CLAIMS

1. A signal transmission method, comprising:

determining a transmission priority in a case that transmission of a first signal conflicts with transmission of a second signal; and

preferentially transmitting or receiving the first signal based on the transmission priority, or preferentially transmitting or receiving the second signal based on the transmission priority;

wherein the first signal comprises a sidelink synchronization signal (SLSS) or a signal carried by a physical sidelink broadcast channel (PSBCH);

wherein the determining a transmission priority comprises: in a case that a priority parameter of the first signal is smaller than a first priority threshold, determining that a transmitting or receiving priority of the first signal is higher than a transmitting or receiving priority of the second signal;

wherein the second signal is a Uu interface transmission other than PRACH data, a physical uplink shared channel (PUSCH) scheduled in a random access response (RAR) uplink grant, or a PUCCH carrying a sidelink hybrid automatic repeat request acknowledgment information report.

2. The method according to claim 1, wherein the determining a transmission priority further comprises:

determining the transmission priority further based on one or more of signal types, radio access technologies, and signal transmission directions of the first signal and second signal.

3. The method according to claim 1, wherein the preferentially transmitting or receiving the first signal based on the transmission priority, or preferentially transmitting or receiving the second signal based on the transmission priority comprises:

in a case that a transmitting priority of the first signal is higher than a transmitting priority of the second signal, transmitting the first signal, and stopping transmitting the second signal; or transmitting the first signal, and transmitting the second signal at a reduced power; or

in a case that a transmitting priority of the second signal is higher than a transmitting priority of the first signal, transmitting the second signal, and stopping transmitting the first signal; or transmitting the second signal, and transmitting the first signal at a reduced power.

4. A communications device, comprising:

a first determining module, configured to determine a transmission priority in a case that transmission of a first signal conflicts with transmission of a second signal; and

a first transceiver module, configured to preferentially transmit or receive the first signal based on the transmission priority, or preferentially transmit or receive the second signal based on the transmission priority;

wherein the first signal comprises a sidelink synchronization signal (SLSS) or a signal carried by a physical sidelink broadcast channel (PSBCH);

wherein the first determining module is further configured to: in a case that a priority parameter of the first signal is smaller than a first priority threshold,

determine that a transmitting or receiving priority of the first signal is higher than a transmitting or receiving priority of the second signal;

wherein the second signal is a Uu interface transmission other than PRACH data, a physical uplink shared channel (PUSCH) scheduled in a random access response (RAR) uplink grant, or a PUCCH carrying a sidelink hybrid automatic repeat request acknowledgment information report.

5. The communications device according to claim 4, wherein the first determining module is further configured to determine the transmission priority further based on one or more of signal types, radio access technologies, and signal transmission directions of the first signal and second signal.

6. The communications device according to claim 4, wherein the first transceiver module is configured to: in a case that a transmitting priority of the first signal is higher than a transmitting priority of the second signal, transmit the first signal, and stop transmitting the second signal; or transmit the first signal, and transmit the second signal at a reduced power; or

in a case that a transmitting priority of the second signal is higher than a transmitting priority of the first signal, transmit the second signal, and stop transmitting the first signal; or transmit the second signal, and transmit the first signal at a reduced power.

7. 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 signal transmission method according to any one of claims 1 to 3 are implemented.