~~WHAT IS CLAIMED IS:~~

CLAIMS

1. A method of wireless communication performed by a user equipment (UE), comprising:

determining a set of physical uplink control channel (PUCCH) resources to be used to transmit a channel state information (CSI) payload based at least in part on a first value of a rank indicator that is independent of a second value of the rank indicator used to construct the CSI payload, the rank indicator corresponding to a downlink channel quality determined by the UE; and

transmitting the CSI payload, to a base station (BS), using one or more resources from the set of PUCCH resources.

2. The method of claim 1, wherein the first value of the rank indicator is predetermined according to a specification associated with a network of the UE.

3. The method of claim 1, wherein the first value of the rank indicator is different from the second value of the rank indicator.

4. The method of claim 1, wherein, regardless of a size of the CSI payload, the first value of the rank indicator corresponds to a maximum size of the CSI payload or a minimum size of the CSI payload.

5. The method of claim 1, wherein the first value of the rank indicator is representative of a minimum size of the CSI payload.

6. The method of claim 1, wherein the CSI payload includes a CSI-part1 payload and a CSI-part2 payload.

7. The method of claim 6, wherein the UE is configured to determine that a size of the CSI payload exceeds a capacity of the set of PUCCH resources and is configured to drop one or more blocks of the CSI-part2 payload based at least in part on determining that the size of the CSI payload exceeds the capacity of the set of PUCCH resources.

8. The method of claim 6, wherein the UE is configured to determine that a size of the CSI payload is less than a capacity of the set of PUCCH resources and is configured to copy one or more blocks of the CSI-part2 payload into the CSI payload based at least in part on determining that the size of the CSI payload is less than the capacity of the set of PUCCH resources.

9. The method of claim 1, wherein, when one or more scheduling request occasions are to be transmitted during transmission of the CSI payload, a portion of the CSI payload includes a scheduling request.

10. The method of claim 9, wherein a size of the scheduling request is based at least in part on a number of the scheduling request occasions that overlap the CSI payload.

11. The method of claim 9, wherein the portion of the CSI payloads that includes the scheduling request is one bit.

12. The method of claim 9, wherein the portion of the CSI payloads that includes the scheduling request is a number of bits that corresponds to a number of the one or more scheduling request occasions.

13. The method of claim 1, wherein one or more bits of a scheduling request are multiplexed with the CSI payload within the one or more resources.

14. A user equipment (UE) for wireless communication, comprising:

a memory; ~~and~~

one or more processors operatively coupled to the memory~~,~~; and instructions stored in the memory and operable, when executed by the one or more processors ~~configured to~~:

cause the UE to: determine a set of physical uplink control channel (PUCCH) resources to be used to transmit a channel state information (CSI) payload based at least in part on a first value of a rank indicator that is independent of a second value of the rank indicator used to construct the CSI payload, the rank indicator corresponding to a downlink channel quality determined by the UE; and

transmit the CSI payload, to a base station (BS), using one or more resources from the set of PUCCH resources.

15. The UE of claim 14, wherein the first value of the rank indicator is different from the second value of the rank indicator.

16. The UE of claim 14, wherein, regardless of a size of the CSI payload, the first value of the rank indicator corresponds to a maximum size of the CSI payload or a minimum size of the CSI payload.

17. The UE of claim 14, wherein the first value of the rank indicator is representative of a minimum size of the CSI payload.

18. The UE of claim 14, wherein, when one or more scheduling request occasions are to be transmitted during transmission of the CSI payload, a portion of the CSI payload includes a scheduling request.

19. The UE of claim 18, wherein a size of the scheduling request is based at least in part on a number of the scheduling request occasions that overlap the CSI payload.

20. The UE of claim 14, wherein one or more bits of a scheduling request are multiplexed with the CSI payload within the one or more resources.

21. A non-transitory computer-readable medium storing one or more instructions for wireless communication, ~~the one or more instructions comprising:~~

~~one or more instructions~~ that, when executed by one or more processors of a user equipment (UE), cause the ~~one or more processors~~UE to:

determine a set of physical uplink control channel (PUCCH) resources to be used to transmit a channel state information (CSI) payload based at least in part on a first value of a rank indicator that is independent of a second value of the rank indicator used to

construct the CSI payload, the rank indicator corresponding to a downlink channel quality determined by the UE; and

transmit the CSI payload, to a base station (BS), using one or more resources from the set of PUCCH resources.

22. The non-transitory computer-readable medium of claim 21, wherein the first value of the rank indicator is different from the second value of the rank indicator.

23. The non-transitory computer-readable medium of claim 21, wherein, regardless of a size of the CSI payload, the first value of the rank indicator corresponds to a maximum size of the CSI payload or a minimum size of the CSI payload.

24. The non-transitory computer-readable medium of claim 21, wherein the first value of the rank indicator is representative of a minimum size of the CSI payload.

25. The non-transitory computer-readable medium of claim 21, wherein, when one or more scheduling request occasions are to be transmitted during transmission of the CSI payload, a portion of the CSI payload includes a scheduling request.

26. The non-transitory computer-readable medium of claim 25, wherein a size of the scheduling request is based at least in part on a number of the scheduling request occasions that overlap the CSI payload.

27. The non-transitory computer-readable medium of claim 21, wherein one or more bits of a scheduling request are multiplexed with the CSI payload within the one or more resources.

28. An apparatus for wireless communication, comprising:

means for determining a set of physical uplink control channel (PUCCH) resources to be used to transmit a channel state information (CSI) payload based at least in part on a first value of a rank indicator that is independent of a second value of the rank indicator used to construct the CSI payload, the rank indicator corresponding to a downlink channel quality determined by the UE; and

means for transmitting the CSI payload, to a base station (BS), using one or more resources from the set of PUCCH resources.

29. The apparatus of claim 28, wherein the first value of the rank indicator is different from the second value of the rank indicator.

30. The apparatus of claim 28, wherein, regardless of a size of the CSI payload, the first value of the rank indicator corresponds to a maximum size of the CSI payload or a minimum size of the CSI payload.

31. The apparatus of claim 28, wherein the first value of the rank indicator is representative of a minimum size of the CSI payload.

32. The apparatus of claim 28, wherein, when one or more scheduling request occasions are to be transmitted during transmission of the CSI payload, a portion of the CSI payload includes a scheduling request.

33. The apparatus of claim 32, wherein a size of the scheduling request is based at least in part on a number of the scheduling request occasions that overlap the CSI payload.

34. The apparatus of claim 28, wherein one or more bits of a scheduling request are multiplexed with the CSI payload within the one or more resources.