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# Bachelor-/Masterarbeit

## GNSS position Improvement via reference mobiles

### Beschreibung:

Since Nougat Android (version 7) offers access to GNSS raw data. So the investigation is about a mobile at a reference point - then calculating a reference correction vector (which algorithmic approach can be found here in literature/ in patents) for a mobile in 10 cm, 1 m, 10 m, 50 m, 100 m, 200 m, 500 m, 1 km distance (this in 3 environments in Kassel).

Scientific question: What position accuracies are possible for mobiles this way? (and how does it depend on distance to reference point, how to apply in a city). Derived from a simulation environment (to be written), estimating how many reference mobiles are required along Wilhelmshöher Alee (in the whole of Kassel), and how could this be achieved.

### **Supervisor / Contact:**

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