Digital Signal Processing

Chapter 1 : Discrete Time Signals

Q. 1 With the help of block schematic diagram explain basic elements of digital signal processing.

Ans. :

Basic elements of digital signal processing :

Fig. 1.1 shows that the basic elements of digital signal processing system.

Analog input x(t) — [Anti – Aliasing filter (LPF)] — [Sample and hold circuit (S/H circuit)] — [ADC] — [Digital signal processor] — [DAC] — [Reconst-ruction filter] — Output

Fig. 1.1

The different blocks of this system are as follows :

1. Input signal :

It is the signal generated from some transducer or from some communication system. It may be biomedical signal like ECG or EEG. Generally input signal is analog in nature. It is denoted by x(t).

2. Anti-aliasing filter :

Anti aliasing filter is basically a low pass filter. It is used for the following purposes :

(a) It removes the high frequency noise contain in input signal.

(b) As the name indicates; it avoids aliasing effect. That means it is used to band limit the signal.

3. Sample and hold circuit :

This block takes the samples of input signal. It keeps the voltage level of input signal relatively constant. Sometimes amplifiers are required to bring the voltage level of input signal upto the required voltage level of ADC.

4. Analog to Digital Converter (ADC) :

This block is used to convert analog signal into digital form. This is required, because digital signal processor accepts the signal which is digital in nature.

5. Digital signal processor :

It processes input signal digitally. In a simple language processing of input signal means modifying the signal as per requirement. For this purpose DSP processors like ADSP 2100 or TMS 320 can be used.

6. Digital to Analog Converter (DAC) :

The output of digital signal processor is digital in nature. But the required final output is analog in nature. So to convert digital signal into analog signal DAC is used.

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clear learning objectives and concludes with exercises and multiple choice questions for self assessment Drawing from a diverse range of sources including research articles and books the references provided at the end of each chapter encourage further exploration Tailored for undergraduate and postgraduate students research scholars engineers and faculty specializing in image processing it assumes a foundational understanding of set theory matrix algebra probability and random variables   Digital Image Processing MCQs: Multiple Choice Questions and Answers (Quiz & Tests with Answer Keys) Arshad Iqbal,2016   *Digital Image Processing* A Baskar,Muthaiah Rajappa,Shriram K Vasudevan,T S Murugesh,2023-05-19 The book provides a mix of theoretical and practical perceptions of the related concepts pertaining to image processing The primary objectives are to offer an overview to the elementary concepts and practices appropriate to digital image processing as well as to provide theoretical exposition It starts with an expanded coverage of the fundamentals to provide a more comprehensive and cohesive coverage of the topics including but not limited to Applications and tools for image processing and fundamentals with several implementation examples Concepts of image formation OpenCV installation with step by step screen shots Concepts behind intensity brightness and contrast color models Ways by which noises are created in an image and the possible remedial measures Edge detection image segmentation classification regression classification algorithms Importance of frequency domain in image processing field Relevant code snippets and the MATLAB codes and several interesting sets of simple programs in OpenCV and Python to aid learning and for complete understanding The video lectures for specific topics through YouTube enable easy inference for the readers to apply the learnt theory into practice The addition of contents at the end of each chapter such as quizzes and review questions fully prepare the readers for further study Graduate students post graduate students researchers and anyone in general interested in image processing computer vision machine learning domains etc can find this book an excellent starting point for information and an able ally   *Exercises in Oral Radiology and Interpretation - E-Book* Robert P. Langlais,2003-12-12 An effective study tool for mastering radiography this valuable question and answer book reinforces integral skills including film handling exposures and clinical technique Featuring more than 730 new images this fourth edition has been expanded to include a broader scope of material as well as more practice opportunities for answering questions and preparing for examinations New topics include the coverage of errors seen in radiographs intraoral and panoramic digital imaging and infection control radiation health A comprehensive review for national and state board examinations is also provided Radiographs are easy to read and unobscurred with corresponding line drawings for radiographs that use extensive labeling or arrows A comprehensive review for national and state board examinations consists of 475 new questions to help readers excel in these career critical tests A unique writing style and humorous interjections help engage individuals who are studying this difficult topic Content helps readers learn to recognize and correct errors seen in panoramic radiographs as well as errors made in film handling and processing The basic concepts of panoramic digital imaging and intraoral digital imaging are presented to provide a review

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