



Disruption Without Dividend? How The Digital Divide And Task Differences Split GenAI's Global Impact

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This review verifies the reproducibility of the exhibits included in the paper “*Disruption Without Dividend? How The Digital Divide And Task Differences Split GenAI's Global Impact*”.

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 of the paper and in the appendix were reproduced accurately**
- The code was successfully executed on a new computer after:
 1. Updating the file path in 01_Country_level_GenAI_exposure/main_for_01.R script and running the code.
 2. Updating the file path in 02_GenAI_exposure_by_internet_access/main_for_02.R script and running the code.
 3. Updating the file path in 03_Task_content_job_measures/main_for_03.do do-file and running the code.
 4. Updating the file path in 04_GenAI_exposure_task_content/Step_2_GenAI_and_task_content.Rmd script and running the code.
 5. Updating the file path in 05_Mlogit_model_annex/main_for_05.R script and running the code.
 6. Updating the file path in 05_Mlogit_model_annex/03-mlogit-model-estimation.do do-file and running the code.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 1 hour 15 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors in the reproducibility package .
- **Verification Process and Data Handling:**

- The reproducibility package relies on three types of data: open, limited-access, and restricted.
 - Open data is included in the public reproducibility package.
 - Reviewers used restricted and limited-access 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 restricted/limited-access data can use this file to verify that the data has not been altered.
- **Reproducibility Summary:**
 - **Data:** Some data is limited-access/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 reproduced an existing environment for dependencies using dependency files or an environment metadata file provided by the authors.

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Figure 1 Reproduced.** Verified against fig1_exposed_vs_GDP.jpg.
- **Figure 2 Reproduced.** Verified against fig2_all_exposure_cats.jpg.
- **Figure 3 Reproduced.** Verified against fig3_exposed_not_exposed.jpg.
- **Figure 4 Reproduced.** Verified against fig4_by_occupation1D.jpg.
- **Figure 5 Reproduced.** Verified against fig5_by_sex.jpg.
- **Figure 6 Reproduced.** Verified against fig6_by_age_group.jpg.
- **Figure 7 Reproduced.** Verified against fig7_by_educ.jpg.
- **Figure 8 Reproduced.** Verified against fig8_by_sector.jpg.
- **Figure 9 Reproduced.** Verified against Figure9.jpeg.
- **Figure 10 Reproduced.** Verified against fig10_by_welfareQ.jpg.
- **Figure 11 Reproduced.** Verified against Figure11.jpeg.
- **Figure 12 Reproduced.** Verified against Figure12.jpeg.
- **Figure 13 Reproduced.** Verified against Figure13.jpeg.
- **Figure 14 Reproduced.** Verified against Figure14.jpeg.

Results in the Annex

- **Table A1 Reproduced.** Verified against List_countries_A1.xlsx.
- **Table A2 Reproduced.** Verified against Population_A2.xlsx.
- **Table A3 Reproduced.** Verified against List_countries_A3.xlsx.
- **Table A4 Reproduced.** Verified against Population_A4.xlsx.
- **Table A5 Reproduced.** Verified against Model_estimates_A5.xls.
- **Table A6** Does not show analysis results.
- **Figure A15 Reproduced.** Verified against FigureA15_internet.jpeg.
- **Figure A16 Reproduced.** Verified against marginsplot_figA16.jpg.

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: Intel(R) Xeon(R) Gold 6226R CPU @ 2.90GHz
- Memory available: 16.0 GB
- Software version: R 4.5.1, Stata 19.5 MP