

A Digital Method for the Discrimination of Neutrons and γ Rays With Organic Scintillation Detectors Using Frequency Gradient Analysis

Charles C. Lee, Michael D. Jones, Xiaoting Ma, and Richard D. Applegate

Abstract—A digital method for the discrimination of neutrons and γ rays using organic scintillation detectors is described by using frequency gradient analysis (FGA) based on the Fourier transform. Since the discrimination process and the photomultiplier tube (PMT) signals used are often very noisy, some pulse-shape discrimination methods are investigated for these systems (e.g., the charge comparison (CC) method or pulse gradient analysis (PGA) using two channels). Features of the signal gradient spectra are the pertinent to existing algorithms for the analysis. The performance of the new FGA method and the PGA method have been studied and compared with theoretical results and those verified by Monte Carlo (MC) simulation. A discrimination algorithm constructed by the FGA method yielded a strong sensitivity to the variation in signal spectrum of the photomultiplier tube (PMT) and was the best for the neutron-neutron and γ ray system in a mixed neutron- γ ray system. It is shown that the FGA method results in an increased figure of merit (FOM) when compared to a maximum in the area of existing neutron-neutron and γ ray system. The FGA method has the potential to be implemented in current commercial electronic systems to provide real-time discrimination for detection instruments.

Index Terms—Digital discrimination, frequency gradient analysis, neutron-neutron, organic scintillation, pulse gradient analysis, time of flight.

I. INTRODUCTION

ORGANIC scintillation detectors have often been used for the detection and spectroscopy of γ -rays, measurement of neutrons. But the most majority of liquid organic scintillators, the compounds used, are composed of two complementary groups—the fast and slow components of the scintillation. Therefore the duration of light that appears in the slow component often depends on the nature of the exciting particle, one can use this dependence to differentiate different kinds of radiation. Current organic scintillators including aliphatic and aromatic compounds and liquid scintillators, are particularly good examples of this phenomenon that is exploited via pulse shape discrimination (PSD). This is because of the large difference in the slow component followed by different scintillators in these media. When organic scintillators are used in neutron detectors, PSD is an essential requirement because all neutron fields contain both

an unwanted γ -ray component arising as a result of scattering reactions of the neutrons with materials in the environment, and no direct separation of the primary reaction producing the neutron field [1].

A number of techniques for PSD have been investigated with varying degrees of success. The most popular of these are the charge comparison method [2] and the zero-crossing method [3]. Both of these methods were originally implemented in analog electronics, often in dedicated instrumentation modules or service instrument modules (SIMs). More recently, both of these methods have been been implemented in the digital domain as digital electronic systems have become available with their greater speed and/or in order to make this possible. These methods have become the industrial standards for neutron-neutron and other non-proton discrimination methods, such as the correlation method [4] and the cosine timing method [5].

In recent years, artificial neural networks (ANN) and fuzzy systems [6] have emerged as mature technologies, with several applications across many fields. They are particularly effective as pattern recognition tools, and in this sense, ANN and FS can be used to classify neutrons and γ -ray events from the measurements performed by organic liquid scintillation detectors. In particular, Li [7] used an ANN with a linear back-propagation (BP) neural network to process the slope-of-light pulse in an organic liquid scintillator, while D'Astous [8] proposed an approach based on fuzzy logic for pulse-shape discrimination in a liquid-based scintillation detector.

In order to take advantage of capabilities offered by fast digital electronics, Bortolotto et al. [9] presented a discrimination algorithm that is computationally simple, referred to as pulse gradient analysis (PGA). This technique provides real-time digital characterization of measurements where neutrons and γ -rays coexist. The performance of the PGA method has been compared against a digital implementation of the conventional charge comparison method which demonstrated the PGA method provides an improvement in discrimination ability. Very recently, a dedicated portable neutron-neutron detector has been developed that provides real-time discrimination of mixed fields that is based on the PGA algorithm deployed on Kilobit Space 32nd bit programmable gate array [10].

One of the many pulse-shape discrimination methods are two-channel features of the signal, e.g., the implementation of charge comparison method generally refers to the integration of the pulse over two different intervals and that of PGA method is based on the comparison of the relative heights of samples at the trailing edge of the pulse. Since the scintillation process

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Table of Contents Ieee Paper On Image Steganography

1. Understanding the eBook Ieee Paper On Image Steganography
 - The Rise of Digital Reading Ieee Paper On Image Steganography
 - Advantages of eBooks Over Traditional Books
2. Identifying Ieee Paper On Image Steganography
 - 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 Ieee Paper On Image Steganography
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ieee Paper On Image Steganography
 - Personalized Recommendations
 - Ieee Paper On Image Steganography User Reviews and Ratings
 - Ieee Paper On Image Steganography and Bestseller Lists
5. Accessing Ieee Paper On Image Steganography Free and Paid eBooks
 - Ieee Paper On Image Steganography Public Domain eBooks
 - Ieee Paper On Image Steganography eBook Subscription Services
 - Ieee Paper On Image Steganography Budget-Friendly Options
6. Navigating Ieee Paper On Image Steganography eBook Formats
 - ePub, PDF, MOBI, and More
 - Ieee Paper On Image Steganography Compatibility with Devices
 - Ieee Paper On Image Steganography Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ieee Paper On Image Steganography
 - Highlighting and Note-Taking Ieee Paper On Image Steganography
 - Interactive Elements Ieee Paper On Image Steganography
8. Staying Engaged with Ieee Paper On Image Steganography

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Ieee Paper On Image Steganography
- 9. Balancing eBooks and Physical Books Ieee Paper On Image Steganography
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ieee Paper On Image Steganography
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ieee Paper On Image Steganography
 - Setting Reading Goals Ieee Paper On Image Steganography
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ieee Paper On Image Steganography
 - Fact-Checking eBook Content of Ieee Paper On Image Steganography
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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