

README for R Script

`01_smart_mobility_data_merge_script.R`

Version 1.0

Overview

This script is designed to process bibliometric data from the Scopus and Web of Science (WoS) databases. It merges data from these sources into a single dataset, removes duplicate records, and exports the result as an Excel file.

Prerequisites

Ensure the following R packages are installed:

- **bibliometrix**: For bibliometric data analysis and conversion.
- **openxlsx**: For reading and writing Excel files.

You can install these packages using the following commands:

```
install.packages("bibliometrix")  
install.packages("openxlsx")
```

File Structure

- **scopus_data.csv**: The CSV file containing data exported from Scopus.
- **wos_data.bib**: The BibTeX file containing data exported from Web of Science.
- **merged_data.xlsx**: The output Excel file containing the merged and processed data.

Script Details

1. **Set Working Directory**: The script sets the working directory to where your data files are stored.
2. **Load Libraries**: It loads the necessary R libraries for processing.

3. **Convert Data:**

- Scopus data is converted from CSV to a data frame.
- Web of Science data is converted from BibTeX to a data frame.

4. **Merge Data:** The data from both sources is merged into a single database, with duplicates removed.

5. **Export Data:** The merged database is saved as an Excel file for further analysis or sharing.

6. **Exit:** The script exits the R session upon completion.

How to Run the Script

1. Place the script and data files in the same directory, or adjust the working directory path in the script to match your file locations.
2. Ensure that the required R packages are installed.
3. Run the script in an R environment.
4. The output will be saved in the same directory as the script, named **merged_data.xlsx**.

Notes

- Modify the `setwd` function if your data is in a different location.
- Check for any errors during the conversion and merging steps, especially if the data files have different structures or formats.

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