

Step1: Mobile device positions identification. The positions of mobile devices are identified by the mobile location technology for further cloudlet management in the following steps.

Step2: Device collection generation. The device collection of each cloudlet is derived from the mobile device positions gained by Step1. Depending on device area constraints, devices outside will be removed from corresponding collections.

Step3: Cloudlet management. In this step, the device collections will be estimated based on the cloudlet threshold. A greedy algorithm is utilized for selecting the least necessary cloudlets. All the selected cloudlets are turned on while others are shut down.

