<https://ieeexplore.ieee.org/document/9356601>

Summary:

The paper discusses a method called AMMoC (Attendance Management Method based on Crowdsensing) to address issues in class attendance checking within smart cities. The method involves two phases: initialization and authentication. In the initialization phase, teachers request attendance via a server, which prompts students to submit location information, forming a student location map. In the authentication phase, the server verifies location accuracy by assigning tasks to students, counting attendees, and verifying the results. The AMMoC method, utilizing the Monte Carlo algorithm, demonstrates good anti-cheating capabilities, speed, and minimal disruption to class, making it suitable for classroom attendance applications in smart cities.