

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) simulations. A discrimination algorithm based on the FGA method related to using frequency-to-time conversion is given as an example of the photomultiplier tube (PMT) used and can be used for other detectors. Because only one channel is a signal gradient spectrum, it is shown that the FGA method results in an increased figure of merit (FOM) when compared to a method using the signal of existing two-channel systems and γ ray events. 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, 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. One of the most important of liquid organic scintillators, the compound with some mixture of two compressed drops—oil and glass components of the scintillator. Because the detection of light that appears in the detector component often depends on the nature of the scintillation process, one can use this dependence to differentiate different kinds of radiation. Fluorescence response scintillators including different mixtures of aromatic and liquid scintillators, are particularly good examples of this phenomenon that is exploited via pulse shape analysis systems (PSAS). This is because of the large differences in the decay components followed by different scintillators in these media. When organic scintillators are used in neutron detectors, PSAS is an essential component because all neutron fields contain both

an immediate γ -ray component arising as a result of scattering reactions of the neutrons with materials in the environment, and an almost instantaneous γ -ray component producing the neutron field [1].

A number of techniques for PSAS have been developed with varying degrees of success. The most popular of these are the charge comparison method [2] and the time-varying 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 own state-space analysis to make this possible. These methods have become the industrial standards for neutron systems with other new proposed discrimination methods, such as the correlation method [4] and the current timing method [5].

In recent years, artificial neural networks (ANN) and fuzzy systems [6] have emerged as system methodologies, with several applications across many fields. They are particularly effective in pattern recognition tasks, 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 shape-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 single-layer 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 detector has been developed that provides real-time discrimination of mixed fields that is based on the PGA algorithm deployed on Kilobit Space 97 field-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 relies upon 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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Digital Forensics and Watermarking Yun Qing Shi,Hyoung Joong Kim,Fernando Perez-Gonzalez,Feng Liu,2017-02-14 This book constitutes the revised post conference proceedings of the 15th International Workshop on Digital Forensics and Watermarking IWDW 2016 held in Beijing China in September 2016 The 45 papers presented in this volume were carefully reviewed and selected from 70 submissions The contributions are organized in topical sections on digital forensics visual cryptography reversible data hiding and steganography and steganalysis

High Performance Architecture and Grid Computing Archana Mantri,Suman Nandi,Gaurav Kumar,Sandeep Kumar,2011-07-05 This book constitutes the refereeds proceedings of the International Conference on High Performance Architecture and Grid Computing HPAGC 2011 held in Chandigarh India in July 2011 The 87 revised full papers presented were carefully reviewed and selected from 240 submissions The papers are organized in topical sections on grid and cloud computing high performance architecture information management and network security

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Image and Graphics Technologies and Applications Wang Yongtian, Wu Lifang, 2023-10-24 This book constitutes the refereed proceedings of the 18th Chinese Conference on Image and Graphics Technologies and Applications IGTA 2023 held in Beijing China during August 17 19 2023 The 35 full papers included in this book were carefully reviewed and selected from 129 submissions They were organized in topical sections as follows image processing and enhancement techniques machine vision and 3D reconstruction image video big data analysis and understanding computer graphics visualization and visual analysis virtual reality and human computer interaction and applications of image and graphics

Advanced Hybrid Information Processing Shuai Liu, Gelan Yang, 2019-05-12 This book constitutes the refereed proceedings of the Second EAI International Conference on Advanced Hybrid Information Processing ADHIP 2018 held in Yiyang China in October 2018 The 71 papers presented were selected from 228 submissions and focus on hybrid big data processing Since information processing has acted as an important research domain in science and technology today it is the right time to develop deeper and wider use of hybrid information processing especially information processing for big data There are more remaining issues waiting for solving such as classification and systemization of big data objective tracking and behavior understanding in big multimedia data encoding and compression of big data

System Innovation for a Global Economy Artde Donald Kin-Tak Lam, Stephen D. Prior, Siu-Tsen Shen, Sheng-Joue Young, Liang-Wen Ji, 2025-10-10 System Innovation for a Global Economy contains the

contribution to the 2025 International Conference on Applied System Innovation ICASI 2025 Tokyo Japan April 22 25 2025 Of the more than 500 submitted papers from 14 different countries after review approximately a quarter was accepted for publication The book aims to provide an integrated communication platform for researchers from a wide range of topics including information technology communication science applied mathematics computer science advanced material science and engineering System Innovation for a Global Economy enhances interdisciplinary collaborations between science and engineering technologists and is aimed at academics and technologists interested in the above mentioned areas

Frontiers in Cyber Security Biwen Chen,Xinwen Fu,Min Huang,2024-12-26 This two volume set CCIS 2315 and CCIS 2316 constitutes the refereed proceedings of the 7th International Conference on Frontiers in Cyber Security FCS 2024 held in Chongqing China during July 26 28 2024 The 47 full papers presented in these two volumes were carefully reviewed and selected from 121 submissions The papers are organized in the following topical sections Part I Machine Learning and Differential Privacy Federated Learning Privacy Preserving Services Blockchain and Distributed System Public Key Cryptography Multi Party Computation Part II Multi Party Computation Smart Grid Authentication and Deduplication

Multimedia Forensics and Security Li, Chang-Tsun,2008-07-31 As information technology is rapidly progressing an enormous amount of media can be easily exchanged through Internet and other communication networks Increasing amounts of digital image video and music have created numerous information security issues and is now taken as one of the top research and development agendas for researchers organizations and governments worldwide Multimedia Forensics and Security provides an in depth treatment of advancements in the emerging field of multimedia forensics and security by tackling challenging issues such as digital watermarking for copyright protection digital fingerprinting for transaction tracking and digital camera source identification *Mechanical Engineering, Materials and Energy II* Sally Gao,Tina

Hu,2013-01-11 Selected peer reviewed papers from the 2nd International Conference on Mechanical Engineering Materials and Energy ICMEME 2012 October 26 27 2012 Dalian China **Intelligent Cyber-Physical Systems Security for**

Industry 4.0 Jyoti Sekhar Banerjee,Siddhartha Bhattacharyya,Ahmed J Obaid,Wei-Chang Yeh,2022-12-16 Intelligent Cyber Physical Systems Security for Industry 4 0 Applications Challenges and Management presents new cyber physical security findings for Industry 4 0 using emerging technologies like artificial intelligence with machine deep learning data mining applied mathematics All these are the essential components for processing data recognizing patterns modeling new techniques and improving the advantages of data science Features Presents an integrated approach with Cyber Physical Systems CPS security and Industry 4 0 in one place Exposes the necessity of security initiatives standards security policies and procedures in the context of industry 4 0 Suggests solutions for enhancing the protection of 5G and the Internet of Things IoT security Promotes how optimization or intelligent techniques envisage the role of artificial intelligence machine deep learning AI ML DL in cyberphysical systems security for industry 4 0 This book is primarily aimed at graduates

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