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(57) **ABSTRACT**

An application acceleration method includes identifying a data packet to be transmitted by an application running on a mobile terminal as a data packet to be accelerated to an application server, and determining network communication qualities of a first network transmission path to an access node via a wireless LAN communication network and a second network transmission path to the access node via a mobile network. The method further includes selecting a network transmission path based on network communication quality from the first network transmission path and the second network transmission path, and transmitting the data packet to the access node via the selected network transmission path such that the access node transmits the data packet to the application server through the network acceleration channel. Apparatus and non-transitory computer-readable storage medium counterpart embodiments are also contemplated.

