

Claims

1. A method of encoding a multi-view image, the method comprising:
selecting pictures to be encoded using inter-view prediction and temporal prediction from multi-view image sequences based on temporal levels; and
encoding the selected pictures using inter-view prediction and temporal prediction, and encoding remaining pictures included in the multi-view image sequences using inter-view prediction or temporal prediction.
2. The method of claim 1, wherein the selecting pictures comprises selecting non-anchor pictures in temporal levels that are less than a given value from among all pictures included in the multi-view image sequences.
3. The method of claim 1, wherein the selecting pictures comprises selecting the pictures to be encoded using inter-view prediction and temporal prediction for each view of the multi-view image sequences based on the temporal levels.
4. The method of claim 1, wherein the encoding the selected pictures comprises encoding information about the selected pictures.
5. The method of claim 4, wherein the encoding the selected pictures comprises a supplemental enhancement information (SEI) message or encoding a sequence parameter comprising the information.
6. A computer-readable recording medium having recorded thereon a program for executing the method of any one of claims 1-5.

Claims

1. A method of encoding a multi-view image, the method comprising:

obtaining a picture in one view image sequence to be encoded by using inter-view prediction from multi-view image sequences;

determining whether the obtained picture in one view image sequence is a reference picture referred to by others in another view image sequence for inter-view prediction to generate a determination result; and

encoding the obtained picture by using inter-view prediction based on the determination result and an information related to the determination result,

wherein the information indicates whether the obtained picture is a reference picture referred to by others in another view image sequence for inter-view prediction and included in a network abstraction layer (NAL) unit header, and

wherein a picture which is a reference picture referred to by others in another view image sequence for inter-view prediction is included in a reference picture list and a picture which is not a reference picture referred to by others in another view image sequence for inter-view prediction is not included in the reference picture list.

2. The method of claim 1, wherein the encoding the obtained picture comprises a supplemental enhancement information (SEI) message or encoding a sequence parameter comprising the information.

3. A non-transitory computer-readable recording medium having recorded thereon a program for executing a method of encoding a multi-view image, the method comprising:

obtaining a picture in one view image sequence to be encoded by using inter-view prediction from multi-view image sequences;

determining whether the obtained picture in one view image sequence is a reference picture referred to by others in another view image sequence for inter-view prediction to generate a determination result; and

encoding the obtained picture by using inter-view prediction based on the determination result and an information related to the determination result,

wherein the information indicates whether the obtained picture is a reference picture referred to by others in another view image sequence for inter-view prediction and included in a network abstraction layer (NAL) unit header, and

wherein a picture which is a reference picture referred to by others in another view image sequence for inter-view prediction is included in a reference picture list and a picture which is not a reference picture referred to by others in another view image sequence for inter-view prediction is not included in the reference picture list.

4. The non-transitory computer-readable recording medium according to claim 3, wherein the encoding the obtained picture comprises a supplemental enhancement information (SEI) message or encoding a sequence parameter comprising the information.