BA/MA/SA/Group/Lab:

Automated Ground-Truth Measurements for App Launches on Android

In a first attempt to do automated real-world benchmarking for Android, we developed an App (DiscoMark Benchmark) that uses high-level Android libraries to automatically measure the launch-times of apps. However, since we are using high-level libraries, we do not have granular control over the phone and have to rely on events fired by the OS to perform our measurements.

The goal of this thesis is to come up with an automated system that can provide us with ground truth time measurements for app launches so that we can evaluate the accuracy of our current and future real-world benchmarking implementations. We already have some ideas on how to achieve this, and it will almost certainly involve a mixture of hardware and software. If we piqued your interest, do not hesitate to contact us so that we can have a chat and share our ideas.

Requirements: Interest in hardware and software. Prior experience with Android programming is an advantage. The student(s) should be able to work independently!

Interested? Please contact us for more details!

Contacts

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