

ABSTRACT

A transmitting terminal for used in a communication system in which the transmitting terminal which estimates a bandwidth of a network and controls a transmission rate of data, and plural receiving terminals, each copies the data transmitted from the transmitting terminal and transfers the copied data to a receiving terminal in downstream, are connected to each other in a tree shape with the transmitting terminal as a route on the network, includes a receiving section that receives a receiver report including a packet loss rate and a round trip time between the transmitting terminal and each of the receiving terminals, which is transmitted from each of the respective receiving terminals, a bandwidth estimation target terminal selection section that selects a receiving terminal to be estimated in estimating the bandwidth of the network on the basis of distribution tree information and a packet loss rate included in the receiver report, and a bandwidth estimation section that estimates the bandwidth of the network on the basis of the packet loss rate and the round trip time included in the receiver report transmitted from the selected receiving terminal. Accordingly, even if a packet loss status on the network is always changed, high-quality data transmission is enabled.