SIGMOD ARI Package Requirements and Guidelines

A SIGMOD ARI package is now **required** to:

- Provide a **fully dockerized setup of the experiments** of the paper
- B**e executable on moderate hardware available to reproducibility reviewers** (a desktop or laptop machine)
- Contain a **single master script** that runs all experiments in a virtualized environment (docker), collects and plots results, and, ideally rebuilds the paper with the resulting plots
- **Author's source code** (or, in extreme cases that source code cannot be shared, an executable)
- A **README file** with the following information**:**
    - **Description of software/library dependencies**
    - **Description of hardware needed.**
    - If some figures cannot be part of the workflow, a brief explanation as to why they are not needed to support the core thesis of the paper
    - **Documentation** on how run the single master script
    - **An estimation of execution time** of the whole workflow to prepare the reviewers accordingly.

NOTES:

I. Right before submitting your artifacts, test the provided workflow on a brand-new machine to see if it works.

II. If the above requirements are not met, the reviewers will mark a submission as failed for this round of submission.

WHAT TO DO IF MY EXPERIMENTS NEED SPECIALIZED HARDWARE, CANNOT BE CONTAINIZED, REQUIRE LARGE AMOUNTS OF RESOURCES (e.g., multiple machines, more memory or cores than can be expected to be available on a desktop/laptop), … ?

In this case, you are still able to submit a reproducibility package. However, it is your responsibility to ensure that reviewers will get access to machines provided by you for the duration of the reproducibility review period and that you are available for tech support if there are issues with the execution environment / access to the environment. In this case, explain in the submission form what the process will be for reviewers to get access. You are still required to provide a single master script that works out of the box as described above (except that it does not have to necessarily run experiments in a virtualized environment).

Badge Eligibility

To be eligible for ACM badges, you need to submit the following:
Artifacts Available: at least the source code has to be provided
Artifacts Evaluated: at least all items described are provided and the experiments run
Results Reproduced: at least all items described are provided and the results were successfully reproduced