DEFINITIONS

Digital Signal Processing

- It is concerned with the representation of the signals by a sequence of numbers or symbols and the processing of these signals. Digital signal processing and analog signal processing are subfields of signal processing. DSP includes subfields like: audio and speech signal processing, sonar and radar signal processing, sensor array processing, spectral estimation, statistical signal processing, digital image processing, signal processing for communications, biomedical signal processing, seismic data processing, etc. (http://en.wikipedia.org/wiki/Digital_signal_processing).

- A conversion of the analog signal from a CCD image sensor into a digital signal through an analog to digital converter. This enables many digital features such as backlight compensation or sensitivity up. (http://www.prosecuritywarehouse.com/techschool.html)

- Often performed by specialized electronics, DSP allows effects to be applied to audio and video that has been digitized. For example, echo could be added to an audio recording. (http://toolboxes.flexiblelearning.net.au/demosites/series4/410/shared_files/gloss/glossary_d.html)

BOOKS

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2nd Floor


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INTERNET RESOURCES

Multimedia/CD-Rom Station & Internet Workstation
2nd and 3rd Floor

Retrieved February 18, 2014 from http://www.signalprocessingsociety.org/

The IEEE Signal Processing Society is an international organization whose purpose is to: advance and disseminate state-of-the-art scientific information and resources; educate the signal processing community; and provide a venue for people to interact and exchange ideas.

European Association for Signal Processing (EURASIP).
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The organization aims to "improve communication between groups and individuals that work within the multidisciplinary, fast growing field of Signal Processing in Europe and elsewhere, and to exchange and disseminate information in the field all over the world." Furthermore, the association exists to further the efforts of researchers by providing a learned and professional platform for dissemination and discussion of all aspects of signal processing.

Signal Processing Toolbox 6.12 from Math Works.

Signal Processing Toolbox™ is a collection of industry-standard algorithms for analog and digital signal processing (DSP). Signal Processing Toolbox software also provides graphical user interfaces for interactive design and analysis and command-line functions for advanced algorithm development.