

SIGNAL PROCESSING METHOD, COMMUNICATION APPARATUS, COMMUNICATION SYSTEM, AND STORAGE MEDIUM

ABSTRACT

5 This application discloses a signal processing method, a communication apparatus, a communication system, and a storage medium, and relates to the communication field. The method includes: A terminal device generates a first sequence including a preamble sequence, then modulates the first sequence to obtain a first signal, and sends the first signal. Then, when receiving the first signal, a network device synchronizes the first signal based on the preamble sequence, to determine a location of the preamble sequence in the first signal, and demodulates the
10 synchronized first signal to obtain the first sequence. The preamble sequence is a second sequence or an equivalent sequence of the second sequence. In addition, the second sequence is determined based on an m-sequence, and the m-sequence is a preset m-sequence with a small maximum sidelobe of a correlation value during sliding correlation. According to the method, when sending an uplink signal, the terminal device can generate the preamble sequence based on the preset m-
15 sequence with the small maximum sidelobe of the correlation value, thereby improving uplink synchronization performance.

Fig. 6