CLAIMS

What is claimed is:

1. A hybrid automatic repeat request acknowledgement HARQ-ACK codebook generation method, applied to a terminal, wherein the method comprises:

receiving first downlink control information DCI used for scheduling a first physical uplink shared channel PUSCH, wherein the first DCI comprises a first DAI;

determining a correspondence between the first DAI and the N PDSCH groups, wherein the first DAI corresponds to at least one of the N PDSCH groups;

determining, based on the correspondence, a second DAI corresponding to each of N physical downlink shared channel PDSCH groups; and

generating, based on the determined N second DAIs, a dynamic codebook to be transmitted on the first PUSCH, wherein

the dynamic codebook comprises HARQ-ACK bit sequences of the N PDSCH groups, and N is a positive integer;

in a case that N is equal to 1, the correspondence satisfies that a value of the first DAI corresponds to one triggered PDSCH group;

the determining, based on the correspondence, a second DAI corresponding to each of N physical downlink shared channel PDSCH groups comprises: determining the first DAI as the second DAI corresponding to the PDSCH group.

2. The method according to claim 1, wherein in a case that N is greater than 1, the correspondence satisfies that the first DAI corresponds to a first PDSCH group of the N PDSCH groups, wherein the first PDSCH group is prescribed by a protocol;

the determining, based on the correspondence, the second DAI corresponding to each of the N PDSCH groups comprises:

determining the first DAI as the second DAI corresponding to the first PDSCH group; and

determining a respective third DAI corresponding to each second PDSCH group as a respective second DAI corresponding to each second PDSCH group, wherein

the third DAI is a DAI in DCI that is last detected by the terminal and that

corresponds to the second PDSCH group, and the second PDSCH group is a PDSCH group of the N PDSCH groups other than the first PDSCH group.

3. The method according to claim 1, wherein in a case that N is greater than 1, the correspondence satisfies that the first DAI corresponds to the N PDSCH groups, the determining, based on the correspondence, the second DAI corresponding to each of the N PDSCH groups comprises:

obtaining a fourth DAI in the second DCI corresponding to each of the N PDSCH groups, wherein the second DCI corresponding to each PDSCH group is DCI that is last detected by the terminal and that corresponds to the PDSCH group;

comparing a first value with a value of the first DAI to obtain a corresponding comparison result, wherein the first value is determined based on a sum of values of the obtained N fourth DAIs; and

determining, based on the comparison result, the second DAI corresponding to each of the N PDSCH groups.

4. The method according to claim 3, wherein the determining, based on the comparison result, the second DAI corresponding to each of the N PDSCH groups comprises:

in a case that the first value is not equal to the value of the first DAI, determining a fifth DAI, wherein the fifth DAI is used for indicating the number of pieces of DCI that is missed in detection and that is used for scheduling a PDSCH in the N PDSCH groups; and

determining, based on the fifth DAI, the second DAI corresponding to each of the N PDSCH groups.

5. The method according to claim 4, wherein in a case that the terminal has not enabled code block group CBG-based HARQ transmission, the determining, based on the fifth DAI, the second DAI corresponding to each of the N PDSCH groups comprises any one of the following:

in a case that the fifth DAI corresponds to the third PDSCH group of the N PDSCH groups, determining, based on the fifth DAI and a sixth DAI, a second DAI corresponding to the third PDSCH group, and determining a respective seventh DAI corresponding to each fourth PDSCH group as a respective second DAI corresponding to each fourth

PDSCH group; or

in a case that the fifth DAI does not correspond to any one of the N PDSCH groups, determining a DAI in DCI that is last detected and that corresponds to each of the N PDSCH groups as the second DAI corresponding to the PDSCH group, wherein

the sixth DAI is a DAI in DCI that is last detected by the terminal and that corresponds to the third PDSCH group, the seventh DAI is a DAI in DCI that is last detected by the terminal and that corresponds to the fourth PDSCH group, the third PDSCH group is any one of the N PDSCH groups, and the fourth PDSCH group is a PDSCH group of the N PDSCH groups other than the third PDSCH group.

6. An information transmitting method, applied to a network-side device, wherein the method comprises:

transmitting, to a terminal, first downlink control information DCI used for scheduling a first physical uplink shared channel PUSCH, wherein the first DCI comprises a first DAI, and the first DAI is used for generating a dynamic codebook to be transmitted on the first PUSCH, wherein

the dynamic codebook comprises HARQ-ACK bit sequences of N physical downlink shared channel PDSCH groups, and N is a positive integer;

wherein the first DAI corresponds to at least one of the N PDSCH groups;

the first DCI is used to cause the terminal to determine a correspondence between the first DAI and the N PDSCH groups, determine, based on the correspondence, a second DAI corresponding to each of N physical downlink shared channel PDSCH groups, to generate the dynamic codebook;

in a case that N is equal to 1, a value of the first DAI corresponds to one triggered PDSCH group.

7. The method according to claim 6, wherein in a case that N is greater than 1, the first DAI corresponds to the N PDSCH groups, or the first DAI corresponds to the first PDSCH group of the N PDSCH groups, and the first PDSCH group is any one of the N PDSCH groups.

8. The method according to claim 7, wherein in a case that the first DAI corresponds to the N PDSCH groups, the first DAI is determined based on a sum of values of N ninth DAIs, wherein

each of the N PDSCH groups corresponds to one ninth DAI, each ninth DAI is carried in third DCI corresponding to a PDSCH group that corresponds to the ninth DAI, and the third DCI corresponding to each PDSCH group is DCI that is last transmitted by the network-side device and that corresponds to the PDSCH group.

9. A terminal, comprising a processor, a memory, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, the steps of the HARQ-ACK codebook generation method according to any one of claims 1 to 5 are implemented.

10. A network-side device, comprising a processor, a memory, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, the steps of the information transmitting method according to any one of claims 6 to 8 are implemented.

11. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is executed by a processor, the steps of the HARQ-ACK codebook generation method according to any one of claims 1 to 5 or the steps of the information transmitting method according to any one of claims 6 to 8 are implemented.