What is claimed is:

1. An information transmission method performed by a first terminal, comprising:

transmitting Sidelink control information (SCI) to a second terminal when a first condition is satisfied, the SCI being used by the second terminal to determine resource blocks and slots associated with the SCI and exclude candidate single-slot resources when a second condition is satisfied, wherein, the second condition is that the resource blocks and the slots indicated by the SCI, or the resource blocks and slots determined according to same or different SCI formats assumed to be received in a second slot set, overlap with the candidate single-slot resources;

wherein the first condition comprises reference signal received power (RSRP) measurement performed for a received SCI format is higher than a first threshold.

2. The method according to claim 1, wherein the first condition further comprises at least one of following:

a priority value indicated by a priority field in the received SCI format is below a second threshold;

the RSRP measurement performed for the received SCI format is higher than the first threshold, and the priority value indicated by the priority field in the received SCI format is below the second threshold;

slots and/or resource blocks determined by received multiple SCI formats overlap;

a first distance is less than or equal to a first preset distance, and/or a second distance is greater than or equal to a second preset distance; the first distance is a distance between a position of the first terminal and a center position of a nearest zone indicated by a zone identifier Zone_id in a received SCI; the second distance is a distance between the center position of the nearest zone indicated by Zone_id in the received SCI and a position of a second terminal.

3. The method according to claim 1, wherein the SCI transmitted by the first terminal comprises at least one of the following:

a priority which is a value indicated by a priority field in a received SCI format;

a resource reservation period which is a value indicated by a resource reservation period field in the received SCI format;

time domain resource assignment information;

frequency domain resource assignment information.

4. The method according to claim 3, wherein the time domain resource assignment information comprises at least one of following:

first timing information, wherein the first timing information is configured to indicate an offset value of a slot in which the first terminal transmits the SCI relative to a slot in which the received SCI format is located, or an offset value of a slot in which the received SCI format is located relative to a slot in which the first terminal transmits the SCI;

second timing information k, wherein for SCI format reception which ends in a slot n or a Physical Sidelink Shared channel (PSSCH) reception scheduled by the SCI, the first terminal transmits the SCI in a slot n + k; or, for a SCI transmitted in a slot m, the first terminal receives a SCI format in a slot m-k;

first indication information, wherein the first indication information is a value indicated by a time domain resource assignment field in the received SCI format.

5. The method according to claim 3, wherein the frequency domain resource assignment information comprises at least one of following:

first offset information, which is an offset value of a sub-channel on which a lowest physical resource block (PRB) of the received SCI format is located relative to a sub-channel on which the lowest PRB transmitting the SCI is located, or an offset value of a sub-channel in which the lowest PRB transmitting the SCI is located relative to a sub-channel in which the lowest PRB of the received SCI format is located;

second offset information p, wherein a sub-channel on which the lowest PRB of the received SCI format is located is q, a sub-channel on which the lowest PRB transmitting the SCI by the first terminal is located is q+p, or, a sub-channel on which the lowest PRB transmitting the SCI by the first terminal is located is r, and a sub-channel on which the lowest PRB of the received SCI format is located is r + p;

second indication information, which is configured to indicate a sub-channel on which the lowest PRB of the received SCI format is located;

third indication information which is a value indicated by a frequency domain resource assignment field in the received SCI format.

6. The method according to claim 1, further comprising:

determining a resource subset to be reported to a higher layer by at least one of the following ways:

a quantity L of sub-channels provided by the higher layer for transmission of a Physical Sidelink Control Channel (PSCCH) or a Physical Sidelink Shared Channel (PSSCH) is 1, or a quantity of sub-channels for transmission of a PSCCH or a PSSCH is set to 1; or,

a quantity L of sub-channels provided by the higher layer for the transmission of the PSCCH or the PSSCH is 1, or a quantity L of sub-channels configured for transmission of the PSCCH or PSSCH is 1, and candidate single-slot resources correspond to a number of consecutive L sub-channels in a time interval [n+T1, n+T2]; a start sub-channel of consecutive L sub-channels is the same as a sub-channel on which a lowest PRB of a received SCI format is located.

7. An information transmission method performed by a second terminal, comprising:

receiving Sidelink control information (SCI) from a first terminal, the SCI being sent by the first terminal when a first condition is satisfied;

determining resource blocks and slots associated with the SCI;

excluding candidate single-slot resources when a second condition is satisfied, wherein, the second condition is that the resource blocks and the slots indicated by the SCI, or the resource blocks and slots determined according to same or different SCI formats assumed to be received in a second slot set, overlap with the candidate single-slot resources,

wherein the first condition comprises reference signal received power (RSRP) measurement performed for a received SCI format is higher than a first threshold.

8. The method according to claim 7, wherein the first condition further comprises:

a priority value indicated by a priority field in the received SCI format is below a second threshold;

the RSRP measurement performed for the received SCI format is higher than the first threshold, and the priority value indicated by the priority field in the received SCI format is below the second threshold;

slots and/or resource blocks determined by received multiple SCI formats overlap;

a first distance is less than or equal to a first preset distance, and/or a second distance is greater than or equal to a second preset distance; the first distance is a distance between a position of the first terminal and a center position of a nearest zone indicated by a zone identifier Zone_id in a received SCI; the second distance is a distance between the center position of the nearest zone indicated by Zone_id in the received SCI and a position of the second terminal.

9. The method according to claim 7, wherein determining the resource blocks and the slots associated with the SCI comprises:

determining the resource blocks and the slots indicated by resources carrying the SCI, and/or time domain resource assignment information and/or frequency domain resource assignment information in the SCI.

10. The method according to claim 9, wherein the time domain resource assignment information comprises at least one of the following:

first timing information, wherein the first timing information is configured to indicate an offset value of a slot in which the SCI is received relative to a slot in which a first resource is located, or an offset value of a slot in which the first resource is located relative to the slot in which the SCI is received;

second timing information k, wherein for the SCI received in a slot m, a slot in which the first resource is located is m-k, or a slot in which the first resource is located is n, the second terminal receives the SCI in a slot n+k;

first indication information, wherein the first indication information is configured to indicate time offset values relative to a first resource, a second resource and/or the third resource.

11. The method according to claim 9, wherein the frequency domain resource assignment information comprises at least one of following:

first offset information, which is an offset value of a start sub-channel of a first resource relative to a sub-channel on which a lowest PRB from which the SCI is received is located, or an offset value of a sub-channel on which a lowest PRB from which the SCI is received is located relative to a start sub-channel of a first resource;

second offset information p, wherein a start sub-channel of a first resource is q, a sub-channel on which a lowest PRB from which the SCI is received is located is q+p, or a sub-channel on which a lowest PRB from which the SCI is received is located is r, a start sub-channel of a first resource is r+p;

second indication information, wherein the second indication information is configured to indicate a start sub-channel of a first resource;

third indication information which is configured to indicate a quantity of sub-channels allocated consecutively for each resource and start sub-channel indexes of remaining SCI indication resources other than the first resource.

12. The method according to claim 9, wherein determining the resource blocks and the slots indicated by resources carrying the SCI, and/or the time domain resource assignment information and/or the frequency domain resource assignment information in the SCI comprises at least one of the following:

determining a resource slot according to resources of the SCI and/or the time domain resource assignment information in the SCI;

determining a slot in which a first resource is located, according to first timing information or second timing information;

determining time offset values relative to a first resource, a second resource, and/or a third resource according to first indication information.

13. The method according to claim 12, wherein determining the resource slot according to the resources of the SCI and/or the time domain resource assignment information in the SCI comprises:

for SCI reception which ends in a slot m, determining that the slot in which the first resource is located is a slot m-k.

14. The method according to claim 9, wherein determining the resource blocks and the slots indicated by resources carrying the SCI, and/or the time domain resource assignment information and/or the frequency domain resource assignment information in the SCI comprises at least one of the following:

determining a sub-channel according to resources of the SCI and/or the frequency domain resource assignment information in the SCI;

determining a start sub-channel of a first resource according to first offset information or second offset information or second indication information;

determining a quantity of sub-channels continuously allocated for each resource and start sub-channel indexes of remaining SCI indication resources other than the first resource according to third indication information.

15. The method according to claim 14, wherein determining the sub-channel according to the resources of the SCI and/or the frequency domain resource assignment information in the SCI comprises:

for a sub-channel r in which a lowest PRB of a received SCI is located, determining a start sub-channel of the first resource to be r+p or r.

16. An information transmission device applied to a first terminal, comprising:

a transmitting module configured to transmit Sidelink control information (SCI) to a second terminal when a first condition is satisfied, the SCI being used by the second terminal to determine resource blocks and slots associated with the SCI and exclude candidate single-slot resources when a second condition is satisfied, wherein, the second condition is that the resource blocks and the slots indicated by the SCI, or the resource blocks and slots determined according to same or different SCI formats assumed to be received in a second slot set, overlap with the candidate single-slot resources;

wherein the first condition comprises reference signal received power (RSRP) measurement performed for a received SCI format is higher than a first threshold.

17. The information transmission device according to claim 16, wherein, the first condition further comprises at least one of following:

a priority value indicated by a priority field in the received SCI format is below a second threshold;

the RSRP measurement performed for the received SCI format is higher than the first threshold, and the priority value indicated by the priority field in the received SCI format is below the second threshold;

slots and/or resource blocks determined by received multiple SCI formats overlap;

a first distance is less than or equal to a first preset distance, and/or a second distance is greater than or equal to a second preset distance; the first distance is a distance between a position of the first terminal and a center position of a nearest zone indicated by a zone identifier Zone_id in a received SCI; the second distance is a distance between the center position of the nearest zone indicated by Zone_id in the received SCI and a position of a second terminal.

18. An information transmission device applied to a second terminal, comprising:

a determining module configured to determine resource blocks and slots associated with Sidelink control information (SCI), wherein the SCI is received from a first terminal when a first condition is satisfied;

a second processing module configured to exclude candidate single-slot resources when a second condition is satisfied, wherein, the second condition is that the resource blocks and the slots indicated by the SCI, or the resource blocks and slots determined according to same or different SCI formats assumed to be received in a second slot set, overlap with the candidate single-slot resources,

wherein the first condition comprises: reference signal received power (RSRP) measurement performed for a received SCI format is higher than a first threshold.

19. An information transmission device, comprising:

a processor, and a memory for storing a computer program executable on the processor,

wherein when the processor executes the computer program, the processor implements steps of the method according to any one of claims 1 to 6 or implements steps of the method according to any one of claims 7 to 15.

20. A computer readable storage medium having a computer program stored thereon, wherein when the computer program is executed by a processor, the processor implements steps of the method according to any one of claims 1 to 6 or implements steps of the method according to any one of claims 7 to 15.