

Claims

1. An image decoding device comprising:

a variable length decoding means for performing a variable length decoding process on an coded bitstream to obtain a predicted signal generating parameter and a

5 compressed difference image;

a filtering means for performing a filtering process on a decoded image obtained by adding a predicted image generated using said predicted signal generating parameter to a decoded difference image obtained by decompressing said compressed difference image;

10 wherein said filtering means determines a class for each pixel comprising said decoded image, to perform a filtering process on said decoded image using a filter corresponding to a determined class,

wherein said variable length decoding means performs a variable length decoding process on information which specifies for each of plurality of blocks comprising said
15 decoded image whether said filtering process is to be performed or not.

2. An image decoding method comprising:

a variable length decoding process step for performing a variable length decoding process on a coded bitstream to obtain a predicted signal generating parameter and a
20 compressed difference image;

a filtering process step for performing a filtering process on a decoded image obtained by adding a predicted image generated using said predicted signal generating parameter to a decoded difference image obtained by decompressing said compressed difference image;

25 wherein said filtering process step determines a class for each pixel comprising said decoded image, to perform a filtering process on said decoded image using a filter corresponding to a determined class,

wherein said variable length decoding process step performs a variable length decoding process on information which specifies for each of plurality of blocks
30 comprising said decoded image whether said filtering process is to be performed or

not.

3. An image encoding device comprising:

a filtering means for performing a filtering process on a decoded image obtained by
 5 adding a decompressed difference image generated by decompressing a compressed
 difference image to a predicted image;

an variable length encoding means for performing a variable length encoding
 process on a predicted signal generating parameter and said compressed difference
 image;

10 wherein said filtering means determines a class for each pixel comprising said
 decoded image, to perform a filtering process using a filter corresponding to a
 determined class;

wherein said variable length encoding means performs said variable length encoding
 process on information which specifies for each of plurality of blocks comprising said
 15 decoded image whether said filtering process is to be performed or not.

4. An image encoding method comprising:

a filtering process step for performing a filtering process on a decoded image
 obtained by adding a decompressed difference image generated by decompressing a
 20 compressed difference image to a predicted image;

an variable length encoding process step for performing a variable length encoding
 process on a predicted signal generating parameter and said compressed difference
 image;

25 wherein said filtering process determines a class for each pixel comprising said
 decoded image, to perform a filtering process by using a filter corresponding to a
 determined class;

wherein said variable length encoding process step performs said variable length
 encoding process on information which specifies for each of plurality of blocks
 comprising said decoded image whether said filtering process is to be performed or
 30 not.