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A very good example of complex signal processing is seen in digital systems that employ a front-end tuner. These systems fall into a category that can be loosely categorized as “ digital radio, ” in that an input wideband signal is tuned up or down in frequency and passed through a band pass or low pass filter to isolate some narrow band of interest.

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Digital signal processing is the use of digital processing, such as by computers or more specialized digital signal processors, to perform a wide variety of signal processing operations. The digital signals processed in this manner are a sequence of numbers that represent samples of a continuous variable in a domain such as time, space, or frequency. In digital electronics, a digital signal is represented as a pulse train, which is typically generated by the switching of a transistor. Digital si

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Scilab has been widely exploited for different applications in signal processing, statistical analysis, image processing, fluid dynamics simulations, numerical optimization, and modeling, simulation of explicit and implicit dynamical systems and symbolic manipulations.

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