DESCRIPTION

Title of the Invention

~~Transmission Device, Receiving Device, Transmission Method, Receiving Method and Transmission System~~

Technical Field

[0001]

The present invention relates to a transmission device, a receiving device, a transmission method, a receiving method, and a transmission system, and in particular relates to technology for delivering video corresponding to an arbitrary viewing region, that has been designated at the receiving device side, from the transmission device to the receiving device, and technology for generating an image for display from the delivered video.

Background Art

[0002]

In recent years, making video high definition has advanced with the development of digitalization technology. Also, with the development of moving picture-encoding technologies such as MPEG (moving picture experts group)-2 or MPEG-4 and network communication technology, it has become possible to transmit these high-definition images to client terminals such as mobile telephones.

[0003]

When transmitting high definition video to a client terminal via a network, it is necessary to generate a video encoded bit stream having a bit rate appropriate to the transmission band of the network. A bit stream means an information sequence having compressed information space (compressed signal space).

[0004]

Generation of a video encoded bit stream can be carried out by reducing a high definition original video to a video size that is appropriate to the transmission band in non-compressed signal space, and carrying out video encoding on the reduced signal on a delivery server or the like.

[0005]

On the other hand, it is also possible to form a video encoded bit stream that has been encoded at the same resolution quality as the original video without reducing the high definition original image in non-compressed signal space, and convert as required to a low-resolution video encoded bit stream according to the transmission band. Conversion to a low-resolution video encoded bit stream is carried out using transcoding, which is a video encoding conversion technology.

[0006]

DESCRIPTION

Title of the Invention

TRANSMITTING APPARATUS, RECEIVING APPARATUS, TRANSMITTING METHOD, RECEIVING METHOD AND TRANSPORT SYSTEM

Technical Field

[0001]

The present invention relates to a transmission device, a receiving device, a transmission method, a receiving method, and a transmission system, and in particular relates to technology for delivering video corresponding to an arbitrary viewing region, that has been designated at the receiving device side, from the transmission device to the receiving device, and technology for generating an image for display from the delivered video.

Background Art

[0002]

In recent years, making video high definition has advanced with the development of digitalization technology. Also, with the development of moving picture-encoding technologies such as MPEG (moving picture experts group)-2 or MPEG-4 and network communication technology, it has become possible to transmit these high-definition images to client terminals such as mobile telephones.

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When transmitting high definition video to a client terminal via a network, it is necessary to generate a video encoded bit stream having a bit rate appropriate to the transmission band of the network. A bit stream means an information sequence having compressed information space (compressed signal space).

[0004]

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[0005]

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[0006]