

simStateSpace: Simulate Data from State Space Models

Ivan Jacob Agaloos Pesigan

Description

Provides a streamlined and user-friendly framework for simulating data in state space models, particularly when the number of subjects/units (n) exceeds one, a scenario commonly encountered in social and behavioral sciences. This package was designed to generate data for the simulations performed in Pesigan, Russell, and Chow (2025: <https://doi.org/10.1037/met0000779>).

Installation

You can install the released version of `simStateSpace` from [GitHub](#) with:

```
install.packages("remotes")
remotes::install_github("jeksterslab/simStateSpace")
```

More Information

See [GitHub Pages](#) for package documentation.

Citation

To cite `simStateSpace` in publications, please cite Pesigan et al. (2025).

References

- Pesigan, I. J. A., Russell, M. A., & Chow, S.-M. (2025). Inferences and effect sizes for direct, indirect, and total effects in continuous-time mediation models. *Psychological Methods*.
<https://doi.org/10.1037/met0000779>
- R Core Team. (2025). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>