Abstract

In this paper, we propose a novel structure for rational sampling rate converter. The finite impulse response filter is used in between upsample and downsampler in order to avoid image spectra and aliasing effects respectively. Coefficient symmetry of the linear phase filter is used so that the number of required multiplication per output sample is reduced.

References


Index Terms

Computer Science

Signal Processing

Keywords

FIR filter, linear phase, multirate system, rational sampling rate conversion.