

CLAIMS

What is claimed is:

1. An information transmission method, comprising:

when resource overlapping occurs between a first channel state information CSI report and a second CSI report, performing the following operations:

if a physical channel corresponding to the first CSI report is a physical uplink control channel PUCCH, a physical channel corresponding to the second CSI report is a PUCCH, and a multi-CSI-physical uplink control channel-resource list is configured, transmitting the CSI reports with overlapping resources based on a resource in the multi-CSI-physical uplink control channel-resource list; ~~and/or~~

if a physical channel corresponding to the first CSI report is a PUCCH, a physical channel corresponding to the second CSI report is a physical uplink shared channel PUSCH, and the PUCCH and the PUSCH are transmitted on different carriers, discarding the PUCCH and the CSI report carried on the PUCCH, and transmitting the PUSCH and the CSI report carried on the PUSCH;

wherein the transmitting the CSI reports with overlapping resources based on a resource in the multi-CSI-physical uplink control channel-resource list comprises:

multiplexing all CSI reports including the first CSI report and the second CSI report in a target slot on a target resource in the multi-CSI-physical uplink control channel-resource list for transmission, wherein the target slot is a slot in which the CSI reports with overlapping resources are transmitted;

wherein the multiplexing all CSI reports including the first CSI report and the second CSI report in a target slot on a target resource in the multi-CSI-physical uplink control channel-resource list for transmission comprises:

when a code rate of all the CSI reports including the first CSI report and the second CSI report in the target slot is greater than a maximum code rate configured for the target resource, discarding some of the CSI reports based on the priorities of the CSI reports, and multiplexing non-discarded CSI reports in the target slot on the target resource for transmission;

wherein each CSI report comprises two parts: a CSI part 1 and a CSI part 2, and a priority of the CSI part 2 is lower than a priority of the CSI part 1;

when the code rate of all the CSI reports including the first CSI report and the second CSI report in the target slot is greater than the maximum code rate configured for the target resource, discarding some of the CSI reports based on the priorities of the CSI reports, comprises:

according to priorities of all the CSI reports including the first CSI report and the second CSI report in the target slot, first discarding the CSI parts 2 of the CSI reports with lower

priorities among all the CSI reports including the first CSI report and the second CSI report in the target slot, and then discarding the CSI parts 1 of the CSI reports with the lower priorities among all the CSI reports including the first CSI report and the second CSI report in the target slot.

2. The information transmission method according to claim 1, further comprising:

when resource overlapping occurs between the first channel state information CSI report and the second CSI report, if the physical channel corresponding to the first CSI report is a PUCCH, the physical channel corresponding to the second CSI report is a PUCCH, and no multi-CSI-physical uplink control channel-resource list is configured, transmitting the CSI reports with overlapping resources based on priorities of the CSI reports.

3. The information transmission method according to claim 2, wherein the transmitting the CSI reports with overlapping resources based on priorities of the CSI reports comprises:

selecting to transmit a CSI report with a higher priority from the first CSI report and the second CSI report.

~~4. The information transmission method according to claim 1, wherein the transmitting the CSI reports with overlapping resources based on a resource in the multi-CSI-physical uplink control channel-resource list comprises:~~

~~multiplexing all CSI reports in a target slot on a target resource in the multi-CSI-physical uplink control channel-resource list for transmission, wherein the target slot is a slot in which the CSI reports with overlapping resources are transmitted.~~

~~5. The information transmission method according to claim 4, wherein the multiplexing all CSI reports in a target slot on a target resource in the multi-CSI-physical uplink control channel-resource list for transmission comprises:~~

~~when a code rate corresponding to all the CSI reports in the target slot is greater than a maximum code rate configured for the target resource, discarding some of the CSI reports based on the priorities of the CSI reports, and multiplexing non-discarded CSI reports in the target slot on the target resource for transmission.~~

~~64.~~ A terminal, comprising:

a first transmission module, configured to, when resource overlapping occurs between a first channel state information CSI report and a second CSI report, if a physical channel corresponding to the first CSI report is a physical uplink control channel PUCCH, a physical channel corresponding to the second CSI report is a PUCCH, and a multi-CSI-physical uplink control channel-resource list is configured, transmit the CSI reports with overlapping resources based on a resource in the multi-CSI-physical uplink control channel-resource list; ~~and/or~~

if a physical channel corresponding to the first CSI report is a PUCCH, a physical channel

corresponding to the second CSI report is a physical uplink shared channel PUSCH, and the PUCCH and the PUSCH are transmitted on different carriers, discard the PUCCH and the CSI report carried on the PUCCH, and transmit the PUSCH and the CSI report carried on the PUSCH;

wherein the first transmission module is configured to multiplex all CSI reports including the first CSI report and the second CSI report in a target slot on a target resource in the multi-CSI-physical uplink control channel-resource list for transmission, wherein the target slot is a slot in which the CSI reports with overlapping resources are transmitted;

wherein the first transmission module is configured to: when a code rate of all the CSI reports including the first CSI report and the second CSI report in the target slot is greater than a maximum code rate configured for the target resource, discard some of the CSI reports based on the priorities of the CSI reports, and multiplex non-discarded CSI reports in the target slot on the target resource for transmission;

wherein each CSI report comprises two parts: a CSI part 1 and a CSI part 2, and a priority of the CSI part 2 is lower than a priority of the CSI part 1;

when the code rate of all the CSI reports including the first CSI report and the second CSI report in the target slot is greater than the maximum code rate configured for the target resource and when discarding some of the CSI reports based on the priorities of the CSI reports, the first transmission module is configured to:

according to priorities of all the CSI reports including the first CSI report and the second CSI report in the target slot, first discard the CSI parts 2 of the CSI reports with lower priorities among all the CSI reports including the first CSI report and the second CSI report in the target slot, and then discard the CSI parts 1 of the CSI reports with the lower priorities among all the CSI reports including the first CSI report and the second CSI report in the target slot.

75. The terminal according to claim 64, further comprising:

a second transmission module, configured to, when resource overlapping occurs between the first channel state information CSI report and the second CSI report, if the physical channel corresponding to the first CSI report is a PUCCH, the physical channel corresponding to the second CSI report is a PUCCH, and no multi-CSI-physical uplink control channel-resource list is configured, transmit the CSI reports with overlapping resources based on priorities of the CSI reports.

86. The terminal according to claim 75, wherein the second transmission module is configured to select to transmit a CSI report with a higher priority from the first CSI report and the second CSI report.

~~9. The method of claim 6, wherein the first CSI report is transmitted on a first physical uplink control channel (PUCCH) and the second CSI report is transmitted on a second physical uplink control channel (PUCCH) and the PUCCH and the PUSCH are transmitted on different carriers, discard the PUCCH and the CSI report carried on the PUCCH, and transmit the PUSCH and the CSI report carried on the PUSCH;~~

memory and capable of running on the processor, wherein when the computer program is executed by the processor, the steps of the information transmission method according to any one of claims 1 to ~~5-3~~ are implemented.

~~10. The terminal according to claim 9, wherein the first transmission module is configured to: when a code rate corresponding to all the CSI reports in the target slot is greater than a maximum code rate configured for the target resource, discard some of the CSI reports based on the priorities of the CSI reports, and multiplex non-discarded CSI reports in the target slot on the target resource for transmission.~~

~~117.~~ A terminal, comprising a memory, a processor, 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 transmission method according to any one of claims 1 to ~~5-3~~ are implemented.

~~128.~~ 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 information transmission method according to any one of claims 1 to ~~5-3~~ are implemented.