Abstract

The proposed research paper shall analyze a method of image change detection based upon the Fractional Fourier transform (FrFT), which can provide results with good precision and better recall values obtained by optimizing its fractional order. The method is analyzed because, with extra degree of freedom provided by the Discrete Fractional Fourier Transform (DFrFT), we can get more accurate change regions as compared to other methods in the recent literature like Histogram based change detection or some fixed transformation technique like Discrete Cosine Transform (DCT). Among these three methods, change detection using DFrFT gives out improved results in terms of precision and recall parameters.

References

Image Change Detection by Means of Discrete Fractional Fourier Transform

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Computer Science
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