This form documents the artifacts associated with the article (i.e., the data and code supporting the computational findings) and describes how to reproduce the findings.

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This paper	does	onumber	involve	analysis	of	external	${\rm data}$	(i.e.,	no	${\rm data}$	are	used	or	the	only	data	are
generated b	by the	auth	ors via	simulatio	n i	in their co	ode).										

☑ I certify that the author(s) of the manuscript have legitimate access to and permission to use the data used in this manuscript.

Abstract

We provide data and R code.

Availability

☐ Data **are** publicly available.

 \square Data **cannot be made** publicly available.

If the data are publicly available, see the *Publicly available data* section. Otherwise, see the *Non-publicly available data* section, below.

Publicly available data

Ш	Data	are	avaı.	lable	e on	line	at:

 \square Data are available as part of the paper's supplementary material.

 \square Data are publicly available by request, following the process described here:

□ Data are or will be made available through some other mechanism, described here:

Non-publicly available data

Description

File format(s)

 \square CSV or other plain text.

□ Software-specific binary format (.Rda, Python pickle, etc.): pkcle

□ Standardized binary format (e.g., netCDF, HDF5, etc.):

 \boxtimes Other (please specify): A .zip file contains all the files.

Data dictionary

☑ Provided by authors in the following file(s): A .zip file contains all the files.

☐ Data file(s) is(are) self-describing (e.g., netCDF files)

 \square Available at the following URL:

Additional Information (optional)

Part 2: Code

Abstract

We provide R code for simulation and data analysis.

Description
$\operatorname{Code} \operatorname{format}(s)$
Supporting software requirements
Version of primary software used R 4.1.3
Libraries and dependencies used by the code mice (3.14.0), dplyr (1.0.8), parallel (4.1.3), xlsx (0.6.5), ggplot2 (3.3.5), nnet (7.3-17), miscF (0.1-5), boot (1.3-28), MASS(7.3-55), scales (1.2.1)
Supporting system/hardware requirements (optional) MacOS mantener Version 12.1 Apple M1 Memory 8 CB
MacOS monterey Version 12.1 Apple M1 Memory 8 GB x86_64-apple-darwin17.0 (64-bit)
xoo_o4-appie-dai wiii11.0 (04-bit)
Parallelization used
 □ No parallel code used ⋈ Multi-core parallelization on a single machine/node – Number of cores used: 8 □ Multi-machine/multi-node parallelization – Number of nodes and cores used:
License

Additional information (optional)
Part 3: Reproducibility workflow

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Scope

The provided workflow reproduces:

 ⊠ Any numbers provided in text in the paper ∑ The computational method(s) presented in the paper (i.e., code is provided that implements the method(s)) ∑ All tables and figures in the paper ∑ Selected tables and figures in the paper, as explained and justified below:
Workflow
Location
The workflow is available:
 ☑ As part of the paper's supplementary material. ☐ In this Git repository: ☐ Other (please specify):
$\mathbf{Format}(\mathbf{s})$
 ⊠ Single master code file □ Wrapper (shell) script(s) □ Self-contained R Markdown file, Jupyter notebook, or other literate programming approach □ Text file (e.g., a readme-style file) that documents workflow □ Makefile □ Other (more detail in <i>Instructions</i> below)
Instructions
Please simply run the R code we provide.
Expected run-time
Approximate time needed to reproduce the analyses on a standard desktop machine:
 □ < 1 minute □ 1-10 minutes □ 10-60 minutes □ 1-8 hours ⋈ > 8 hours □ Not feasible to run on a desktop machine, as described here:
Additional information (optional)
Computation time for each R code is documented in the Compute_time(hours).xlsx.

Notes (optional)