

A tour with Constructive Real Numbers

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Abstract. The aim of this work is to characterize constructive real numbers through a minimal axiomatization. We introduce, discuss and justify 16 constructive axioms. Then we address their expressivity considering the alternative axiomatizations.

1 Overview of the work

Real numbers are classically defined as a complete ordered field, but this is not the case in a constructive logic setting: actually the totality of order is not a constructive property.

This work tries to understand (again) constructive real numbers. Our main contribution is a new system of axioms, synthesized with the aim of being minimal, i.e. of assuming the least number of primitive notions and properties. Such a system is consistent with respect to reference models we have in mind — (equivalence classes of) Cauchy sequences [TvD88] and co-inductive streams of digits [CDG00] — and will be compared to other proposals in the literature [Br99, GPWZ00]. The expressive power of the axioms will be addressed in order to guarantee that a sufficient part of the constructive analysis can be derived from them.

We define constructive real numbers through sixteen axioms organized in four groups: arithmetic operations, ordering, Archimedes' postulate and completeness. Our axiomatization uses only three basic concepts: addition (+), multiplication (\times) and strict order (<).

In most of the constructive approaches to analysis [Br97, Bee85, Wei00] real numbers are defined as a quotient of a set of representations (e.g. equivalence classes of Cauchy sequences, digit expansions, etc.). It follows that also in an axiomatic approach it is necessary to see the reals as a set provided with an equivalence relation. In our proposal, this equivalence relation (\sim) is not a primitive notion, but it is derived together with its fundamental properties through the strict order relation. We define the equivalence by $(x \sim y) \triangleq \neg((x < y) \vee (y < x))$; the fact that the equivalence relation is preserved by the arithmetic operations follows from the following axioms, which reverse the usual perspective:

$$\begin{aligned}(x + z < y + z) &\rightarrow (x < y) \\(x \times z < y \times z) &\rightarrow (x < y) \vee ((y < x) \wedge (z < 0))\end{aligned}$$

Constructive Real Numbers Constructive

Michiel Hazewinkel



Constructive Real Numbers Constructive:

Constructive Real Numbers and Constructive Function Spaces Nikolaï Aleksandrovich Shanin, 1968 This book is devoted to certain problems of constructive mathematical analysis | The basic sections are Chapters II and III which are devoted to the foundations of the theory of constructive function spaces Information from the theory of constructive real numbers needed in these chapters is presented in the first chapter The first chapter also contains other material in it the logicomathematical symbolism which we shall use is described and some problems of constructive mathematical logic are considered

Constructive Real Numbers and Function Spaces Sanin. N.A, 2000-08-01

Mathematics Of Harmony As A New Interdisciplinary Direction And "Golden" Paradigm Of Modern Science - Volume 2: Algorithmic Measurement Theory, Fibonacci And Golden Arithmetic's And Ternary Mirror-symmetrical Arithmetic Alexey Stakhov, 2020-09-03 Volume II is the second part of the 3 volume book Mathematics of Harmony as a New Interdisciplinary Direction and Golden Paradigm of Modern Science Mathematics of Harmony rises in its origin to the harmonic ideas of Pythagoras Plato and Euclid this 3 volume book aims to promote more deep understanding of ancient conception of the Universe Harmony the main conception of ancient Greek science and implementation of this conception to modern science and education This 3 volume book is a result of the authors research in the field of Fibonacci numbers and the Golden Section and their applications It provides a broad introduction to the fascinating and beautiful subject of the Mathematics of Harmony a new interdisciplinary direction of modern science This direction has many unexpected applications in contemporary mathematics a new approach to a history of mathematics the generalized Fibonacci numbers and the generalized golden proportions the generalized Binet's formulas theoretical physics new hyperbolic models of Nature and computer science algorithmic measurement theory number systems with irrational bases Fibonacci computers ternary mirror symmetrical arithmetic The books are intended for a wide audience including mathematics teachers of high schools students of colleges and universities and scientists in the field of mathematics theoretical physics and computer science The book may be used as an advanced textbook by graduate students and even ambitious undergraduates in mathematics and computer science

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Constructive Analysis, Types and Exact Real Numbers ,2007 *Research Topics in Functional Programming* D. A. Turner,1990 Soviet Mathematics ,1975 **Glasnik matematičko-fizički i astronomski** ,1965 Techniques of Constructive Analysis Douglas S. Bridges,Luminita Simona Vita,2007-04-30 This book is an introduction to constructive mathematics with an emphasis on techniques and results obtained in the last twenty years The text covers fundamental theory of the real line and metric spaces focusing on locatedness in normed spaces and with associated results about operators and their adjoints on a Hilbert space The first appendix gathers together some basic notions about sets and orders the second gives the axioms for intuitionistic logic No background in intuitionistic logic or constructive analysis is needed in order to read the book but some familiarity with the classical theories of metric normed and Hilbert spaces is necessary

Soviet Mathematics - Doklady ,1985 **Construction Real Numbers and Constructive Function Spaces** Nikolai Aleksandrovič Šanin,1968 *Mechanical Theorem Proving in the USSR* Vladimir Lifschitz,1986 Handbook of Constructive Mathematics Douglas Bridges,Hajime Ishihara,Michael Rathjen,Helmut Schwichtenberg,2023-05-11 Gives a complete overview of modern constructive mathematics and its applications through surveys by leading experts **Notes on Constructive Mathematics** Per Martin-Löf,1970 **Logic and Foundations of Mathematics** Arend Heyting,1969

Proceedings of the American Mathematical Society American Mathematical Society,1971 Contains the material formerly published in even numbered issues of the Bulletin of the American Mathematical Society The Journal of Symbolic Logic Alonzo Church,Cooper Harold Langford,1980 Includes lists of members

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