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Reproducibility Checklist Feedback

Fields marked with * are mandatory.

Privacy Information

Responsible Party

GESIS - Leibniz Institute for the Social Sciences

B6, 4-5, 68159 Mannheim

Phone: +49 621-1246-0 Email: info@gesis.org

Data Protection Officer

HEC Harald Eul Consulting GmbH Datenschutzbeauftragte GESIS Auf der Höhe 34 50321 Brühl

E-mail: Datenschutz-GESIS@he-c.de

Purpose

To investigate and improve reproducibility practices among computational social scientists.

Data Collected

Demographic data (academic position and years of experience in research) and survey responses.

Legal Basis

Point (a) of Article 6(1) GDPR

Data Sharing

Internal use at GESIS; anonymized data for reports and future research.

We cooperate with the service provider EUSurvey who supports us in implementing the project.

A results report in which the results of the project are presented in a non-personal manner will be prepared, permanently archived and published.

Storage Duration

Personal data that you have specified in your declaration of consent is excluded. This data will be deleted after 30 years at the latest.

The duration of storage depends on the research purpose. Personal survey data is stored for 10 years in accordance with the guideline for ensuring good scientific practice. This retention is important because researchers must be given the opportunity to verify the accuracy of research results. The non-personal survey data are archived indefinitely in the GESIS data archive. Your master and contact data will be deleted by the end of the study.

Your Rights

You have the following rights vis-à-vis the controller:

- Right of access, Article 15 GDPR
- Right to rectification, Article 16 GDPR
- Right to erasure ('right to be forgotten'), Article 17 GDPR
- Right to restriction of processing, Art. 18 GDPR
- Right to data portability, Article 20 GDPR
- Right to object, Article 21 GDPR

You have the right to object, on grounds relating to your particular situation, to processing of personal data concerning you which is carried out for scientific or historical research purposes or statistical purposes pursuant to Article 89(1) GDPR].

Your right of access, right to rectification, right to restriction of processing and right to object may be restricted to the extent that it is likely to render impossible or seriously impair the achievement of the research or statistical purposes and the restriction is necessary for the fulfillment of the research and statistical purposes.

You can exercise these rights by contacting the GESIS data protection officer using the contact details above.

Complaints

You can exercise your rights by contacting the GESIS data protection officer using the contact details above. You also have the right to lodge a complaint with a supervisory authority (Article 77 GDPR). However, GESIS recommends that you always first address a complaint to the GESIS data protection officer.

If you have any questions regarding data protection, please contact the GESIS data protection officer using the contact details above. Further information on data protection can be found on the website https://www.gesis.org/en/institute/data-protection.

Declaration of Consent

If you choose to continue and have the time, we will ask you to review the reproducibility checklist we have prepared and provide feedback on the helpfulness of each item in enhancing reproducibility. You will be asked questions related to your academic position, years of experience in research, and specific items on the checklist.

During this study, Feedback on the reproducibility checklist will be processed.

You have the right to withdraw your consent at any time. The withdrawal of consent does not affect the lawfulness of processing based on consent before its withdrawal.
I acknowledge the privacy information.
☐ I consent to participate in the survey.
Demographics
Which of these positions best describes your academic position? Graduate Student Postdoctoral Researcher Assistant Professor Full Professor Industry Professor Team Leader/ Principal Investigator Other
How many years have you worked in research? Less than one year 1-5 years 6-10 years More than 10 years

This section of the survey presents a list of proposed items to enhance the reproducibility of methods and results in scientific studies. The survey is divided into three sections:

- 1. Planning and Data Collection
- 2. Analysis and Processing
- 3. Archiving and Sharing

Please rate each item using a scale from 1 to 9:

1. Strongly disagree: Exclude this reproducibility item from the checklist ... 5. Neither exclude nor include this reproducibility item in the checklist ... 9. Strongly agree: Include this reproducibility item in the checklist

You may choose "Skip" if you cannot rate the item. At the conclusion of each section, there is a space for additional comments, suggestions for new items, rephrasing, etc.

1. Planning and Data collection

Description of Study

0 4

Hypotheses: Clearly state the hypotheses
1 (Exclude)
© 2
© 3
O 4
© 5
© 6
© 7
© 8
9 (Include)
Skip
Rationale and Prior Evidence: Summarize the study rationale and prior evidence.
1 (Exclude)
© 2
© 3
4
© 5
© 6
© 7
© 8
9 (Include)
Skip
Study Questions: Formulate the study questions.
1 (Exclude)
© 2
© 3
© 4
© 5
© 6
© 7
© 8
9 (Include)
Skip
Objectives: Describe the study objectives.
1 (Exclude)
© 2
3

© 5	
© 6	
© 7	
◎ 8	
9 (Include)	
Skip	
Ο ΟΚΙΡ	
Pre-registration: Register the study, including a detailed experiment design.	
1 (Exclude)	
© 2	
© 4	
© 5	
© 6	
© 7	
◎ 8	
9 (Include)	
Skip Ski	
Data Management Plan: Document the plan prior to study initiation.	
1 (Exclude)	
© 2	
© 3	
© 4	
© 5	
© 6	
© 7	
◎ 8	
9 (Include)	
Skip	
Statistical Analysis Plan: Outline the planned statistical procedures.	
1 (Exclude)	
© 2	
◎ 3	
© 4	
© 5	
© 6	
© 7	
© 8	
9 (Include)	
Skip	
- 0.up	

Methods Reporting

Reporting Intent: Specify if methods are intended to be reported in a study. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip
Registered Report: Indicate if the study will be submitted as a registered report. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip
Study Population
Definition: Define demographic characteristics, geographic location, and relevant contextual factors. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip
Sampling Strategy: Explain sampling strategy and justify the approach. 1 (Exclude) 2

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0	9 (Include)
0	Skip
	Sources and Inclusion/Exclusion Criteria: Specify data sources and inclusion/exclusion criteria.
_	1 (Exclude)
	2
	3
	4
	5
0	6
0	7
0	8
0	
_	9 (Include)
0	Skip
	I Considerations: Address ethical considerations regarding privacy and consent. 1 (Exclude)
	2 3 4 5 6 7 8 9 (Include) Skip
	3 4 5 6 7 8 9 (Include)
© 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 4 5 6 7 8 9 (Include) Skip
© 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 4 5 6 7 8 9 (Include) Skip ance to Research Questions: Discuss relevance to research questions and comparative analysis.
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© 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 4 5 6 7 8 9 (Include) Skip ance to Research Questions: Discuss relevance to research questions and comparative analysis. 1 (Exclude) 2 3 4 5 6 7
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© 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 4 5 6 7 8 9 (Include) Skip ance to Research Questions: Discuss relevance to research questions and comparative analysis. 1 (Exclude) 2 3 4 5 6 7 8

Digital Data and Computational Environment

Materials and Data Sources

Data Sources: Specify digital data sources (e.g., social media platforms, recordings, interviews, etc) and
provide DOI if available.
1 (Exclude)
© 2
© 3
4
© 5
© 6
© 7
© 8
9 (Include)
Skip
Data Description: Briefly describe the type and nature of collected data. Necessary metadata
1 (Exclude)
© 3
© 4
© 5
© 6
© 7
© 8
9 (Include)
Skip
Accessibility: Where is it planned to be stored?
1 (Exclude)
© 2
© 3
© 4
© 5
© 6
© 7
© 8
9 (Include)
Skip
Function and all Conditions

Experimental Conditions

Data Collection Procedures: Detail procedures for data collection (e.g., APIs, web scraping).

1 (Exclude)

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© 4
© 5
© 6
© 7
© 8
9 (Include)
Skip
Data Dua musa sastu na Dasadina data alamaina and tugunfamatika mathada
Data Pre-processing: Describe data cleaning and transformation methods.
1 (Exclude)
© 2
© 3
○ 4
© 5
◎ 6
© 7
© 8
9 (Include)
Skip
Data Handling Procedures: Address handling of missing data and outliers.
1 (Exclude)
© 2
© 3
© 4
© 5
© 6
© 7
© 8
9 (Include)
Skip Ski
Computational Environment: Specify tools, software, and languages used (e.g., Python, R).
1 (Exclude)
© 2
© 3
© 4
© 5
© 6
© 7
© 8
9 (Include)
Skip

Experimental Steps and Variables (Configurations)

Experimental Steps: Outline the procedure followed.
1 (Exclude)
© 2
© 3
4
© 5
© 6
© 7
© 8
9 (Include)
Skip
Variables: Describe experimental variables.
1 (Exclude)
© 2
© 3
4
© 5
6
7
© 8
9 (Include)
Skip
Data Collection Bias: Approaches to mitigate bias in data collection and analysis
1 (Exclude)
© 2
© 3
4
© 5
© 6
© 7
© 8
9 (Include)
Skip
Comments:

2. Analysis and Processing

Metadata

Metadata: Provide accessible metadata. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip
Computational Methods and Analysis
Statistical and Computational Methods: Clearly describe all statistical and computational methods used, including regression techniques, machine learning algorithms, and any other analytical methods. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip
Algorithm and Model Description: Provide detailed descriptions of any algorithms or computational techniques implemented, including their theoretical basis and practical application. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip

performance, such as accuracy metrics, ROC curves, cross-validation techniques (e.g., k-fold, leave-one-
out), and other relevant metrics.
1 (Exclude)
© 2
© 3
© 4
© 5
© 6
© 7
© 8
9 (Include)
Skip
Computational Tools and Libraries: Specify all computational tools, libraries, and their versions used in the analysis (e.g., Python, R, TensorFlow). 1 (Exclude)
© 2
© 3
4
© 5
© 6
© 7
◎ 8
9 (Include)
Skip
Parameter Tuning and Optimization: Describe any parameter tuning or optimization procedures carried out, including methods like grid search or random search. 1 (Exclude)
© 2
© 3
4
© 5
© 6
© 7
◎ 8
9 (Include)
Skip
⊕ Skip
Training and Course Availability: Ensure that any training or courses related to these methods are
accessible to users for better understanding and implementation.
1 (Exclude)
© 2
© 3
4

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0	7
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0	9 (Include)
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reproc enviro	 3 4 5 6 7 8
	9 (Include)
	Skip
Data I	Handling Procedures: Address handling of missing data and outliers. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip
Data I	Handling Procedures: Address handling of missing data and outliers. 1 (Exclude) 2
Data I	Handling Procedures: Address handling of missing data and outliers. 1 (Exclude) 2
Data I	Handling Procedures: Address handling of missing data and outliers. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip Dretation and Reporting retation of Results: Explain results in relation to hypotheses.
Data I	Handling Procedures: Address handling of missing data and outliers. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip Pretation and Reporting retation of Results: Explain results in relation to hypotheses. 1 (Exclude)
Data I	Handling Procedures: Address handling of missing data and outliers. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip Pretation and Reporting retation of Results: Explain results in relation to hypotheses. 1 (Exclude) 2
Data I	Handling Procedures: Address handling of missing data and outliers. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip Pretation and Reporting retation of Results: Explain results in relation to hypotheses. 1 (Exclude)
Data I	Handling Procedures: Address handling of missing data and outliers. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip Pretation and Reporting retation of Results: Explain results in relation to hypotheses. 1 (Exclude) 2
Data I	Handling Procedures: Address handling of missing data and outliers. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip Pretation and Reporting retation of Results: Explain results in relation to hypotheses. 1 (Exclude) 2 3

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9 (Include)
Skip
OKIP SKIP
Results Presentation: Describe how results were presented visually.
1 (Exclude)
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© 3
© 4
© 5
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9 (Include)
Skip
Demonstrative the 1924 co
Reproducibility
Code Aveilebility. Encure code for analysis or model development is anaply available
Code Availability: Ensure code for analysis or model development is openly available.
1 (Exclude)
1 (Exclude) 2
1 (Exclude)23
1 (Exclude)234
1 (Exclude)2345
 1 (Exclude) 2 3 4 5 6
 1 (Exclude) 2 3 4 5 6 7
 1 (Exclude) 2 3 4 5 6 7 8
 1 (Exclude) 2 3 4 5 6 7
 1 (Exclude) 2 3 4 5 6 7 8
1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip
1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip Documentation, literate programming principals
 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip Documentation, literate programming principals 1 (Exclude)
1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip
1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip
1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip Documentation, literate programming principals 1 (Exclude) 2 3 4 4
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Skip	
Implementation and Practical Considerations	
Science Usecase(s)	
Include use cases from social sciences demonstrating the method's applicability.	
1 (Exclude)	
© 2	
© 3	
O 4	
© 5	
© 6	
© 7	
© 8	
9 (Include)	
Skip	
Cite latest social science literature to support the use cases.	
1 (Exclude)	
© 2	
◎ 3	
4	
© 5	
© 6	
© 7	
◎ 8	
9 (Include)	
Skip	
Repo Structure	
Explain the overall structure of the method, including directories and key files.	
1 (Exclude)	
© 2	

© 3
4
© 5
© 6
© 7
© 8
9 (Include)
Skip
O ONLIP
Environment Setup
Detail steps to set up the environment to run the method locally.
1 (Exclude)
© 2
© 3
© 4
© 5
© 6
© 7
© 8
9 (Include)
Skip
O Skip
List required packages and libraries with specific versions.
1 (Exclude)
© 2
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4
© 5
© 6
© 7
© 8
9 (Include)
Skip
o onp
Hardware Requirements
Specify hardware requirements if the method needs more memory/ compute power.
1 (Exclude)
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4
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© 6
© 7
© 8

Skip
Sample Input and Output Data
Show sample input data and corresponding output to help users understand the method. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip
How to Use
Provide step-bystep HowTos for different usages. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip
Include installation, configuration, and specific instructions for users. 1 (Exclude) 2 3 4 5 6 7 8 9 (Include) Skip
Comments:

9 (Include)

3. Archiving and Sharing

Tracking and Reporting

	tion Tracking: Document deviations from the original plan.
	1 (Exclude)
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	8
	9 (Include)
	Skip
Negat	ive Data: Describe instances of failed experiments or unsupported hypotheses.
	1 (Exclude)
	2
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	8
	9 (Include)
0	Skip
Repor	ting: Emphasize transparent reporting of deviations and negative results.
	1 (Exclude)
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0	
0	
0	
0	9 (Include)
0	Skip

Results Reporting: Report findings
1 (Exclude)
© 2
© 3
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© 5
© 6
© 7
© 8
© 9 (Include)
Skip
Interpretation: Interpret results with respect to study objectives.
1 (Exclude)
© 2
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© 4
© 5
© 6
© 7
© 8
9 (Include)
Skip
Visualization: Provide visualizations of data and results.
0 1 (Exclude)
O 2
© 3
O 4
© 5
© 6
© 7
© 8
9 (Include)
Skip
Study Strength and Limitations
Strength and Limitations: Discuss strengths and limitations of the study.
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© 5
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	9 (Include)
	Skip
A I.	analis, and Cantributanalis
Autn	orship and Contributorship
Autho	orship: Detail contributions of authors and contributors.
	1 (Exclude)
	2
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	4
	5
0	
	7
	8
	9 (Include)
0	Skip
Doto	Charing
Dala	Sharing
Proce	essed Data: Make processed dataset openly available.
	1 (Exclude)
	2
	3
	4
0	5
0	
0	
0	9 (Include)
0	Skip
Raw I	Data: Share raw data unless constrained by privacy or ethics.
	1 (Exclude)
	2
0	3
	4
0	
	6
	7
0	
0	9 (Include)
0	

Skip

Ethical Considerations: Address ethical concerns related to data sharing.
1 (Exclude)
© 2
© 3
© 4
© 5
© 6
© 7
◎ 8
9 (Include)
Skip
Access and Licensing: Specify access and licensing terms for shared data.
1 (Exclude)
© 2
◎ 3
O 4
© 5
© 6
© 7
◎ 8
9 (Include)
Skip
Comments:

Contact

Contact Form