Abstract

There are many reasons to change the sample rate of a sampled data signal. Here we discuss the two basic operations in a multirate system i.e. decreasing (decimation) and (increasing) the sampling rate of a signal. Also the use of multirate filters at the interfaces of continuous & sampled data which results in a cost reduction of the analog signal conditioning components as well as improvement of signal quality.

Reference

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- Oppenheim & Wilsky, Signals & Systems, TMH.
- Multirate DSP, EEE 305, University of Newcastle upon Tyne.
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**Index Terms**

Computer Science  
Signal Processing

**Key words**

analog signal  
Multirate DSP