DESCRIPTION

Title of Invention

TRANSMISSION DEVICE, RECEPTION DEVICE, TRANSMISSION METHOD, AND RECEPTION METHOD

Technical Field

[0001] The present disclosure relates to a transmission apparatus, a reception apparatus, a transmission method, and a reception method.

Background Art

[0002] With regard to the standardization of 5G Mobile Communication Systems (5G), new radio access technologies (e.g., called "New Radio (NR)") that are not necessarily backward compatible with Long Term Evolution (LTE) or LTE-Advanced have been discussed in 3rd Generation Partnership Project (3GPP).

Citation List

Non-Patent Literature

[0003]

NPL 1

3GPP TS 38.214 V15.6.0, "NR; Physical layer procedures for data (Release 15)," 2019-06

Summary

[0004] However, there is scope for further study on a method for improving the reliability of a transmission channel in the new radio access technologies.

[0005] According to an aspect, there is a transmission apparatus, comprising:

control circuitry, which, in operation, determines a transmission size of a first channel

in one of a first time section and a second time section based on a time resource amount used for determination of the transmission size of the first channel for an other of the first time section and the second time section, the first time section being a time section in which the first channel and a second channel are arranged, the second time section being a time section in which the first channel is arranged; and

transmission circuitry, which, in operation, performs transmission processing on the first channel in the first time section and the second time section based on the transmission size determined. According to an aspect, there is a reception apparatus, comprising:

control circuitry, which, in operation, determines a transmission size of a first channel in one of a first time section and a second time section based on a time resource amount used for determination of the transmission size of the first channel for an other of the first time section and the second time section, the first time section being a time section in which the first channel and a second channel are arranged, the second time section being a time section in which the first channel is arranged; and

reception circuitry, which, in operation, performs reception processing on the first channel in the first time section and the second time section based on the transmission size determined. According to an aspect,there is a transmission method, comprising steps performed by a transmission apparatus of:

determining a transmission size of a first channel in one of a first time section and a second time section based on a time resource amount used for determination of the transmission size of the first channel for an other of the first time section and the second time

section, the first time section being a time section in which the first channel and a second channel are arranged, the second time section being a time section in which the first channel is arranged; and

performing transmission processing on the first channel in the first time section and the second time section based on the transmission size determined. According to an aspect, there is a reception method, comprising steps performed by a reception apparatus of:

determining a transmission size of a first channel in one of a first time section and a second time section based on a time resource amount used for determination of the transmission size of the first channel for an other of the first time section and the second time section, the first time section being a time section in which the first channel and a second channel are arranged, the second time section being a time section in which the first channel is arranged; and

performing reception processing on the first channel in the first time section and the second time section based on the transmission size determined. According to an aspect, there is an integrated circuit of a transmission apparatus comprising:

decision circuitry, which, in operation, controls determining a transmission size of a first channel in one of a first time section and a second time section based on a time resource amount used for determination of the transmission size of the first channel for an other of the first time section and the second time section, the first time section being a time section in which the first channel and a second channel are arranged, the second time section being a time section in which the first channel is arranged; and

transmission circuitry, which, in operation, controls performing transmission processing on the first channel in the first time section and the second time section based on the transmission size determined. One non-limiting and exemplary embodiment facilitates providing a transmission apparatus, a reception apparatus, a transmission method, and a reception method capable of