

TRAFFIC SIGNAL CONTROL DEVICE, TRAFFIC SIGNAL CONTROL METHOD, AND
COMPUTER PROGRAM

ABSTRACT

A central device 4 includes: a measurement processing unit 410 that acquires an inflow traffic volume at a first intersection Ci-1; an estimation processing unit 411 that estimates an inflow traffic volume at a second intersection Ci-2 on the basis of at least one of the inflow traffic volume at the first intersection Ci-1 and probe data obtained from a traveling vehicle 5; a control processing unit 412 that generates signal control parameters for the first intersection Ci-1 on the basis of the inflow traffic volume at the first intersection Ci-1, and generates signal control parameters for the second intersection Ci-2 on the basis of the estimated inflow traffic volume at the second intersection Ci-2; and a communication unit 403 that transmits the generated signal control parameters for the first intersection Ci-1 to a traffic signal controller 1a at the first intersection Ci-1, and transmits the generated signal control parameters for the second intersection Ci-2 to a traffic signal controller 1a at the second intersection Ci-2.

[FIG.7]