

Discrete and Continuous: Two sides of the same?

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Abstract

How deep is the dividing line between discrete and continuous mathematics? Basic structures and methods of both sides of our science are quite different. But on a deeper level, there is a more solid connection than meets the eye.

1 Introduction

There is a rather clear dividing line between discrete and continuous mathematics. Continuous mathematics is classical, well established, with a rich variety of applications. Discrete mathematics grew out of puzzles and then is often identified with specific application areas like computer science or operations research. Basic structures and methods of both sides of our science are quite different (continuous mathematicians use limits; discrete mathematicians use induction).

This state of mathematics at this particular time, the turn of the millennium, is a product of strong intrinsic logic, but also of historical coincidence.

The main external source of mathematical problems is science, in particular physics. The traditional view is that space and time are continuous, and that the laws of nature are described by differential equations. There are, of course, exceptions: chemistry, statistical mechanics, and quantum physics are based on at least a certain degree of discreteness. But these discrete objects (molecules, atoms, elementary particles, Feynman graphs) live in the continuum of space and time. String theory tries to explain these discrete objects as singularities of a higher dimensional continuum.

Accordingly, the mathematics used in most applications is analysis, the real hard core of our science. But especially in newly developing sciences, discrete models are becoming more

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**Osvaldo Gervasi, Marina L.
Gavrilova, Vipin Kumar, Antonio
Laganà, Heow Pueh Lee, Youngsong
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Tan**

Discrete And Continuous Two Sides Of The Same:

the criticism of categories Richard Burdon Haldane Haldane (Viscount),1904 *The Pathway to Reality* Richard Burdon Haldane Haldane (Viscount),1926 **The Logic of Hegel** Georg Wilhelm Friedrich Hegel,1892 The Pathway to Reality : Stage the Second Richard Burdon Haldane Haldane (Viscount),1904 **The Logic of Hegel, Translated from the Encyclopædia of the Philosophical Sciences** Georg Wilhelm Friedrich Hegel,1874 Spatial Context Christopher Gold,2018-04-17 Many disciplines are concerned with manipulating geometric or spatial objects in the computer such as geology cartography computer aided design CAD etc and each of these have developed their own data structures and techniques often independently Nevertheless in many cases the object types and the spatial queries are similar and this book attempts to find a common theme **Hegel - Premium Collection** Georg Wilhelm Friedrich Hegel,2023-11-09 In the Hegel Premium Collection the intricate tapestry of Georg Wilhelm Friedrich Hegel s philosophical thought is woven together in a manner that balances rigorous analysis with accessible prose This anthology showcases Hegel s dialectical method particularly his exploration of consciousness self awareness and the unfolding of the spirit within the context of history and society Hegel s writing rich in complexity and often challenging invites readers to engage deeply with concepts such as absolute idealism and the reconciliation of contradictions offering profound insights into the human condition and the progression of thought Georg Wilhelm Friedrich Hegel a pivotal figure in German Idealism was influenced by the tumultuous socio political landscape of 19th century Europe particularly the French Revolution and the rise of nationalism His philosophical inquiries sought to understand the essence of reality freedom and the development of the self through a historical lens Hegel s background in theology and classical studies equipped him with the intellectual tools to confront and analyze the contradictions of existence ultimately molding his revolutionary approach to philosophy This collection is highly recommended for those seeking to grasp the foundations of modern philosophical discourse Whether you are a seasoned philosopher or a curious newcomer Hegel s Premium Collection will challenge and enrich your understanding of philosophy s role in shaping human experience Dive into this essential compilation to witness the evolution of ideas that continue to resonate through contemporary thought **Mathematical Reviews** ,2002 *Math Instruction for Students with Learning Difficulties* Susan Perry Gurganus,2021-11-29 This richly updated third edition of Math Instruction for Students with Learning Difficulties presents a research based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK 12 teachers Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics this essential text addresses teacher and student attitudes towards mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors Chapters on assessment and instruction precede strands that focus on critical concepts Replete with suggestions for class activities and field extensions the new edition features current research across topics and an

innovative thread throughout chapters and strands multi tiered systems of support as they apply to mathematics instruction

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