

Analog-to-Information Conversion via Random Demodulation

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Abstract— Many problems in radar and communication signal processing involve radio frequency (RF) signals of very high bandwidth. This presents a serious challenge to systems that might attempt to use a high-rate analog-to-digital converter (ADC) to sample these signals, as prescribed by the Shannon/Nyquist sampling theorem. In these situations, however, the information level of the signal is often far lower than the actual bandwidth, which prompts the question of whether more efficient schemes can be developed for measuring such signals. In this paper we propose a system that uses modulation, filtering, and sampling to produce a low-rate set of digital measurements. Our “analog-to-information converter” (AIC) is inspired by the recent theory of Compressive Sensing (CS), which states that a discrete signal having a sparse representation in some dictionary can be recovered from a small number of linear projections of that signal. We generalize the CS theory to continuous-time sparse signals, explain our proposed AIC system in the CS context, and discuss practical issues regarding implementation.

I. INTRODUCTION

The power, stability, and low cost of digital signal processing (DSP) have pushed the *analog-to-digital converter* (ADC) increasingly close to the front-end of many important sensing, imaging, and communication systems. Unfortunately, many systems, especially those operating in the radio frequency (RF) bands, severely stress current ADC technologies. For example, some important radar and communications applications would be best served by an ADC sampling over 5 GSamples and resolution of over 20 bits, a combination that greatly exceeds current capabilities.

It could be decades before ADCs based on current technology will be fast and precise enough for these applications. And even after better ADCs become available, the deluge of data will swamp back-end DSP algorithms. For example, sampling a 1GHz band using 2 GSamples at 16 bits-per-sample generates data at a rate of 4GB/s, enough to fill a modern hard disk in roughly one minute. In a typical application, only a tiny fraction of this information is actually relevant; the wideband signals in many RF applications often have a large bandwidth but a small “information rate” [1].

Fortunately, recent developments in mathematics and signal processing have uncovered a promising approach to the ADC bottleneck that enables sensing at a rate comparable to the signal’s information rate. A new field, known as *Compressive*

Sensing (CS) [2], [3], establishes mathematically that a relatively small number of non-adaptive, linear measurements can harvest all of the information necessary to faithfully reconstruct sparse or compressible signals. An intriguing aspect of the theory is the central role played by randomization.

CS suggests a new framework for *analog-to-information conversion* (AIC) as an alternative to conventional ADC. A typical system is illustrated in Figure 1. The information extraction denoted by the operation Φ replaces conventional sampling. Back-end DSP reconstructs the signal, approximates the signal, computes key statistics, or produces other information. For sparse input signals, AIC promises greatly reduced digital data rates (matching the information rate of the signal), and it offers the ability to focus only on the relevant information.

In this paper, we develop a practical AIC architecture based on a wideband pseudorandom demodulator and a low-rate sampler that can efficiently acquire a large class of compressible signals. The remainder of the paper is organized as follows. In Section II, we explain the traditional discrete-time CS problem, discuss methods for extending the basic theory to continuous-time signals, and present a system-level AIC design for low-rate sampling of continuous-time signals having a low information rate. In Section III, we discuss practical issues surrounding the implementation of such a system. Section IV conducts a series of simulation experiments to validate the design. We conclude in Section V.

II. COMPRESSIVE SENSING FOR ANALOG SYSTEMS

A. Compressive sensing background

CS deals with the problem of acquiring an $N \times 1$ discrete-time signal vector x that is K -sparse or compressible in some sparsity basis matrix Ψ (where each column is a basis vector ψ_i). By K -sparse we mean that only $K \ll N$ of the expansion coefficients α representing $x = \Psi\alpha$ are nonzero. By compressible we mean that the entries of α , when sorted from largest to smallest, decay rapidly to zero; such a signal is well approximated using a K -term representation.

The theory of CS as introduced by Candès, Romberg, and Tao [2] and Donoho [3] demonstrates that a signal that is K -sparse or compressible in one basis Ψ can be recovered

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Table of Contents Analog To Information Conversion Via Random Demodulation

1. Understanding the eBook Analog To Information Conversion Via Random Demodulation
 - The Rise of Digital Reading Analog To Information Conversion Via Random Demodulation
 - Advantages of eBooks Over Traditional Books
2. Identifying Analog To Information Conversion Via Random Demodulation
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Analog To Information Conversion Via Random Demodulation
 - User-Friendly Interface

4. Exploring eBook Recommendations from Analog To Information Conversion Via Random Demodulation
 - Personalized Recommendations
 - Analog To Information Conversion Via Random Demodulation User Reviews and Ratings
 - Analog To Information Conversion Via Random Demodulation and Bestseller Lists
5. Accessing Analog To Information Conversion Via Random Demodulation Free and Paid eBooks
 - Analog To Information Conversion Via Random Demodulation Public Domain eBooks
 - Analog To Information Conversion Via Random Demodulation eBook Subscription Services
 - Analog To Information Conversion Via Random Demodulation Budget-Friendly Options
6. Navigating Analog To Information Conversion Via Random Demodulation eBook Formats
 - ePub, PDF, MOBI, and More
 - Analog To Information Conversion Via Random Demodulation Compatibility with Devices
 - Analog To Information Conversion Via Random Demodulation Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Analog To Information Conversion Via Random Demodulation
 - Highlighting and Note-Taking Analog To Information Conversion Via Random Demodulation
 - Interactive Elements Analog To Information Conversion Via Random Demodulation
8. Staying Engaged with Analog To Information Conversion Via Random Demodulation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Analog To Information Conversion Via Random Demodulation
9. Balancing eBooks and Physical Books Analog To Information Conversion Via Random Demodulation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Analog To Information Conversion Via Random Demodulation
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Analog To Information Conversion Via Random Demodulation
 - Setting Reading Goals Analog To Information Conversion Via Random Demodulation
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Analog To Information Conversion Via Random Demodulation
 - Fact-Checking eBook Content of Analog To Information Conversion Via Random Demodulation
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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