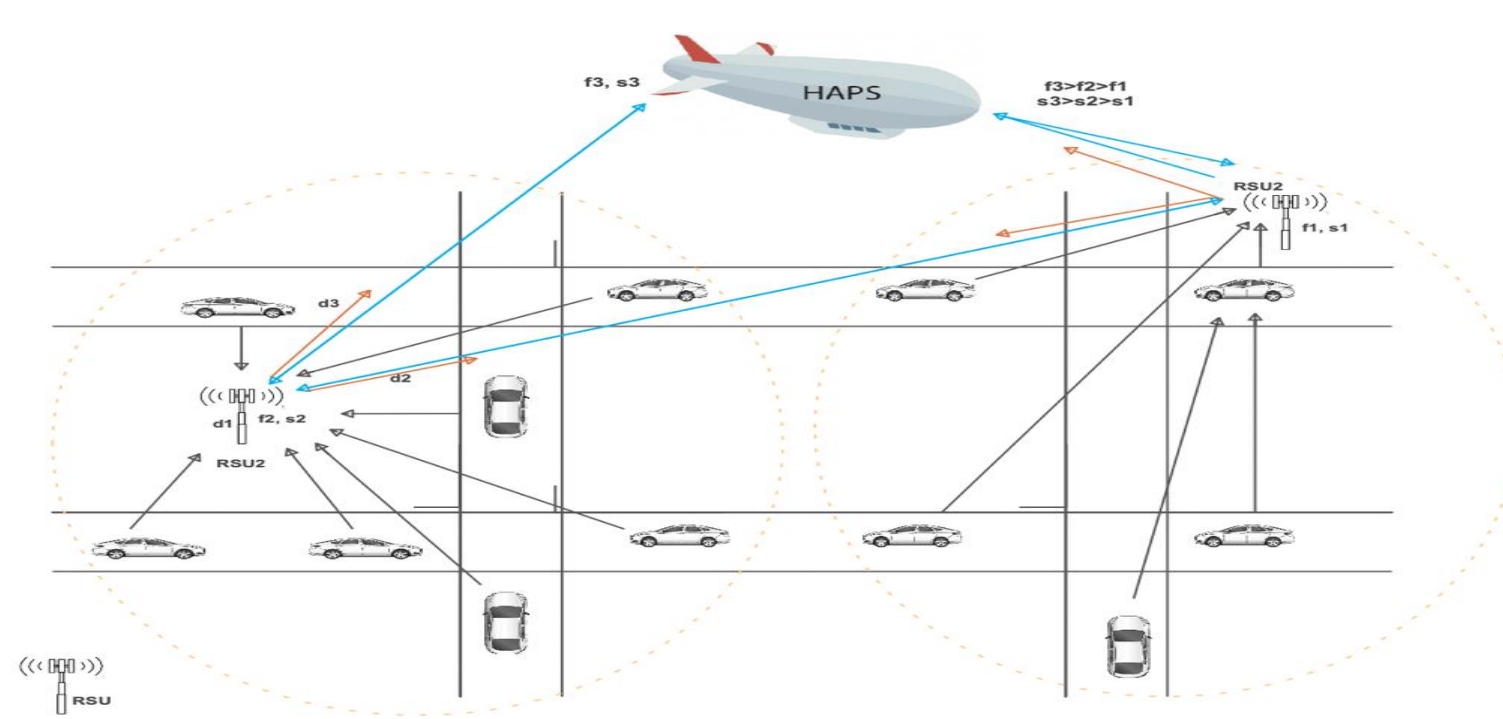


INTRO/ABSTRACT

Because of the differences of scale, diversity, and timeliness, the MEC server has great difficulty in processing and analyzing these data and MEC server has limited computation and storage resources. The computation results of data are time lag. To address these challenges, we are focusing on minimizing the delay of the system by optimizing computation offloading and caching decisions as well as bandwidth and computing resource allocations.

METHODS

We formulated the problem as a delay minimization problem and found out the constraints. We get the solution of the original problem by solving the convex optimization problem. Through dual decomposition method, we provide a distributed algorithm for optimal resource allocation policy. The solution to the dual problem can be broken down into two parts. The uplink transmission time and the offloading policy are included in Level 1 of the inner layer reduction in the outer layer, level 2, is the maximization of Lagrange multipliers.

**RESULTS**

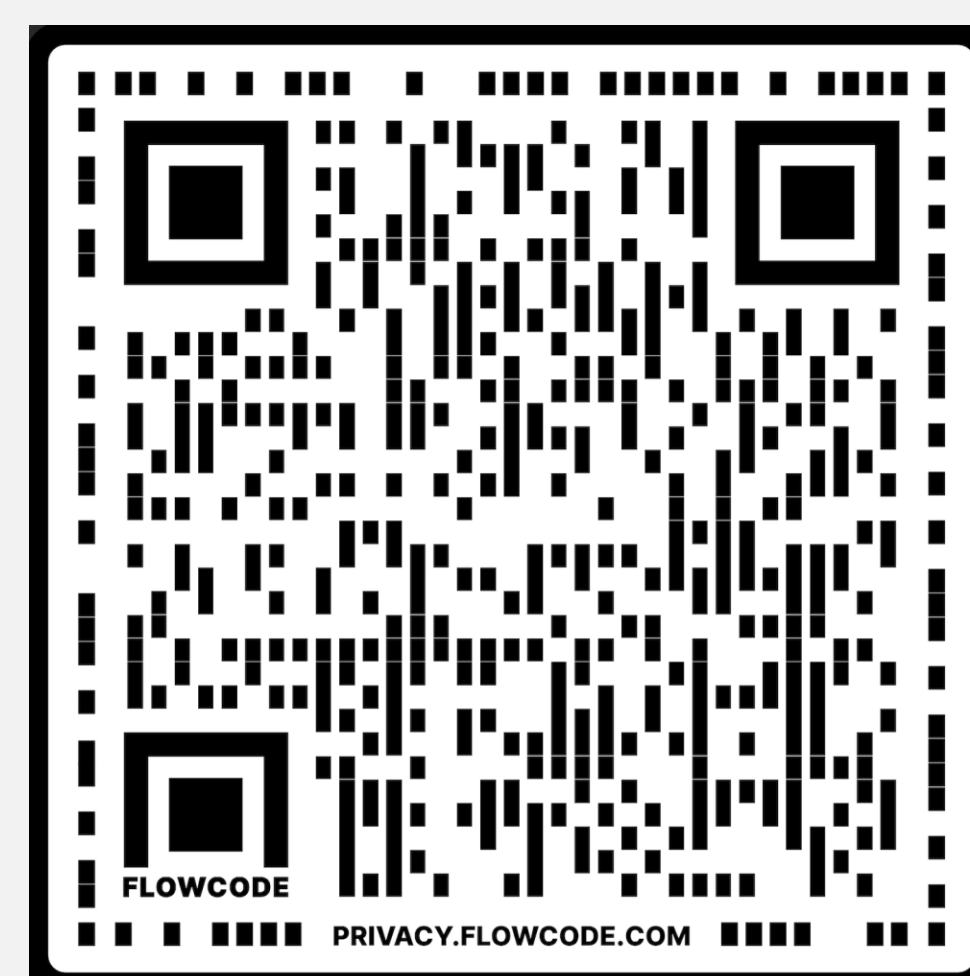
Below is the link to the website where the **results are posted**:

Resources:

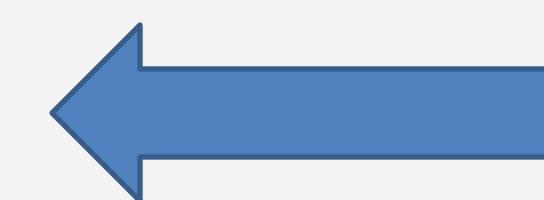
<https://sites.google.com/view/satelliteterrestrialswarm/home>

Using Mobile Edge Computing to manage the traffic by minimizing the delay of the computing at 3 stages :

- 1. Computing at CAV (Local)**
- 2. Computing at RSU**
- 3. Computing at HAPS**



QR Code to Project Website



LinkedIn Profiles are mentioned at the end of the website page