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Sonar Signal Processing I - Pennsylvania State University

• Digital signal processing concepts and techniques • Adaptive signal processing or beamforming • Post-detection signal processing (eg classification, tracking) • Random variable theory, stochastic processes • Sonar implementation concepts (covered in a separate ...

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Time-Frequency Toolbox

some knowledge on signal processing theory In particular, the concepts of Fourier transform, Shannon sampling and stationarity are important to understand the following features The Time-Frequency Toolbox assumes that MATLAB v42c (or a later version) is present on your system, as well as the Signal Processing Toolbox v30 (or a later version)

Spatial Signal Processing (Beamforming)

• In beamforming, the angular (directional) spectrum of a signal is revealed by Fourier analysis of the way sound excites different parts of the set of transducers • Beamforming can be accomplished physically (shaping and moving a transducer), electrically (analog delay circuitry), or ...

ECE 4429A: Advanced Digital Signal Processing

Description: Digital Signal Processing (DSP) is at the heart of many applications in a wide array of fields: speech and audio processing, system monitoring and fault detection, biomedical signal analysis, mobile and internet communications, radar and sonar, vibration measurement and

Statistical Signal Processing

Statistical signal processing algorithms work to extract the good despite the “efforts” of the bad This course covers the two basic approaches to statistical signal processing: estimation and detection In estimation, we want to determine a signal’s waveform or some signal aspect(s) Typically the parameter or signal we want is buried in

On Low Resolution Ultrasonic Image Processing for Target ...

On Low Resolution Ultrasonic Image Processing for Target Recognition Purposes - Ultrasound, Ultrasonic Image, Sonar, Signal Processing, Pattern Recognition 1 Introduction The ultrasounds, in general, and ultrasound images, transferred to PC for offline processing in MATLAB, at a ...

ADAPTIVE BEAMFORMING USING LMS ALGORITHM

transmitted signal in order to separate it from the other users in the surrounding environment This paper focus on the implementation of Least Mean Square(LMS) algorithm which is a type of non blind algorithm Fig-1: Adaptive Beamforming 2 BEAMFORMING In beamforming each ...

Signals and Systems: Introduction

What is a signal? Signals may describe a wide variety of physical phenomena The information in a signal is contained in a pattern of variations of some form A signal is represented mathematically as a function of one or more independent variables x $y = f(x)$ Independent t able variable t v A signal, where voltage (v) varies with time (t)

Digital Signal Processing - tutorialspoint.com

Digital Signal Processing is an important branch of Electronics and Telecommunication engineering that deals with the improvisation of reliability and accuracy of the digital communication by employing multiple techniques This tutorial explains the basic concepts of digital signal processing in a simple and easy-to-understand manner Audience

BASIC OPERATIONS IN IMAGE PROCESSING USING MATLAB

Image processing using Matlab has wide range of applications such as space exploration, image transmission and storage for business applications, medical processing, radar, sonar and acoustic image processing, robotics and automated industrial and NSR is the noise-power-to-signal-power ratio Figure 6:- A blurred and restored image III

Digital Signal Processing - University of Cambridge

Digital signal processing Analog/digital and digital/analog converter, CPU, DSP, ASIC, FPGA Advantages: → noise is easy to control after initial quantization → highly linear (within limited dynamic range) → complex algorithms fit into a single chip → flexibility, parameters can easily be varied in software → digital processing is insensitive to component tolerances, aging,

Introduction to matched filters - CREWES

The basic concepts of matched filters are presented with figures illustrating the applications in one and two dimensions INTRODUCTION 1D model for matched filtering Matched filtering is a process for detecting a known piece of signal or wavelet that is embedded in noise The filter will maximize the signal to noise ratio (SNR) of the signal

CommTech Tutorials Series

Digital signal processing improves resolution by eliminating or attenuating beam components that would otherwise degrade the resolution All transmitted sound pulses produce side lobes which contain energy that stretches the pulse In standard side scan sonar and sub-bottom profiling systems, the resolution is lost to stretching by the side lobes

ECE 9031: Advanced Digital Signal Processing

ECE 9031: Advanced Digital Signal Processing Course Outline 2017-18 Description: Digital Signal Processing The laboratory portion of this course will consist of MATLAB-based experiments All classes, laboratories, and tutorials are mandatory unless otherwise stated Any student who, in the opinion of the instructor, is absent too

Tutorial: Introduction to Interpreting Digital RADAR Images

for proper processing and interpretation This booklet introduces the concepts of only tutorials or plates) tenna and each target modifies the returning signal in such a way that the data from the various pulses can be resolved to place each feature in its correct position with good azimuth resolution

Four Step Process With A Fraction - logisticsweek.com

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Image compression using wavelets and JPEG2000: tutorial

Image compression using wavelets and JPEG2000: a tutorial by S Lawson and J Zhu The demand for higher and higher quality images transmitted quickly over the Internet has led to a strong need to develop better algorithms for the filtering and coding of such images

Radar Fundamentals - Naval Postgraduate School

Signal-to-Noise Ratio (SNR) • Considering the presence of noise, the important parameter for detection is the signal-to-noise ratio (SNR) • Factors have been added for processing gain G_p and loss L • Most radars are designed so that • At this point we will consider only two noise sources: 1 background noise collected by the antenna (TA)

Housekeeping Training Manual Sudhir Andrews

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