Passive mobility measurement and analysis

Résumé du projet de recherche (Langue 1)

In this thesis, the candidate will focus on developing measurement strategies to collect mobility traces in some target areas without having to deploy any software at the user devices. There are two main ways of obtaining mobility data from real users. The first one relies on active measurement techniques, where measurement components are deployed at end-devices. The second approach, the one we will focus on during the thesis, is to rely on passive measurements. The main idea is to rely on an infrastructure composed of sniffers that analyzes the wireless traffic generated by the nodes to estimate their spatial and temporal displacements in the target region. The objective of such a non-intrusive strategy is to identify changing trends of movements and spatial occupancy without the need to identify the nodes explicitly.

Informations complémentaires (Langue 1)

The candidate must hold an M.Sc. in Computer Science or equivalent field. She/he must show a high-level academic record and a strong motivation to pursue as a Ph.D. student. The candidate must have strong expertise in software development and data analysis. Fluent written and spoken English is mandatory.