

# Canonical Set Theory with Applications from Parallel Matrix Operations and Data Structures to Homomorphic Encryption

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## Abstract

Few questions have resonated through the mind of the mathematician, as much as the simple question of describing the nature of a number. The longstanding consensus is that it does not matter which set theory is used to describe numbers. What matters is that it can be done. It is widely believed that the particular choice of a construction for natural and real numbers is irrelevant for the rest of mathematics. Here, a set theory is proposed as a canonical theory that yields transparent proofs in fundamental areas of mathematics including group theory, discrete mathematics, analysis, data types, and new results tying these areas and addressing Hilbert's 24-th (twenty-fourth) Problem and Benacerraf's Identification Problem. Applications to computer science include a model for Homomorphic Encryption, and a linearly-scalable circuit that serves for parallel addition and multiplication of scalars, vectors and matrices, with wide implications for Area-Specific Integrated Circuits (ASICs) used in CGI, Neural Networks and AI training, Dimensionality Reduction for Machine Learning at Software and Hardware Level, Digital Signal Processing, among other applications that depend on fast and low-powered vector operations. This low-power In-Situ (In-Memory) computing architecture, based on a patent-pending Simple and Linear Fast Adder (SLFA), is a direct consequence of the proposed set theory. Algebraic invariants are also described with results bringing together set theory, discrete mathematics, number theory and algebraic structures. A canonical block form is defined for the Cayley table of finite groups, in terms of the numeric representation of groups. Automorphisms, and the minimal independent system of equations that define the group are given by the block form, among other information regarding groups' internal and external structure. The proposed construction of natural numbers is generalized to provide a simple and transparent construction of the continuum of real numbers, with a fast approximation for the numeric derivative that can be implemented with the SLFA. Infinite data structures are defined in the most efficient way with the smallest possible data type. A countable sequence of real numbers is coded in a single real number, and an infinite  $\infty \times \infty$  real-valued matrix is also coded with a single real number. A real function is coded in a set of real numbers, and a countable sequence of real functions is also coded in a set of real numbers. These codings are meaningful and computable. Mathematical objects of all types are well assigned to tree structures in a proposed hierarchy of types.

**Keywords:** Structuralism; Set Theory; Fast Adder; Arithmetic Logic Unit; Finite Group; Real Number; Fast Derivative; Data Types; Tree; Complexity; Matrix Multiplication; Fully-Homomorphic Encryption

## Introduction

The first section provides appropriate definitions for operation, group, field and linear space that allow simple constructions and proofs in the next sections. It is not a prerequisite for understanding the other sections. The reader who is not motivated by algebraic definitions may skip this section, but Definition 1 and Theorem 1, found in this section, should be understood before proceeding.

Today, every mathematician knows that the natural number zero is the empty set,  $\emptyset$ . However, most mathematicians in the time of Hilbert (and to this day) did not feel the need to justify the existence of the number 0, and argued that the nature of numbers is irrelevant and only their behavior is important. When Hilbert proposed his famous list of Problems (Paris, 1900), he paid special attention to the philosophical and practical

# Parallel Image Analysis Theory And Applications

**Andrew G. Tescher**

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method the wide range achievement test 4 reading subtest wrat 4 reading was administered along with comprehensive neurocognitive assessments to 150 hiv seropositive hiv and 76 hiv seronegative hiv age education and sex matched participants a subset of 48 hiv individuals completed a second study visit m 14 4 months in which

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feb 27 2016 word reading and sentence comprehension is a composite configuration the wrat 4 was standardized on a representative national sample of over 3 000 individuals ranging in age from 5 to 94 years there were alternate forms developed and equated during standardization blue and green forms scores were developed for both age and grade

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the wide range achievement test 4 wrat 4 is the latest 2006 version of a widely used academic achievement test battery originally consisting of subtests measuring single word reading written spelling and written mathematics

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the wide range achievement test 4 reading subtest wrat 4 reading was administered along with comprehensive neurocognitive assessments to 150 hiv seropositive hiv and 76 hiv seronegative hiv age education and sex matched

participants at baseline a subset of 48 hiv individuals completed a second study visit m 14 4 months in which  
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the wide range achievement test currently in its fifth edition wrat5 is an achievement test which measures an individual s ability to read words comprehend sentences spell and compute solutions to math problems 1 the test is appropriate for individuals aged 5

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the wide range achievement test fourth edition wrat4 wilkinson robertson 2006 is designed to provide a quick simple psychometrically sound assessment of academic skills designed for use with individuals aged 5 through 94 the wrat4 consists of four subtests word reading sentence comprehension spelling and math computation

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the wide range achievement test fifth edition wrat5 provides an accurate and easy to administer way to assess and monitor the reading spelling and math skills and helps identify possible learning disabilities

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jan 30 2010 the wide range achievement test wrat was developed in the 1930s by psychologist joseph jastak and first published for operational use in 1946 two subsequent revisions of the wrat were

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wide range achievement test 4 wrat4 is designed to measure an individual s ability to read words comprehend sentences spell words based upon identified sounds solve simple math problems orally and compute solutions to more complex math problems

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the wide range achievement test fourth edition wrat 4 is an achievement test that quickly evaluates a person s basic reading math spelling and science skills originally developed in 1941 by joseph jastak and sidney bijou the wrat

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the wrat4 is an easy to use assessment of reading spelling and mathematical achievement for individuals aged 5 to adulthood

adjustments have been made to improve the assessment of reading comprehension and to a limited degree decoding as in  
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wrat4 test report about this product by gary s wilkinson phd in collaboration with gary j robertson phd the fourth edition of this classic test measures the basic academic skills reading spelling and mathematical computation necessary for effective learning communication and thinking

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description the fourth edition of the wide range achievement test the wrat 4 is the latest offering in a test series first published in 1946 the wrat 4 is a norm referenced test that measures the basic academic skills of word reading sentence comprehension spelling and

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wrat 4 wide range achievement test professional manual authors gary s wilkinson gary j robertson psychological assessment resources inc summary a diagnostic assessment of reading spelling sentence comprehension and math computation

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p the wide range achievement test 4 wrat4 is an academic skills assessment which measures reading skills math skills spelling and comprehension the wrat4 serves as an excellent initial academic achievement evaluation re evaluation or

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wide range achievement test the math portion of the wide range achievement test 4th edition wrat 4 measures an individual s ability to perform basic mathematics computations through counting identifying numbers solving simple oral problems and calculating written mathematics problems

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the wide range achievement test 4 wrat4 is an academic skills assessment which measures reading skills math skills spelling and comprehension the wrat4 serves as an excellent initial academic achievement evaluation re evaluation or progress measure for any student key information

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wide range achievement test 4 is the fourth edition of achievement test a system of tasks to measure the level of development of certain psychological qualities properties of the individual psychological measurement is normalized to the values of the inter individual differences the test is a series of relatively short trials problems