Rational Sampling Rate Converter using Coefficient Symmetry

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 129
Number 4

Year of Publication: 2015

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10.5120/ijca2015906795
{bibtex}2015906795.bib{/bibtex}

Abstract

In this paper, we propose an efficient structure for rational sampling rate converter. Finite impulse response filter is used in between upsampler and downsampler in order to avoid image spectra and aliasing effects respectively. Coefficient symmetry of the linear phase filter is used so that 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.