CLAIMS

1. A method for wireless communication, comprising:

receiving, at a wireless device, downlink control information corresponding to a transmission of a transport block over a plurality of consecutive transmission time intervals (TTIs);

identifying a redundancy version sequence for the transport block; and

transmitting or receiving each redundancy version of a plurality of redundancy versions and a repetition of each redundancy version of the plurality of redundancy versions in adjacent TTIs of the plurality of consecutive TTIs based at least in part on the redundancy version sequence.

2. The method of claim 1, wherein the wireless device is preconfigured with the redundancy version sequence.

3. The method of claim 1, further comprising:

processing the downlink control information to identify a starting redundancy version in the redundancy version sequence.

4. The method of claim 3, wherein subsequent redundancy versions occurring after the starting redundancy version in the redundancy version sequence are redundancy version two, redundancy version three, and redundancy version one.

5. The method of claim 1, wherein the downlink control information schedules the transmission of the transport block over the plurality of consecutive TTIs.

6. The method of claim 1, further comprising:

processing the downlink control information to identify an indicator that identifies a starting redundancy version in the redundancy version sequence.

7. The method of claim 1, wherein identifying the redundancy version sequence comprises:

processing signaling that configures the wireless device with the redundancy version sequence based at least in part on a sequence criterion.

8. The method of claim 7, wherein the sequence criterion comprises a performance criterion.

9. The method of claim 7, wherein the sequence criterion comprises a self-decodability criterion.

10. The method of claim 9, wherein the redundancy version sequence comprises a first redundancy version and a bit-reversed version of the first redundancy version.

11. The method of claim 9, wherein the redundancy version sequence comprises a single redundancy version.

12. The method of claim 1, wherein transmitting or receiving each redundancy version of the plurality of redundancy versions and the repetition of each redundancy version of the plurality of redundancy versions in adjacent TTIs of the plurality of consecutive TTIs comprises:

transmitting or receiving a first redundancy version of the plurality of redundancy versions and a repetition of the first redundancy version within a first TTI subset of a plurality of TTI subsets of the plurality of consecutive TTIs; and

transmitting or receiving a second redundancy version of the plurality of redundancy versions and a repetition of the second redundancy version within a second TTI subset of the plurality of TTI subsets of the plurality of consecutive TTIs.

13. The method of claim 12, further comprising:

determining a size of the first TTI subset, wherein a number of repetitions of the first redundancy version transmitted or received in the first TTI subset is based at least in part on the determined size.

14. The method of claim 12, further comprising:

identifying the plurality of TTI subsets based at least in part on an aggregation level, a code rate, or a combination thereof.

15. The method of claim 1, further comprising:

transmitting or receiving a retransmission of the plurality of redundancy versions of the transport block in a second plurality of TTIs based at least in part on a second redundancy

version sequence that differs from the redundancy version sequence.

16. The method of claim 1, wherein transmitting or receiving each redundancy version of the plurality of redundancy versions and the repetition of each redundancy version of the plurality of redundancy versions in adjacent TTIs comprises:

transmitting or receiving a first transmission that includes a first subset of the redundancy versions of the transport block corresponding to a first subset of the redundancy version sequence; and

transmitting or receiving a second transmission that includes a second subset of the redundancy versions of the transport block corresponding to a second subset of the redundancy version sequence.

17. A method for wireless communication, comprising:

transmitting, by a wireless device, downlink control information corresponding to a transmission of a transport block over a plurality of consecutive transmission time intervals (TTIs);

identifying a redundancy version sequence for the transport block; and

transmitting or receiving each redundancy version of a plurality of redundancy versions and a repetition of each redundancy version of the plurality of redundancy versions in adjacent TTIs of in the plurality of consecutive TTIs based at least in part on the redundancy version sequence.

18. The method of claim 17, further comprising:

transmitting an indication of the redundancy version sequence.

19. The method of claim 18, wherein the indication identifies a starting redundancy version in the redundancy version sequence.

20. The method of claim 19, wherein the indication is in a redundancy version field of the downlink control information, and wherein the starting redundancy version in the redundancy version sequence is of a beginning TTI of the plurality of consecutive TTIs.

21. The method of claim 20, wherein subsequent redundancy versions occurring after the starting redundancy version in the redundancy version sequence are

redundancy version two, redundancy version three, and redundancy version one.

22. The method of claim 18, wherein the indication is transmitted in the downlink control information.

23. The method of claim 17, wherein the downlink control information schedules the transmission of the transport block over the plurality of consecutive TTIs.

24. The method of claim 18, wherein the indication is transmitted in radio resource control signaling.

25. An apparatus for wireless communication, comprising:

a processor;

memory in electronic communication with the processor; and

instructions stored in the memory and executable by the processor to cause the apparatus to:

receive downlink control information corresponding to a transmission of a transport block over a plurality of consecutive transmission time intervals (TTIs);

identify a redundancy version sequence for the transport block; and

transmit or receive each redundancy version of a plurality of redundancy versions and a repetition of each redundancy version of the plurality of redundancy versions in adjacent TTIs of the plurality of consecutive TTIs based at least in part on the redundancy version sequence.

26. The apparatus of claim 25, wherein the apparatus is preconfigured with the redundancy version sequence.

27. The apparatus of claim 25, wherein the instructions are further executable by the processor to cause the apparatus to:

process the downlink control information to identify a starting redundancy version in the redundancy version sequence.

28. The apparatus of claim 27, wherein subsequent redundancy versions occurring after the starting redundancy version in the redundancy version sequence are redundancy version two, redundancy version three, and redundancy version one.

29. The apparatus of claim 25, wherein the downlink control information schedules the transmission of the transport block over the plurality of consecutive TTIs.

30. The apparatus of claim 25, wherein the instructions are further executable by the processor to cause the apparatus to:

process the downlink control information to identify an indicator that identifies a starting redundancy version in the redundancy version sequence.

31. The apparatus of claim 25, wherein the instructions to identify the redundancy version sequence are executable by the processor to cause the apparatus to:

process signaling that configures the apparatus with the redundancy version sequence based at least in part on a sequence criterion.

32. The apparatus of claim 31, wherein the sequence criterion comprises a performance criterion.

33. The apparatus of claim 31, wherein the sequence criterion comprises a self-decodability criterion.

34. The apparatus of claim 33, wherein the redundancy version sequence comprises a first redundancy version and a bit-reversed version of the first redundancy version.

35. The apparatus of claim 33, wherein the redundancy version sequence comprises a single redundancy version.

36. The apparatus of claim 25, wherein the instructions to transmit or receive each redundancy version of the plurality of redundancy versions and the repetition of each redundancy version of the plurality of redundancy versions in adjacent TTIs of the plurality of consecutive TTIs are executable by the processor to cause the apparatus to:

transmit or receive a first redundancy version of the plurality of redundancy versions and a repetition of the first redundancy version within a first TTI subset of a plurality of TTI subsets of the plurality of consecutive TTIs; and

transmit or receive a second redundancy version of the plurality of redundancy versions and a repetition of the second redundancy version within a second TTI subset of the plurality of TTI subsets of the plurality of consecutive TTIs.

37. The apparatus of claim 36, wherein the instructions are further executable by the processor to cause the apparatus to:

determine a size of the first TTI subset, wherein a number of repetitions of the first redundancy version transmitted or received in the first TTI subset is based at least in part on the determined size.

38. The apparatus of claim 36, wherein the instructions are further executable by the processor to cause the apparatus to:

identify the plurality of TTI subsets based at least in part on an aggregation level, a code rate, or a combination thereof.

39. The apparatus of claim 25, wherein the instructions are further executable by the processor to cause the apparatus to:

transmit or receive a retransmission of the plurality of redundancy versions of the transport block in a second plurality of TTIs based at least in part on a second redundancy version sequence that differs from the redundancy version sequence.

40. The apparatus of claim 25, wherein the instructions to transmit or receive each redundancy version of the plurality of redundancy versions and the repetition of each redundancy version of the plurality of redundancy versions in adjacent TTIs of are executable by the processor to cause the apparatus to:

transmit or receive a first transmission that includes a first subset of the redundancy versions of the transport block corresponding to a first subset of the redundancy version sequence; and

transmit or receive a second transmission that includes a second subset of the redundancy versions of the transport block corresponding to a second subset of the redundancy version sequence.

41. An apparatus for wireless communication, comprising:

a processor;

memory in electronic communication with the processor; and

instructions stored in the memory and executable by the processor to cause the apparatus to:

transmit downlink control information corresponding to a transmission of

a transport block over a plurality of consecutive transmission time intervals (TTIs);

identify a redundancy version sequence for the transport block; and

transmit or receive each redundancy version of a plurality of redundancy versions and a repetition of each redundancy version of the plurality of redundancy versions in adjacent TTIs of the plurality of consecutive TTIs based at least in part on the redundancy version sequence.

42. The apparatus of claim 41, wherein the instructions are further executable by the processor to cause the apparatus to:

transmit an indication of the redundancy version sequence.

43. The apparatus of claim 42, wherein the indication identifies a starting redundancy version in the redundancy version sequence.

44. The apparatus of claim 43, wherein the indication is in a redundancy version field of the downlink control information, and wherein the starting redundancy version in the redundancy version sequence is of a beginning TTI of the plurality of consecutive TTIs.

45. The apparatus of claim 44, wherein subsequent redundancy versions occurring after the starting redundancy version in the redundancy version sequence are redundancy version two, redundancy version three, and redundancy version one.

46. The apparatus of claim 42, wherein the indication is transmitted in the downlink control information.

47. The apparatus of claim 42, wherein the indication is transmitted in radio resource control signaling.

48. The apparatus of claim 41, wherein the downlink control information schedules the transmission of the transport block over the plurality of consecutive TTIs.