

CLAIMS

1. A method for uplink channel multiplexing, applied to a terminal and comprising:

when a terminal would transmit multiple overlapping Physical Uplink Control Channels (PUCCHs) in a same slot or sub-slot, if the PUCCH transmissions is in response to a Downlink Control Information (DCI) format detected by the terminal, determining, by the terminal, whether a start symbol S0 of an earliest PUCCH among the overlapping PUCCHs satisfies a first condition;

wherein the first condition satisfied by the start symbol S0 of the earliest PUCCH among the overlapping PUCCHs comprises at least one of the following:

S0 is not before a first symbol, a Cyclic Prefix (CP) of the first symbol starts at a first time after a last symbol of any corresponding PDSCH, and Hybrid Automatic Repeat reQuest-ACK (HARQ-ACK) corresponding to the any corresponding PDSCH has a same first priority index; and

S0 is not before a third symbol, a CP of the third symbol starts at a third time after a last symbol of any Semi-Persistent Scheduling (SPS) PDSCH release, and an HARQ-ACK corresponding to the any SPS PDSCH release has the same first priority index,

wherein the method further comprises:

determining a resource set, wherein the resource set comprises a resource for transmitting the PUCCH in a single slot or sub-slot; and removing the resource for transmitting the PUCCH from the resource set when the resource for transmitting the PUCCH cannot satisfy the first condition.

2. A terminal, comprising:

a memory storing instructions; and

a processor, configured to, when executing the instructions, perform the method of claim 1.

3. A computer-readable storage medium having stored thereon instructions, that, when running in a computer, cause the computer to perform the method of claim 1.