

ABSTRACT

An intra-prediction apparatus for extending a set of predetermined directional intra-prediction modes

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The invention relates to an intra-prediction apparatus (100) for extending a set of predetermined directional intra-prediction modes of a rectangular video coding block. The intra-prediction apparatus (100) comprises an aspect ratio determining unit (101) configured to determine an aspect ratio of the rectangular video coding block, a complementary angle range determining unit (103) configured to determine a complementary angle range upon the basis of the aspect ratio, a directional intra-prediction mode extending unit (105) configured to select a complementary direction within the complementary directional range, and to add an extension directional intra-prediction mode being associated with the complementary direction to the set of predetermined directional intra-prediction modes, and an intra-prediction unit (107) configured to intra-predict pixel values of pixels of the rectangular video coding block on the basis of the extension directional intra-prediction mode.

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(Fig. 1)