

CLAIMS

1. A method for information transmission, comprising:

receiving, by a terminal device, first information from a network device;

determining, by the terminal device, based on the first information, a first resource for transmitting uplink control information (UCI) in an uplink transmission resource; and

transmitting, by the terminal device, the UCI according to the first resource.

2. The method of claim 1, wherein the first information indicates at least one of:

whether the UCI can be transmitted in the uplink transmission resource;

a number of resources for transmission of the UCI;

a resource proportion for transmission of the UCI;

a number of bits of the UCI that can be transmitted; or

a type of the UCI that can be transmitted.

3. The method of claim 1 or 2, wherein the first information is explicitly or implicitly indicated.

4. The method of claim 3, wherein the first information is carried in an indication field for indicating a modulation and coding scheme (MCS) offset of the UCI.

5. The method of claim 4, wherein a value of a first part of the indication field indicates UCI limited for transmission, and a value of a second part of the indication field indicates UCI unlimited for transmission.

6. The method of claim 5, wherein at least one of the following processing is performed on the UCI limited for transmission:

zero padding, repetition, compression, multiplexing, or dropping.

7. The method of any one of claims 1-6, wherein the terminal device determines the first information according to at least one of a type of a data channel or a duration for data transmission.

8. The method of any one of claims 1-7, wherein the first information is specific to at least one of a semi-persistent resource or a semi-static resource.

9. The method of any one of claims 1-8, wherein the UCI comprises at least one of:

a HARQ-ACK, a rank indicator (RI), a channel quality indication (CQI), a precoding matrix indication (PMI), a CSI reference signal resource indicator (CRI), a strongest layer indication (SLI), or layer 1-reference signal received power (L1-RSRP).

10. A device for information transmission, comprising:

a communication module, configured to receive first information from a network device; and

a determination module, configured to determine, based on the first information, a first resource for transmitting uplink control information (UCI) in an uplink transmission resource,

wherein the communication module is further configured to transmit the UCI according to the first resource.

11. The device of claim 10, wherein the first information indicates at least one of:

whether the UCI can be transmitted in the uplink transmission resource;

a number of resources for transmission of the UCI;

a resource proportion for transmission of the UCI;

a number of bits of the UCI that can be transmitted; or

a type of the UCI that can be transmitted.

12. The device of claim 10 or 11, wherein the first information is explicitly or implicitly indicated.

13. The device of claim 12, wherein the first information is carried in an indication field for indicating a modulation and coding scheme (MCS) offset of the UCI.

14. The device of claim 13, wherein a value of a first part of the indication field indicates UCI limited for transmission, and a value of a second part of the indication field indicates UCI unlimited for transmission.

15. The device of claim 14, wherein the determination module is further configured to perform at least one of the following processing on the UCI limited for transmission:

zero padding, repetition, compression, multiplexing, or dropping.

16. The device of any one of claims 10-15, wherein the terminal device determines the first information according to at least one of a type of a data channel or a duration for data transmission.

17. The device of any one of claims 10-16, wherein the first information is specific to at least one of a semi-persistent resource or a semi-static resource.

18. The device of any one of claims 10-17, wherein the UCI comprises at least one of:

a HARQ-ACK, a rank indicator (RI), a channel quality indication (CQI), a precoding matrix indication (PMI), a CSI reference signal resource indicator (CRI), a strongest layer indication (SLI), or layer 1-reference signal received power (L1-RSRP).

19. A device for information transmission, located in a terminal device, the device comprising:

an input interface, configured to receive first information from a network device;

a processor, configured to determine, based on the first information, a first resource for transmitting uplink control information (UCI) in an uplink transmission resource; and

an output interface, configured to transmit the UCI according to the first resource.

20. The device of claim 19, wherein the first information indicates at least one of:

whether the UCI can be transmitted in the uplink transmission resource;

a number of resources for transmission of the UCI;

a resource proportion for transmission of the UCI;

a number of bits of the UCI that can be transmitted; or

a type of the UCI that can be transmitted.