

Figure 2

Temporal Network Simulation Results from Data Generated According to the Temporal Parameters Estimated from Dataset 1 with 8 Nodes

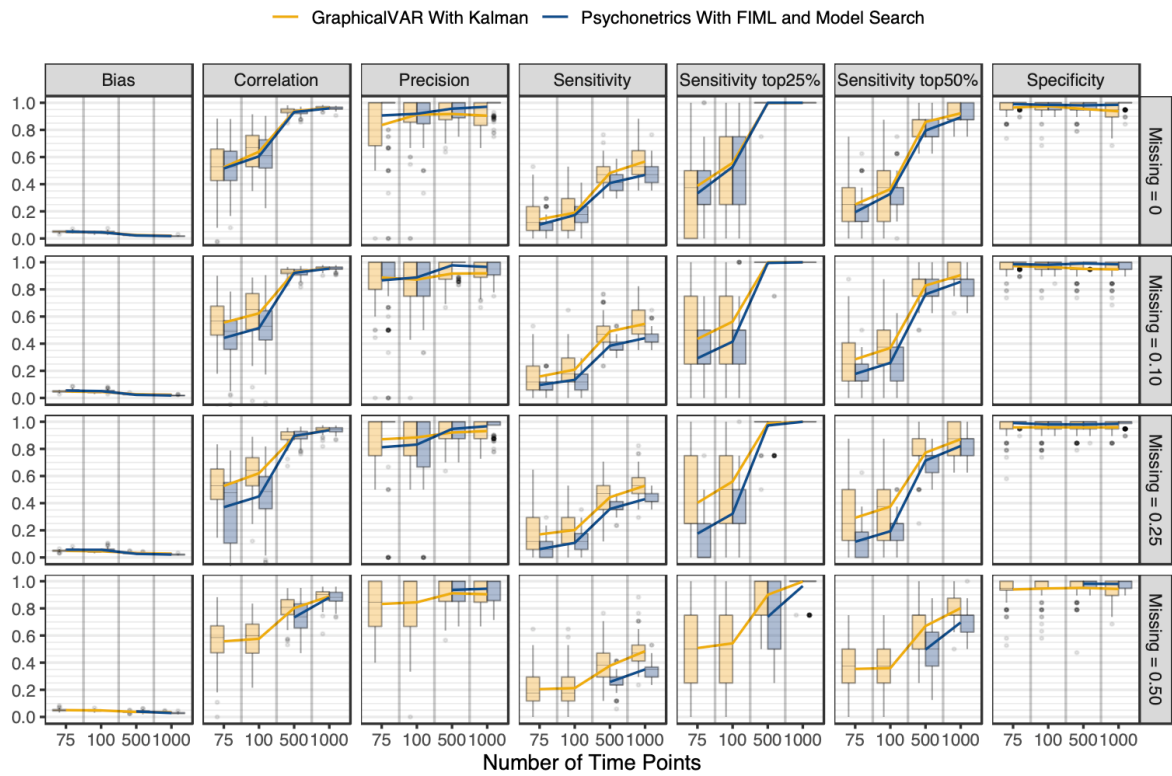


Note. The upper and lower bounds of the boxplot represent the 75th and 25th percentiles. The upper whisker reaches the maximum value within 1.5* the interquartile range (IQR) from the upper bound. The lower whisker reaches the minimum value within 1.5 * IQR from the lower bound. Outliers that exceed the whiskers are represented as points. The lines plot the means in each different condition.²

² 23 outlier correlations between the data-generating and estimated networks ranging from $r = -0.077$ to $r = -0.011$ were not plotted, but they were included in the summary statistics. These were found with $N = 75$ and $N = 100$, and proportion of missing data = 0, 0.10, 0.25.

Figure 3

Temporal Network Simulation Results from Data Generated According to the Temporal Parameters Estimated from Dataset 1 with 6 Nodes



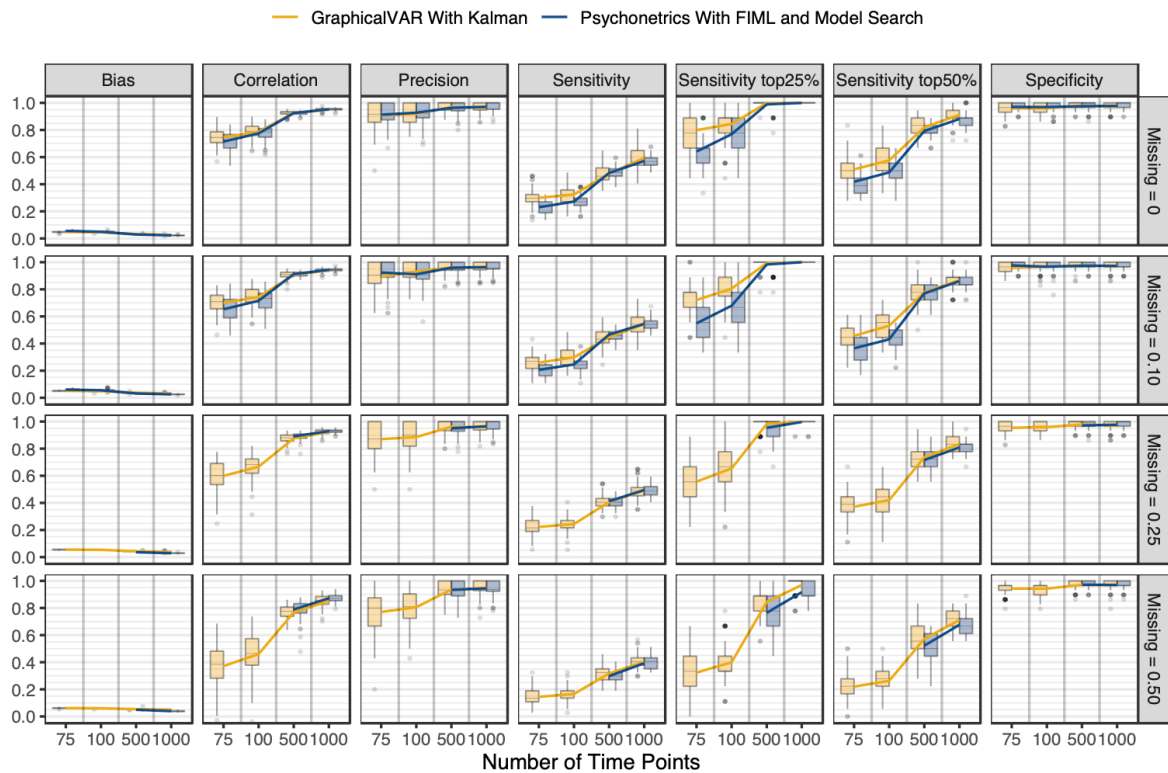
Note. The upper and lower bounds of the boxplot represent the 75th and 25th percentiles. The upper whisker reaches the maximum value within 1.5* the interquartile range (IQR) from the upper bound. The lower whisker reaches the minimum value within 1.5 * IQR from the lower bound. Outliers that exceed the whiskers are represented as points. The lines plot the means in each different condition.³

³ 29 outlier correlations between the data-generating and estimated networks ranging from $r = -0.164$ to $r = -0.0002$ were not plotted, but they were included in the summary statistics. These were found with $N = 75$ and $N = 100$.

Simulation Results for the Contemporaneous Networks Estimated from Data Generated According to the Parameters Estimated from Dataset 1

Figure 4

Contemporaneous Network Simulation Results from Data Generated According to the Contemporaneous Parameters Estimated from Dataset 1 with 12 Nodes

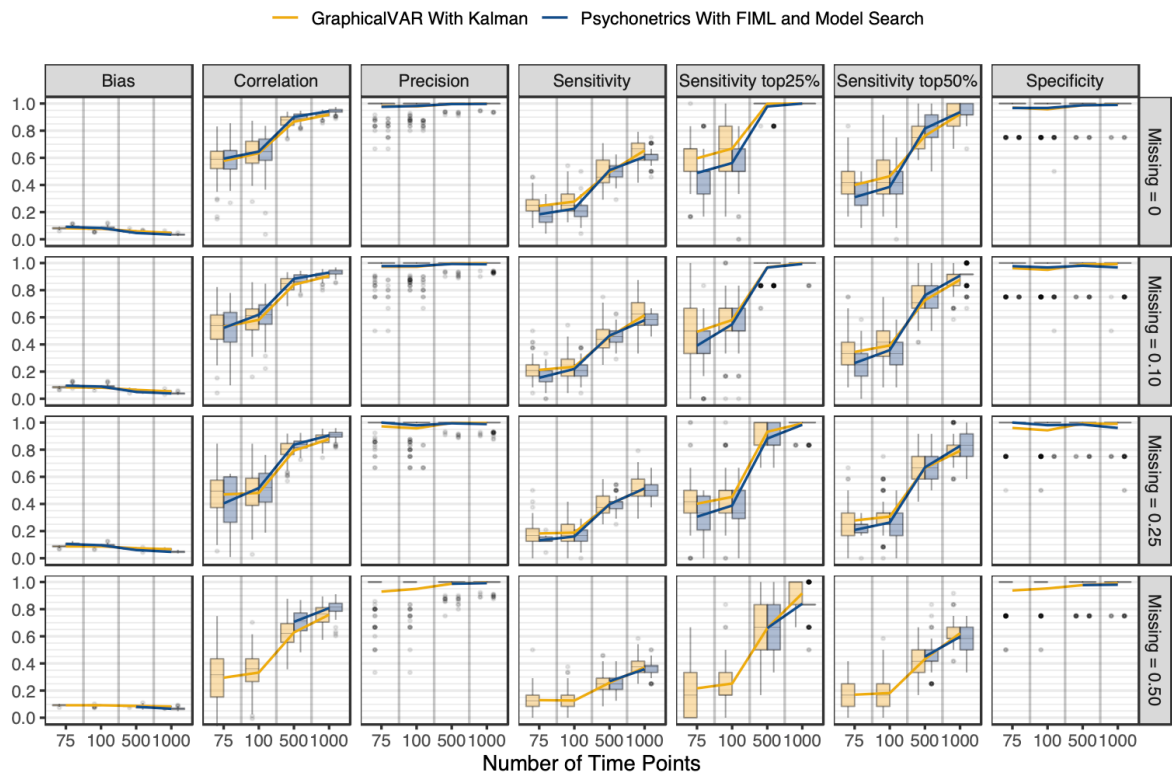


Note. The upper and lower bounds of the boxplot represent the 75th and 25th percentiles. The upper whisker reaches the maximum value within 1.5* the interquartile range (IQR) from the upper bound. The lower whisker reaches the minimum value within 1.5 * IQR from the lower bound. Outliers that exceed the whiskers are represented as points. The lines plot the means in each different condition.⁴

⁴ Two outlier correlations between the data-generating and estimated networks ($r = -0.067$, $r = -0.028$) were not plotted, but they were included in the summary statistics. These were found with $N = 75$ and $N = 100$, proportion of missing data = 0.50, and graphicalVAR.

Figure 5

Contemporaneous Network Simulation Results from Data Generated According to the Contemporaneous Parameters Estimated from Dataset 1 with 8 Nodes

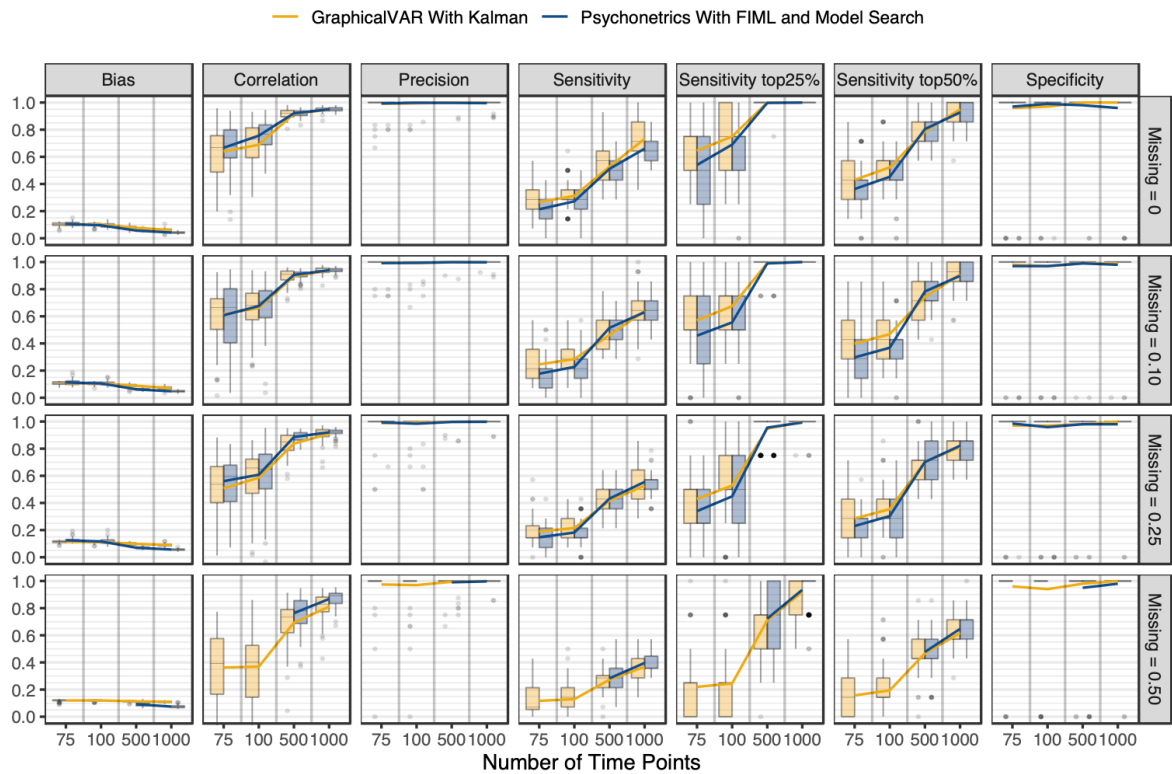


Note. The upper and lower bounds of the boxplot represent the 75th and 25th percentiles. The upper whisker reaches the maximum value within 1.5* the interquartile range (IQR) from the upper bound. The lower whisker reaches the minimum value within 1.5 * IQR from the lower bound. Outliers that exceed the whiskers are represented as points. The lines plot the means in each different condition.⁵

⁵ Seven outlier correlations between the data-generating and estimated networks ranging from $r = -0.164$ to $r = -0.007$ were not plotted, but they were included in the summary statistics. These were found with $N = 75$ and $N = 100$, proportion of missing data = 0.50, and graphicalVAR.

Figure 6

Contemporaneous Network Simulation Results from Data Generated According to the Contemporaneous Parameters Estimated from Dataset 1 with 6 Nodes



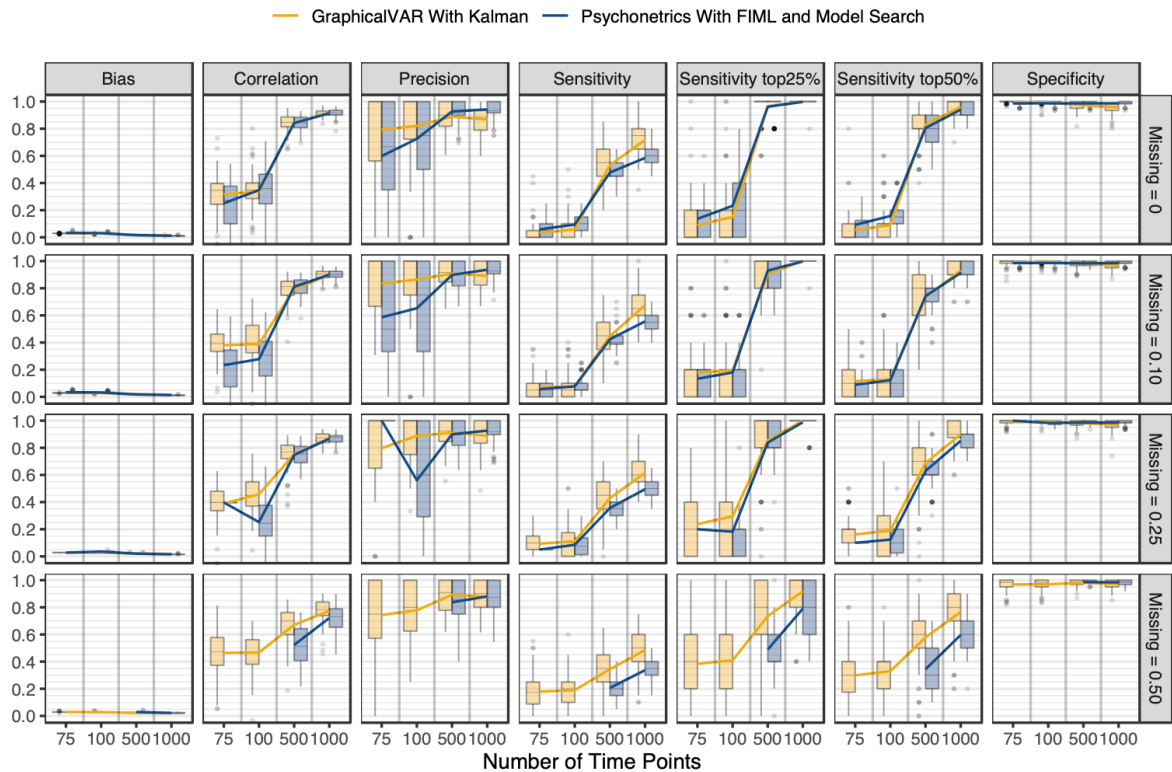
Note. The upper and lower bounds of the boxplot represent the 75th and 25th percentiles. The upper whisker reaches the maximum value within 1.5* the interquartile range (IQR) from the upper bound. The lower whisker reaches the minimum value within 1.5 * IQR from the lower bound. Outliers that exceed the whiskers are represented as points. The lines plot the means in each different condition.⁶

⁶ 12 outlier correlations between the data-generating and estimated networks ranging from $r = -0.164$ to $r = -0.007$ were not plotted, but they were included in the summary statistics. These were found with $N = 75$ and $N = 100$, and proportion of missing data = 0.50 and 0.25.

Simulation Results for the Temporal Networks Estimated from Data Generated According to the Parameters Estimated from Dataset 2

Figure 7

Temporal Network Simulation Results from Data Generated According to the Temporal Parameters Estimated from Dataset 2 with 9 Nodes



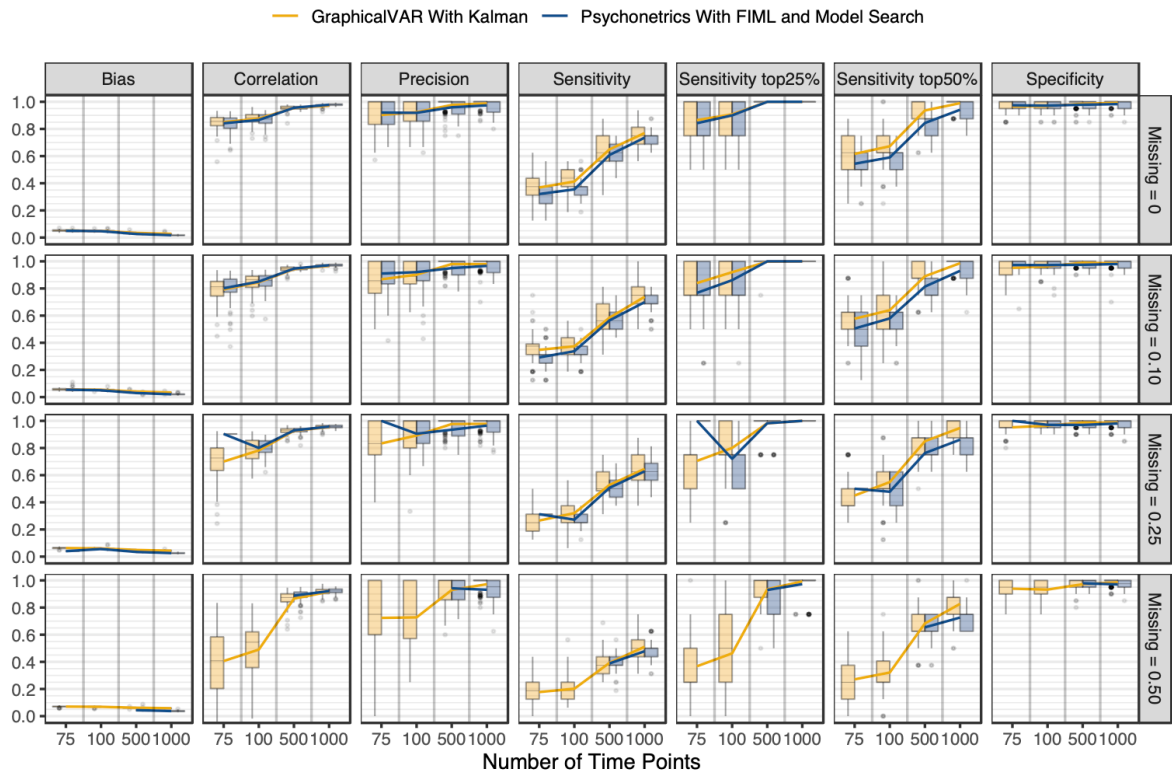
Note. The upper and lower bounds of the boxplot represent the 75th and 25th percentiles. The upper whisker reaches the maximum value within $1.5 \times$ the interquartile range (IQR) from the upper bound. The lower whisker reaches the minimum value within $1.5 \times$ IQR from the lower bound. Outliers that exceed the whiskers are represented as points. The lines plot the means in each different condition.⁷

⁷ 41 outlier correlations between the data-generating and estimated networks ranging from $r = -0.092$ to $r = -0.001$ were not plotted, but they were included in the summary statistics. These were found with $N = 75$ and $N = 100$.

Simulation Results for the Contemporaneous Networks Estimated from Data Generated According to the Parameters Estimated from Dataset 2

Figure 8

Contemporaneous Network Simulation Results from Data Generated According to the Contemporaneous Parameters Estimated from Dataset 2 with 9 Nodes



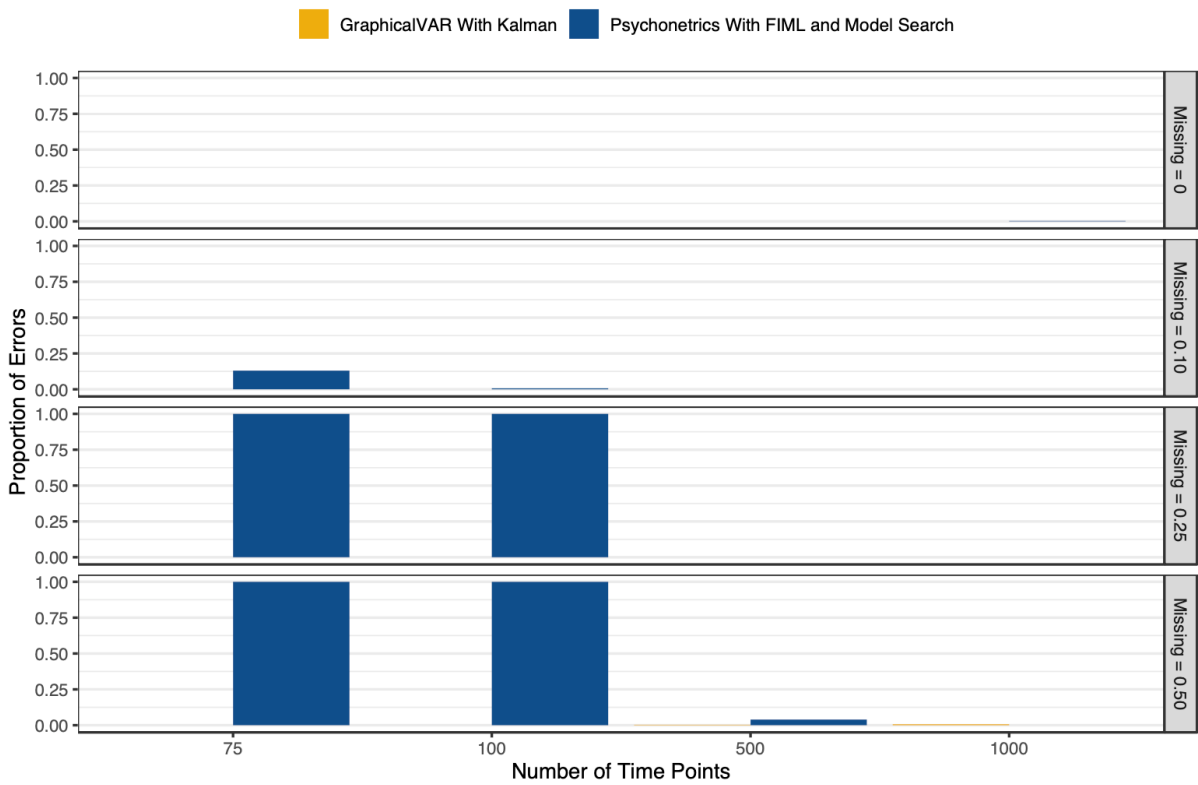
Note. The upper and lower bounds of the boxplot represent the 75th and 25th percentiles. The upper whisker reaches the maximum value within 1.5* the interquartile range (IQR) from the upper bound. The lower whisker reaches the minimum value within 1.5 * IQR from the lower bound. Outliers that exceed the whiskers are represented as points. The lines plot the means in each different condition.⁸

⁸ Five outlier correlations between the data-generating and estimated networks ranging from $r = -0.040$ to $r = -0.018$ were not plotted, but they were included in the summary statistics. These were found with $N = 75$ and $N = 100$, proportion of missing data = 0.50, and graphicalVAR.

Proportion of Failed Estimations in the Simulations from Data Generated According to the Parameters Estimated from Dataset 1

Figure 9

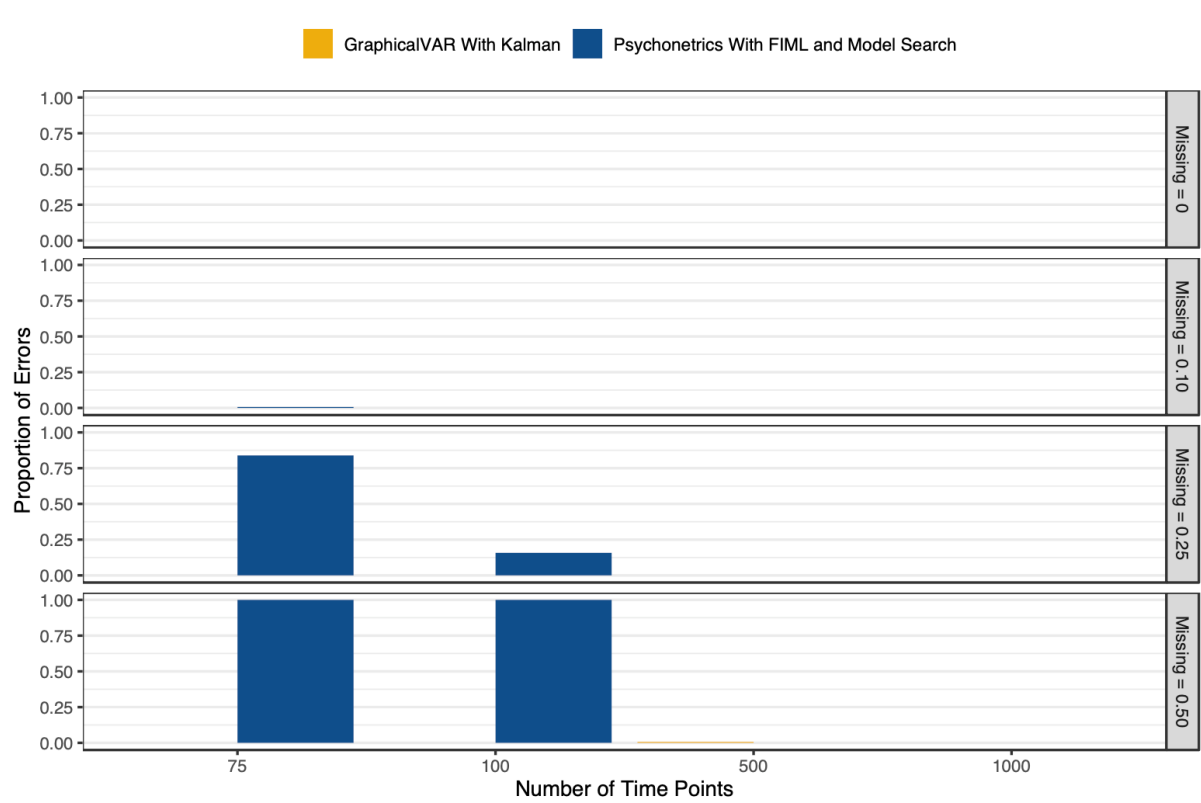
Proportion of Failed Estimations in the Simulations from Data Generated According to the Parameters Estimated from Dataset 1 With 12 Nodes



Note. Proportions for graphicalVAR are shown on the left of the specific number of time points, while proportions for psychonetrics on the right.

Figure 10

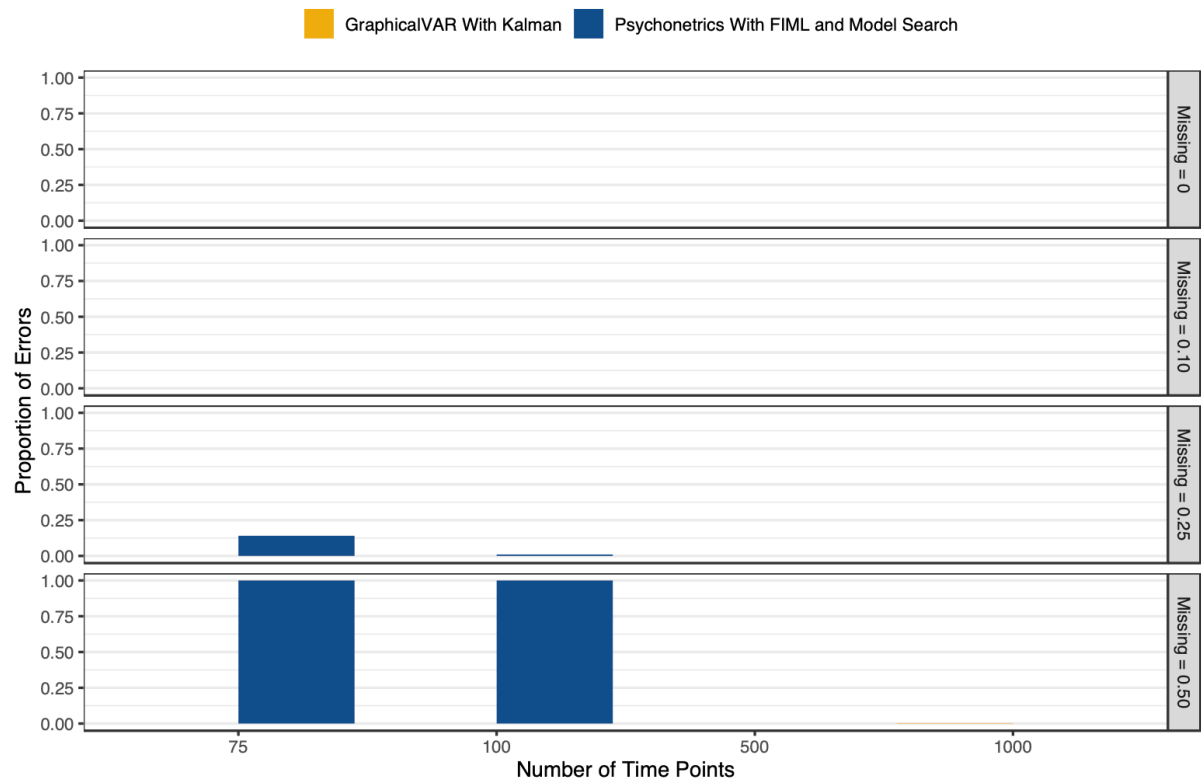
Proportion of Failed Estimations in the Simulations from Data Generated According to the Parameters Estimated from Dataset 1 With 8 Nodes



Note. Proportions for graphicalVAR are shown on the left of the specific number of time points, while proportions for psychonetrics on the right.

Figure 11

Proportion of Failed Estimations in the Simulations from Data Generated According to the Parameters Estimated from Dataset 1 With 6 Nodes

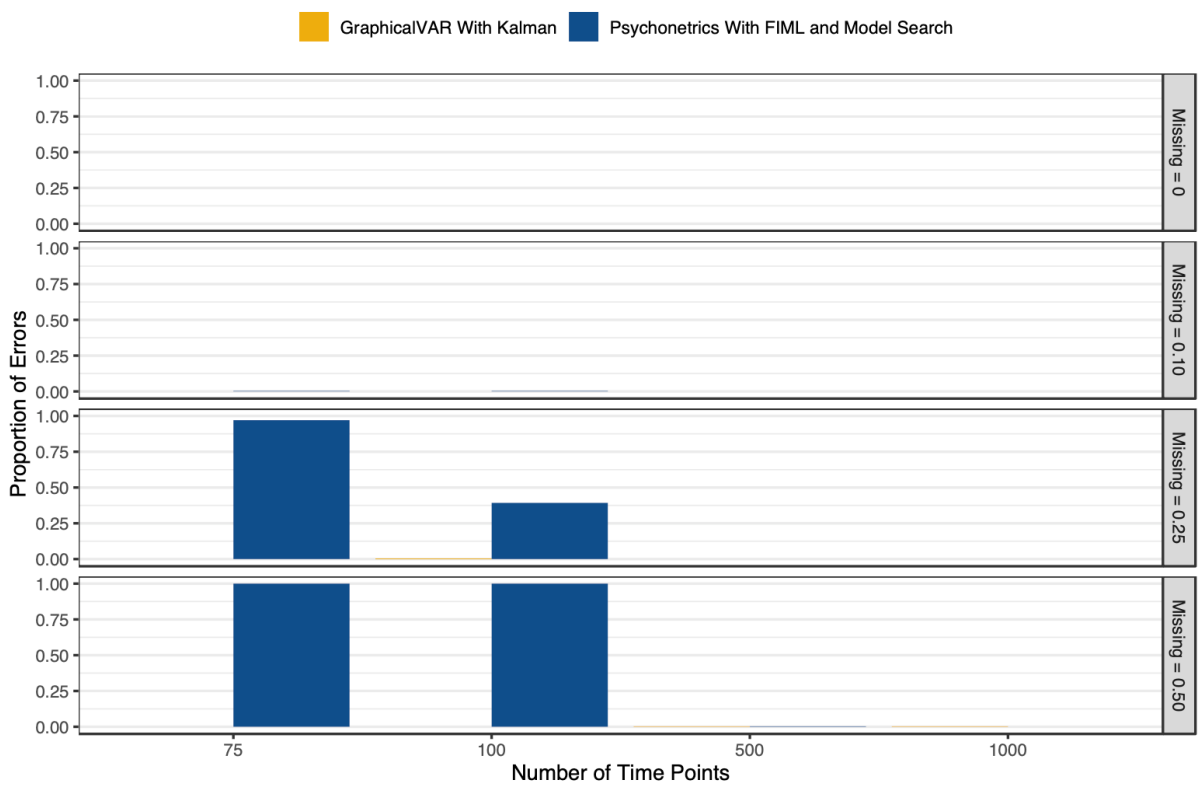


Note. Proportions for graphicalVAR are shown on the left of the specific number of time points, while proportions for psychonetrics on the right.

Proportion of Failed Estimations in the Simulations from Data Generated According to the Parameters Estimated from Dataset 2

Figure 12

Proportion of Failed Estimations in the Simulations from Data Generated According to the Parameters Estimated from Dataset 2 With 9 Nodes

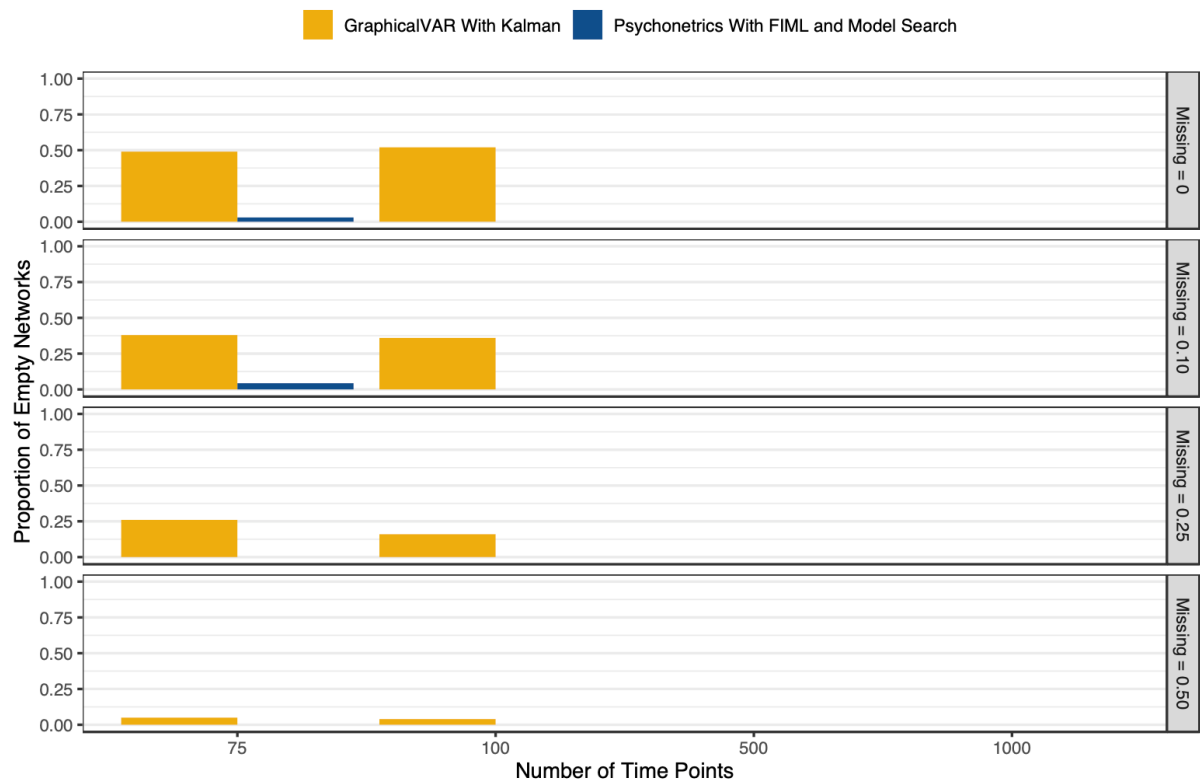


Note. Proportions for graphicalVAR are shown on the left of the specific number of time points, while proportions for psychonetrics on the right.

Proportion of Estimated Empty Temporal Networks in the Simulations from Data Generated According to the Parameters Estimated from Dataset 1

Figure 13

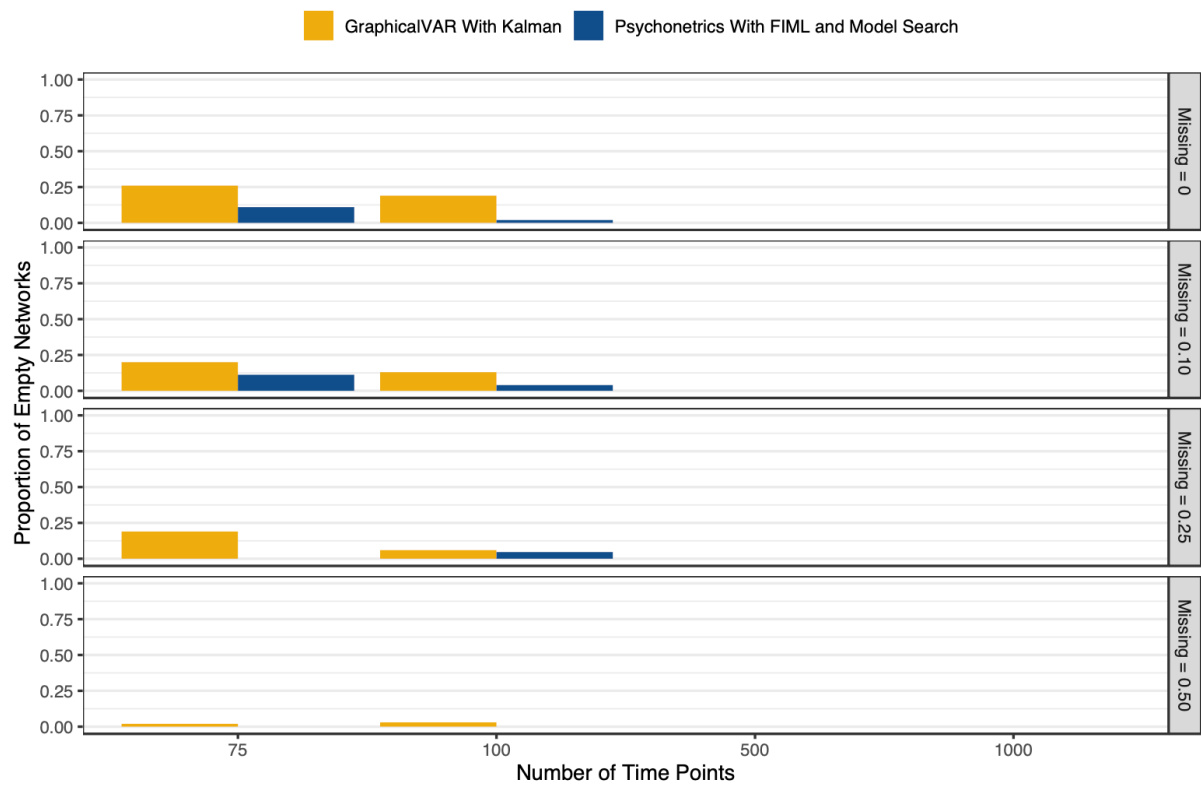
Proportion of Estimated Empty Temporal Networks in the Simulations from Data Generated According to the Parameters Estimated from Dataset 1 With 12 Nodes



Note. Proportions for graphicalVAR are shown on the left of the specific number of time points, while proportions for psychonetrics on the right.

Figure 14

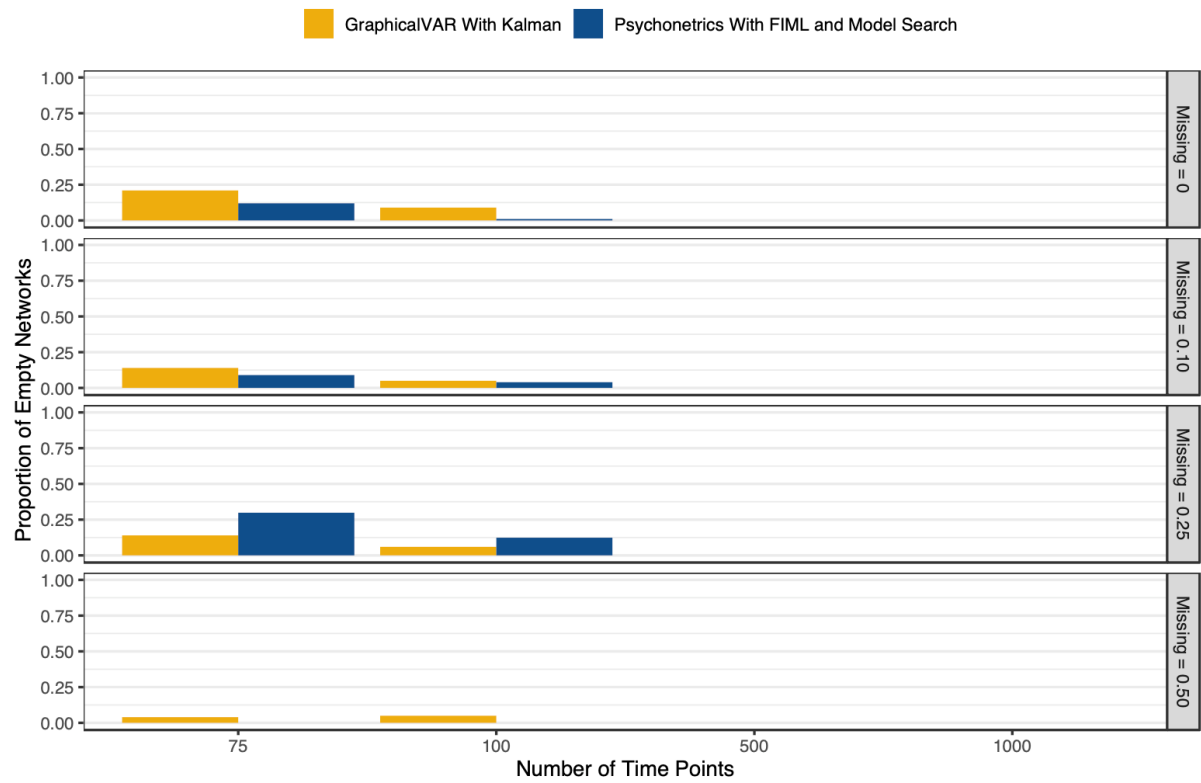
Proportion of Estimated Empty Temporal Networks in the Simulations from Data Generated According to the Parameters Estimated from Dataset 1 With 8 Nodes



Note. Proportions for graphicalVAR are shown on the left of the specific number of time points, while proportions for psychonetrics on the right.

Figure 15

Proportion of Estimated Empty Temporal Networks in the Simulations from Data Generated According to the Parameters Estimated from Dataset 1 With 6 Nodes

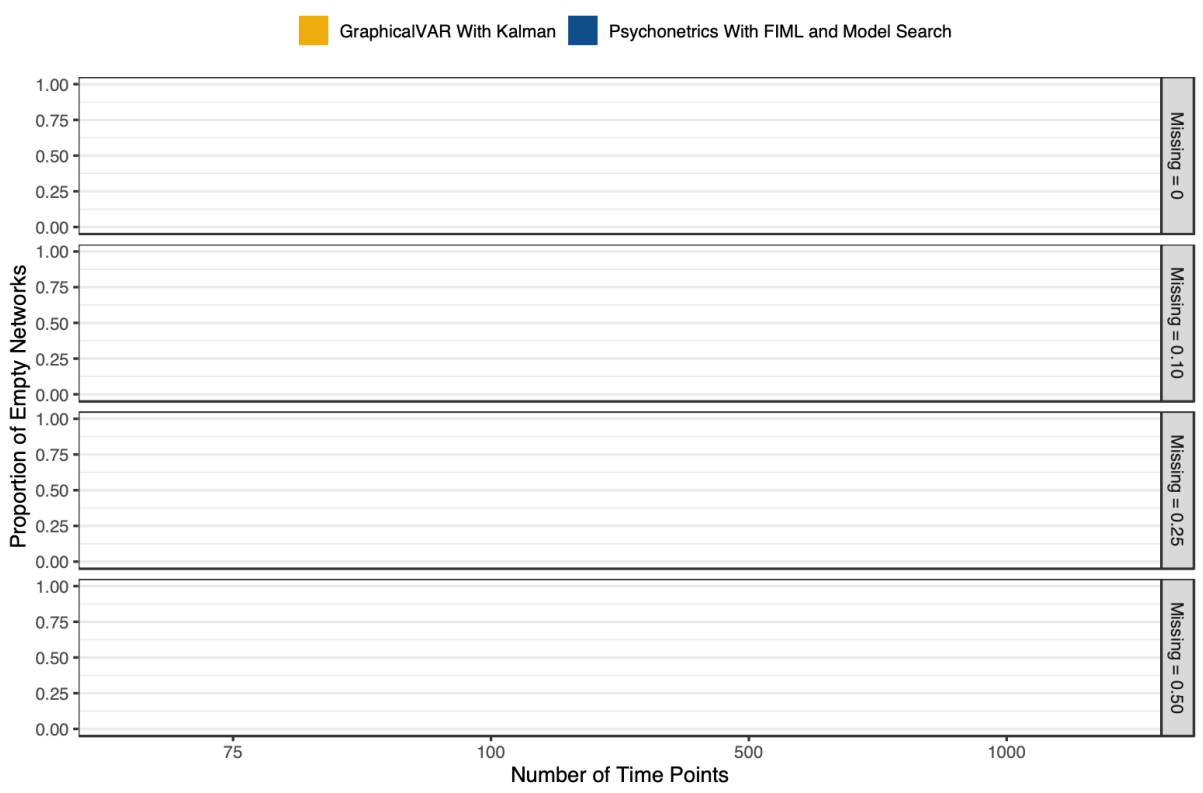


Note. Proportions for graphicalVAR are shown on the left of the specific number of time points, while proportions for psychonetrics on the right.

Proportion of Estimated Empty Contemporaneous Networks in the Simulations from Data Generated According to the Parameters Estimated from Dataset 1

Figure 16

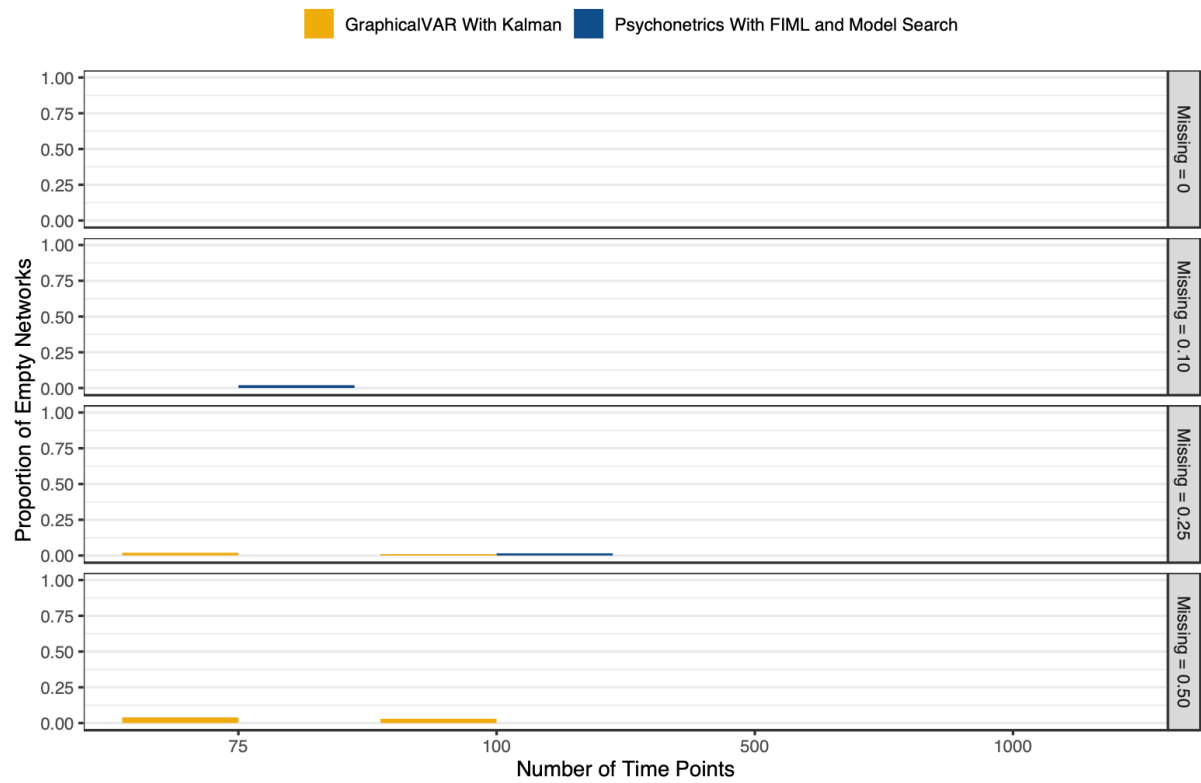
Proportion of Estimated Empty Contemporaneous Networks in the Simulations from Data Generated According to the Parameters Estimated from Dataset 1 With 12 Nodes



Note. Proportions for graphicalVAR are shown on the left of the specific number of time points, while proportions for psychonetrics on the right.

Figure 17

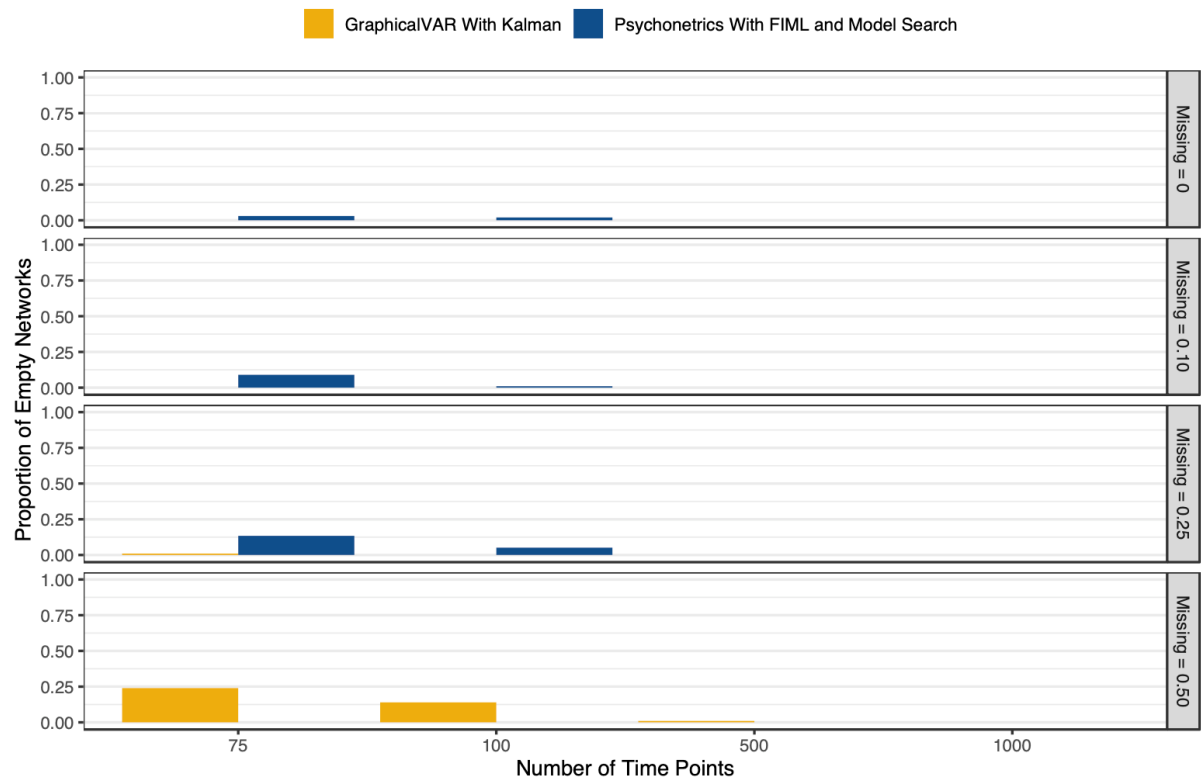
Proportion of Estimated Empty Contemporaneous Networks in the Simulations from Data Generated According to the Parameters Estimated from Dataset 1 With 8 Nodes



Note. Proportions for graphicalVAR are shown on the left of the specific number of time points, while proportions for psychonetrics on the right.

Figure 18

Proportion of Estimated Empty Contemporaneous Networks in the Simulations from Data Generated According to the Parameters Estimated from Dataset 1 With 6 Nodes

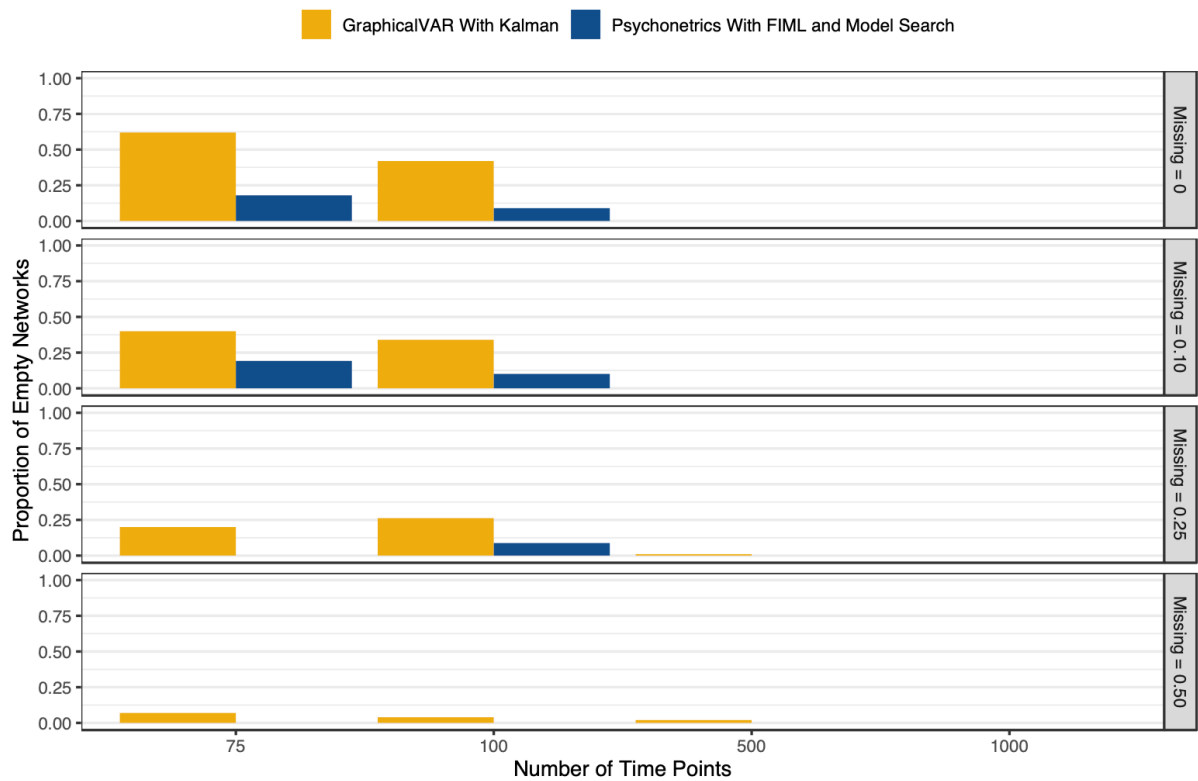


Note. Proportions for graphicalVAR are shown on the left of the specific number of time points, while proportions for psychonetrics on the right.

Proportion of Estimated Empty Temporal Networks in the Simulations from Data Generated According to the Parameters Estimated from Dataset 2

Figure 19

Proportion of Estimated Empty Temporal Networks in the Simulations from Data Generated According to the Parameters Estimated from Dataset 2 With 9 Nodes

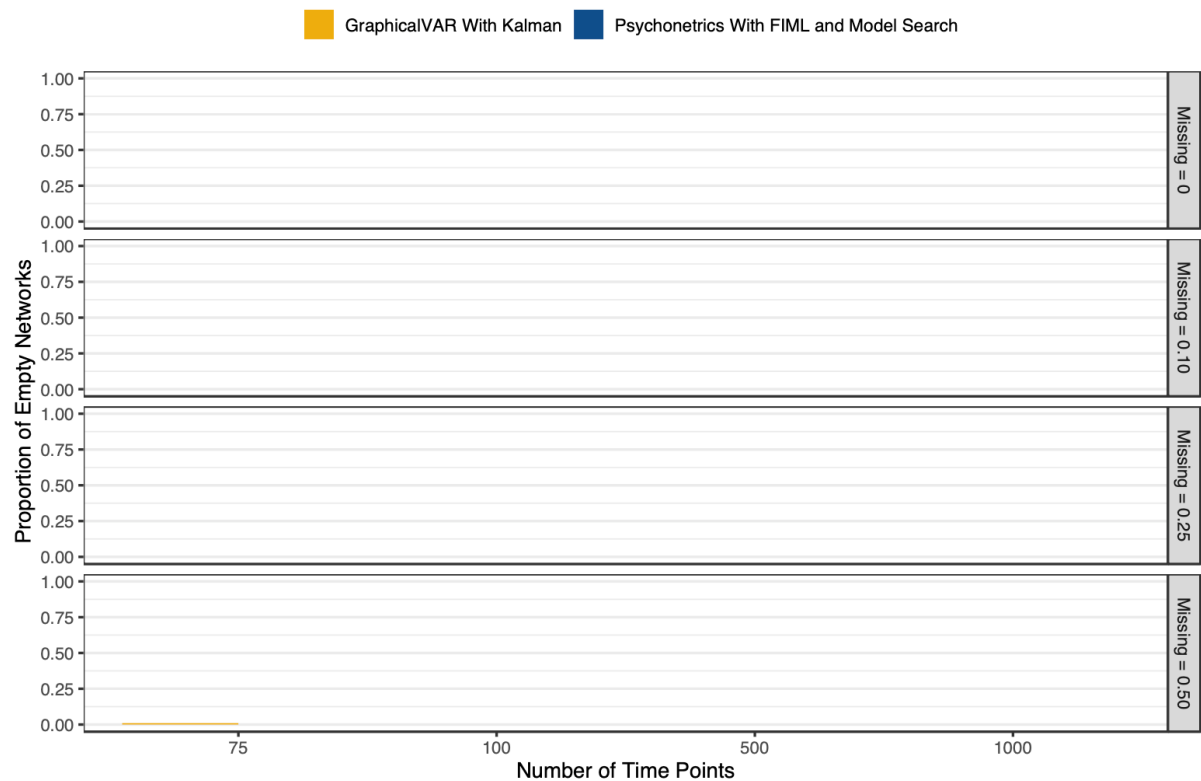


Note. Proportions for graphicalVAR are shown on the left of the specific number of time points, while proportions for psychonetrics on the right.

Proportion of Estimated Empty Contemporaneous Networks in the Simulations from Data Generated According to the Parameters Estimated from Dataset 2

Figure 20

Proportion of Estimated Empty Contemporaneous Networks in the Simulations from Data Generated According to the Parameters Estimated from Dataset 2 With 9 Nodes



Note. Proportions for graphicalVAR are shown on the left of the specific number of time points, while proportions for psychonetrics on the right.