

ABSTRACT

Background process that running uncontrollable, lead to high usage of battery in Android smartphone. Killing the background processes is one of the solution for saving the battery energy. Wakelock is a background processes that run when Android smartphone sleep. Some of wakelock processes are needed by user, so application mustn't kill the all other application with force. For that reason, a mechanism that arrange wakelock processes into list based on user preferences is needed, so user won't be disturbed when that process is killed. This research suggest a battery saver application that use sorting mechanism for wakelock processes, and with priority that defined, application will kill some of wakelock processes that using a lot of energy from Android smartphone, with corresponding user preferences. By using this battery saver, energy used from Android smartphone battery will be reduced, without bothering user activity.

Keywords : wakelock processes, background processes, battery saver, user preference, Android, smartphone.