Patent Literature

[0005]

Patent Literature 1:	JP 2004-194288A
Patent Literature 2:	JP 2009-55228A

Disclosure of Invention

Technical Problem

[0006]

However, technical fields related to IDMA require further performance improvement. Embodiments of the present invention disclose a novel and improved wireless communication device, wireless communication method and program capable of contributing to improvement of wireless communication technology related to IDMA.

Solution to Problem

[0007]

According to a first aspect, there is provided a wireless communication device including: a wireless communication unit that performs wireless communication using interleave division multiple access (IDMA) with another wireless communication device; and a controller that controls an interleave length in an interleave process for IDMA by the wireless communication unit.

[0008]

According to a second aspect, there is provided a wireless communication device including: a wireless communication unit that performs wireless communication using IDMA with another wireless communication device; and a controller that controls the wireless communication unit to perform a deinterleave process depending on an interleave length used for an interleave process for IDMA by the other wireless communication device.

[0009]

According to a third aspect, there is provided a wireless communication method including: performing wireless communication using IDMA

with another wireless communication device; and controlling an interleave length in an interleave process for IDMA through a processor.

[0010]

According to a fourth aspect, there is provided a wireless communication method including: performing wireless communication using IDMA with another wireless communication device; and controlling a deinterleave process depending on an interleave length used for an interleave process for IDMA by the other wireless communication device to be performed through a processor.

[0011]

According to a fifth aspect, there is provided a program for causing a computer to function as: a wireless communication unit that performs wireless communication using IDMA with another wireless communication device; and a controller that controls an interleave length in an interleave process for IDMA by the wireless communication unit.

[0012]

According to a sixth aspect, there is provided a program for causing a computer to function as: a wireless communication unit that performs wireless communication using IDMA with another wireless communication device; and a controller that controls the wireless communication unit to perform a deinterleave process depending on an interleave length used for an interleave process for IDMA by the other wireless communication device.

Advantageous Effects of Invention

[0013]

According to embodiments of the present invention described above, it is possible to contribute to improvement of wireless communication technology related to IDMA. Note that the effects described above are not necessarily limitative. With or in the place of the above effects, there may be achieved any one of the effects described in this specification or other effects that may be grasped from this specification.

Brief Description of Drawings

controlling wireless communication using IDMA to be performed when a transmission sequence is a retransmitted sequence.

Claim 18

A wireless communication method comprising:

performing wireless communication using IDMA with another wireless communication device; and

controlling a deinterleave process depending on an interleave length used for an interleave process for IDMA by the other wireless communication device to be performed through a processor.

Claim 19

A program for causing a computer to function as:

a wireless communication unit that performs wireless communication using IDMA with another wireless communication device; and

a controller that controls an interleave length in an interleave process for IDMA by the wireless communication unit.

Claim 20

A program for causing a computer to function as:

a wireless communication unit that performs wireless communication using IDMA with another wireless communication device; and

a controller that controls the wireless communication unit to perform a deinterleave process depending on an interleave length used for an interleave process for IDMA by the other wireless communication device.