aaai-claire-clustering

CLAIRE: Clustering Evaluation based on Model Agreement and Item Response Theory

link: anonymous-repository

note: The anonymous repository encompasses all the outputs generated within this study.

Poetry installation

Run:

```
curl -sSL https://install.python-poetry.org | python3 -
```

```
pip install poetry
```

Download the zip

Download this zip file. Thus:

```
cd aaai-claire-clustering/
```

Install project dependencies

Run the code bellow for install all dependecies of the project.

```
poetry install
```

Run the pipeline

Run the pipeline for reproduction of the results.

```
poetry run python3 pipeline/run.py
```

Experiments

Upon the completion of the experiments, a directory must be created, as follows:

- **results:** a standard directory, containing the outcomes for each random partition addition.

Figures

For the generation of all graphics, simply execute:

First:

```
cd notebooks/
```

then:

```
poetry run python3 executables.py . ../pipeline/executables/
```

note that:

```
poetry run python3 executables.py --help
```

return:

```
usage: executables.py [-h] [input_directory] [output_directory] [works]

Convert and excute the notebooks.

positional arguments:
  input_directory   Dir for notebooks to generate the plots. (default:
                    {YOUR_PROJECT_DIR}/aaai-claire-
                    clustering/notebooks)

  output_directory  Output directory for .pys. (default:
                    {YOUR_PROJECT_DIR}/aaai-claire-
                    clustering/pipeline/excutables)
  works             Number of works. (default: {CORES_IN_YOUR_CPU})

options:
  -h, --help        show this help message and exit
```

Subsequently, an output directory should emerge at the project's root, containing various graphics.