Abstract

Performance Evaluation Process for video mosaic algorithms is developed on the basis of maximum information retrieval through closeness and residue between the original input images/actual frames and the estimated images/frames from mosaic image. This evaluation method can be applicable to image as well as video mosaicing methods. Estimation of original input images/video frames and maximum information retrieval in terms of closeness/residue are the major steps involved in it. Without specific design of standard database, this method evaluates the mosaics in reference with the information in original input images/frames through a unique and single valued metric. Problems in case of mosaicing in complex condition like nonlinear vertical distortions and geometrical distortions in image and video capturing are discussed. Performance results are tested and compared with different mosaic images from
different mosaic algorithms presented before.

References

Mosaic Evaluation: an Efficient and Robust Method based on Maximum Information Retrieval


Index Terms

Computer Science

Artificial Intelligence

Keywords

Mosaic evaluation  Image mosaic  Strip search.