



Prof. R. Wattenhofer

## Android App Repackaging Protection

In Android app repackaging is currently a big problem. Apps can easily be repackaged by dishonest developers to make profit from displaying ads or insert malware. Downloaded apps can easily be extracted from the phone. Since they consist of bytecode, changes are relatively easy to implement. Detection of repackaged apps is quite difficult and often not reliable with obfuscated apps. Especially on third party app stores, the apps often do not get checked thoroughly.

The goal of this project is to come up with new ways of preventing attackers from tampering with app code. We already have some ideas on how to approach this, and it would likely involve working with the Android Open Source Project (AOSP). If that sounds like something you're interested in pursuing, don't hesitate to contact us so we can have a chat.

**Requirements:** Programming experience is an advantage. During your thesis, you will meet on a weekly basis with your advisors, to discuss progress and open questions.

**Interested? Please contact us for more details!**

### Contacts

- Gino Brunner: [gino.brunner@tik.ee.ethz.ch](mailto:gino.brunner@tik.ee.ethz.ch),  
ETZ G63
- Simon Tanner: [simon.tanner@tik.ee.ethz.ch](mailto:simon.tanner@tik.ee.ethz.ch),  
ETZ G97

