

Title (en)

HIERARCHICAL VIDEO ENCODING/DECODING METHOD FOR COMPLETE SPATIAL SCALABILITY AND APPARATUS THEREOF

Title (de)

HIERARCHISCHES VIDEOCODIERUNGS-/DECODIERUNGSVERFAHREN FÜR VOLLSTÄNDIGE RÄUMLICHE SKALIERBARKEIT UND VORRICHTUNG DAFÜR

Title (fr)

PROCEDE HIERARCHIQUE DE CODAGE/DECODAGE VIDEO POUR UNE VARIABILITE D'ECHELLE COMPLETE ET APPAREIL CORRESPONDANT

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Application

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Abstract (en)

[origin: WO2006112620A1] Provided is a hierarchical video encoding/decoding method for complete spatial scalability and apparatus thereof . The apparatus for encoding a video image including: an overlapped region (OR) detector for receiving coding region information about a plurality of regions of interest (ROI) in the video image to encode and detecting overlapped regions (OR) in the ROI regions; a region arranger for arranging the video image, the regions of interest and the detected overlapped regions into a plurality of layers according to a resolution; and a region encoder for encoding the video image, the regions of interest and the detected overlapped regions according to a resolution of a corresponding layer arranged at the region arranger. The coding region information may include information about locations of the regions of interest in the video image and a coding resolution of the regions of interest. A video encoding/decoding apparatus according to the present invention provides a complete scalability of a spatial domain by defining a region of interest (ROI) in a video image. Also, the video encoding/decoding apparatus according to the present invention provides an improved coding rate by encoding video image in consideration of spatial redundancy among a plurality of regions of interest.

IPC 8 full level

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