



Finite versus infinite : contributions to an eternal dilemma /

Calude, Cristian (1952-)

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Monografía

The finite-infinite interplay is central in the human thinking, from ancient philosophers and mathematicians (Zenon, Pythagoras), to modern mathematics (Cantor, Hilbert) and computer science (Turing, Goedel). Recent developments in mathematics and computer science suggest radically new answers to classical questions such as: Does infinity exist? Where does infinity come from? How can we reconcile the finiteness of the human brain with the infinity of ideas it produces? Well-known authors from around the world, many of them architects of the mathematics and computer science for the new century, contribute to the volume. While mathematical in spirit, contributions have many connections with computer science, cognitive science, linguistics, philosophy, physics, biology and semiotics

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Contenido: Smoothing Data: When Finite and Infinite Dimensional Help Each Other -- Rearrangements of Real Functions derived from the Combinatorics of Young Tableaux -- A Possible Distance for Sequences of Equal and Unequal Length -- Solving Finitely Refutable Mathematical Problems -- State Complexity of Regular Languages: Finite versus Infinite -- A Century of Controversy over the Foundations of Mathematics -- Continuity, Discontinuity, and Negotiation of Meaning in Distributed Virtual Environments -- Finite versus Infinite in Singularity Dynamics -- An Interesting Serendipitous Real Number -- Algebraic Representations of Regular Array Languages -- Rough Set Processing of Vague Information using Fuzzy Similarity Relations -- Relativised Code Concepts and Multi-Tube DNA Dictionaries -- Uniform Scattered Factors -- Pregroups: A New Algebraic

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