Non-Patent Document 1: Benjamin Bross, Woo-Jin Han, Jens-Rainer Ohm, Gary J. Sullivan, Thomas Wiegand, "High efficiency video coding (HEVC) text specification draft 7", JCTVC-I1003_d4, 2012.4.27-5.7

SUMMARY OF THE INVENTION

PROBLEMS TO BE SOLVED BY THE INVENTION

[0019]

However, the amount of information relating to the reference image specifying information such as the RPS is not sufficiently reduced.

[0020]

Embodiments of the present invention enable reduction of the amount of information relating to the information that specifies a reference image.

SOLUTIONS TO PROBLEMS

[0020a]

According to a first aspect of the present invention, there is provided an information processing apparatus comprising: circuitry configured to: determine whether a current picture is an initial picture in a group of pictures or not, set reference information indicating whether reference picture specification information for a preceding picture that precedes the current picture is to be used as the reference picture specification information for the current picture, according to whether the current picture is the initial picture in the group of pictures or not, wherein the reference picture specification information being information specifying a reference picture used to generate a prediction picture, and encode the reference information.

[0020b]

According to a second aspect of the present invention, there is provided an information processing method comprising: determining whether a current picture is an initial picture in a group of pictures or not, setting reference information indicating whether reference picture specification information for a preceding picture that precedes the current picture is to be used as the reference picture specification information for the current picture, according to whether the current picture is the initial picture in the group of pictures or not, wherein the reference picture specification information being information specifying a reference picture used to generate a prediction picture, and encoding the reference information.

[0021]

Disclosed herein is an encoding device including: a predicted image generation unit configured to generate a predicted image using a reference image; and a transmission unit configured to transmit reference information representing whether reference image specifying information specifying the reference image of a prior image that is an image prior to a current coding image in coding order is used as the reference image specifying information of the current coding image in a case where the current coding image is an image other than a first image of a GOP (Group of Picture).

[0022]

Disclosed herein is an encoding method corresponding to the above disclosed encoding device.

[0023]

According to the above disclosure, a predicted image is generated using a reference image; and reference information representing whether reference image specifying information specifying the reference image of a prior image that is an image prior to a current coding image in coding order is used as the reference image specifying information of the current coding image is transmitted in a case where the current coding image is an image other than a first image of a GOP (Group of Picture).

[0024]

In addition, there is disclosed an encoding device according to the above disclosure realized by causing a computer to execute a program.

[0025]

Furthermore, in order to realize the above disclosed encoding device, the program executed by the computer may be provided by being transmitted through a transmission medium or being recorded on a recording medium.

EFFECTS OF THE INVENTION

[0026]

According to embodiments of the present invention, the amount of information relating to information that specifies a reference image can be reduced.

BRIEF DESCRIPTION OF DRAWINGS