



## *SMaRT: Online Reusable Resource Assignment and an Application to Mediation in the Kenyan Judiciary*

*First Submission: RR\_KEN\_2026\_585*

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This review verifies the reproducibility of the exhibits included in the paper “*SMaRT: Online Reusable Resource Assignment and an Application to Mediation in the Kenyan Judiciary*”.

### **Contents in this review:**

1. Main findings
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### *Main findings*

- **Every exhibit of the paper has been reproduced accurately.**
- The code was partially reproduced on a new computer due to the extensive runtime of data preparation scripts, which was not executed by the replicators. See below for details.
- The following steps were executed on a new computer:
  1. Restoring the environment in "requirements.txt"
  2. Running the notebooks: reproduce\_exp\_one\_click\_QP.ipynb; reproduce\_exp\_one\_click\_LP\_refinedC5.ipynb; sensitivity\_analysis\_of\_VA\_estimation.ipynb
- The code takes approximately 90 minutes to run from intermediate data.
- We conducted our reproducibility analysis based on the paper shared by the author.
- **Verification Process and Data Handling:**
  - The reproducibility package relies on one type of data: restricted data (available only from the data owners).
  - Due to the extensive runtime of the data preparation scripts ( 640 hours), that portion of the code was not executed by the replicators. All steps are documented in the README and the reproducibility package. The authors shared the pre-processed intermediate files, which the replicators used to execute Workflow A as described in the README.
  - Reviewers used the intermediate data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package due to size restrictions.

- *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:** All 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.
- **Figure 2** Does not apply. The exhibit is an not an analytical output.
- **Figure 3** Reproduced.
- **Figure 4** Reproduced.
- **Table 1** Does not apply. The exhibit is an not an analytical output.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Table 4** Reproduced.
- **Table 5** Reproduced.

#### **Results in the Annex**

- **Figure 5** Reproduced.

- **Table 6** Reproduced.
- **Table 7** Reproduced.
- **Table 8** Reproduced.
- **Table 9** Reproduced.

### *Reproduction Environment*

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

- OS: Windows 11 Enterprise
- Processor: INTEL(R) XEON(R) PLATINUM 8562Y+ (2.80 GHz) (2 processors)
- Memory available: 128.0 GB
- Software version: Python 3.11.15