Aiming at importance of virtual instruments in the field of Digital Signal Processing, a digital IIR Filter system is developed using National Instruments (NI) data LabVIEW software package. All the types of IIR filters like Butterworth filters, Chebyshev filters, inverse Chebyshev filters, and Elliptic filters are designed to generate their magnitude response and filter coefficients. The LabVIEW software is used to develop virtual instrument (VI) that includes a front panel and a functional diagram. The VI reads the desired parameters of the filters entered by the user on the front panel and determines its magnitude response and filter coefficients.
Analysis of Digital IIR Filter with LabVIEW

- www.ni.com/training

Index Terms

Computer Science
Signal Processing

Key words

Digital IIR filter
LabVIEW
Virtual Instruments