

TELEVISION BROADCAST SYSTEM FOR GENERATING AUGMENTED IMAGES

ABSTRACT

The invention relates to a television broadcast system comprising a number of television cameras (C1, C2); at least one production unit (12) which is configured to generate a series of production images from the camera images of the number of television cameras (C1, C2) and to issue said images as production signals (S3); a number of analysis modules (A1, A2) which are configured to analyse each individual camera image, to calculate camera-image metadata (M) and an associated camera-image hash value (H) for each camera image and to issue the camera-image metadata (M) and the camera-image hash value (H) for each camera image asynchronously; a synchronisation module (14) connected to the production unit (12) and the analysis modules (A1, A2) and configured to receive the production images from the production unit (12) as synchronously buffered images and to calculate, for each production image, an associated production image hash value (HR). The synchronisation module (14) is also configured to compare production image hash values (RH) and camera image hash values (H), to assign, on the basis of this comparison, the associated camera-image metadata (M_j) of a camera image as production-image metadata (MR) to a current production image (R_i), and to issue the production-image metadata (MR) as synchronously buffered images; a multiplication module (16) connected to the synchronisation module (14) and the production unit (12) and configured to receive the production-image metadata (MR) from the synchronisation module (14) as synchronously buffered images and to receive the production images from the production unit (12) as synchronously buffered images, the multiplication module also being configured: to compensate a time difference between a production image and the associated production-image metadata (MR); to change in the production image, on the basis of the production-image metadata (MR), at least one portion of the production image by means of an augmentation, thus producing an augmented production image; and to issue the augmented production image.

(Fig. 1)