



Coverage or intensity of support? Adaptive social protection to reduce disaster-related poverty

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This review verifies the reproducibility of the exhibits included in the paper “Coverage or intensity of support? Adaptive social protection to reduce disaster-related poverty”.

Contents in this review:

1. Main findings
2. List of exhibits and reproducibility status
3. Reproduction Environment

Main findings

- **Every exhibit in the main section and the annex of the paper has been reproduced accurately.**
- The code was successfully executed on a new computer after:
 1. Activating the Conda environment.
- The code takes approximately 7 hours to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on February 12th.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 3 types of data: open, limited-access and restricted data (available only from the authors).
 - Open data is included in the public reproducibility package.
 - Reviewers used forthcoming/accessible/restricted data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package.
 - *data_hash_report.csv* lists the SHA256 hashes of all files in the Data folder to support data integrity checks. Users who acquire the forthcoming/accessible/limited-access/restricted data can use this file to verify that the data has not been altered.
- **Reproducibility Summary:**
 - **Data:** Some data is restricted and has not been included in the reproducibility package. For more details, please refer to the README file.

- **Code:** All code files (from cleaning to analysis) are included in the reproducibility package.
- **Outputs:** All outputs are generated by code included in the reproducibility package.
- **Dependencies environment:** The reviewers created a new environment using the latest versions of dependencies available at the moment of the review.

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Figure 1** Reproduced.
- **Table 1** Does not apply.
- **Figure 2a** Reproduced.
- **Figure 2b** Reproduced.
- **Figure 2c** Reproduced.
- **Figure 2d** Reproduced.
- **Figure 3_a_b_c** Reproduced.
- **Figure 4_a_b_c** Reproduced.
- **Figure 5_a_b_c** Reproduced.
- **Figure 6_a_b_c** Reproduced.
- **Figure 7_a_b_c** Reproduced.
- **Figure 8_a_b_c_d_e_f** Reproduced.
- **Figure 9_a_b_c** Reproduced.
- **Figure 10_a_b_c** Reproduced.
- **Figure 11_a_b_c** Reproduced.
- **Figure 12_a_b_c** Reproduced.
- **Figure 13_a_b_c** Reproduced.
- **Figure 14_a_b_c** Reproduced.
- **Figure 15** Reproduced.

Results in the Annex

- **Figure 1** Reproduced.
- **Figure 2** Reproduced.

- **Figure 3** Reproduced.
- **Figure 4** Reproduced.
- **Figure 5** Reproduced.
- **Figure 6** Reproduced.
- **Table 1** Reproduced.

Reproduction Environment

Paper exhibits were reproduced on a computer with the following specifications:

- OS: Windows 11 Enterprise
- Processor: Intel(R) Core(TM) Ultra 7 165U @ 2.60GHz
- Memory available: 18 GB
- Software version: Python 3.13