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Multivalued Function

A multivalued function, also known as a multiple-valued function (Knopp 1996, part 1 p. 103), is a "function" that assumes two or more distinct values in its range for at least one point in its domain. While these "functions" are not functions in the normal sense of being one-to-one or many-to-one, the usage is so common that there is no way to dislodge it. When considering multivalued functions, it is therefore necessary to refer to usual "functions" as single-valued functions.

While the trigonometric, hyperbolic, exponential, and integer power functions are all single-valued functions, their inverses are multivalued. For example, the function z^2 maps each complex number z to a well-defined number z^2, while its inverse function $\sqrt{z}$ maps, for example, the value $z = 1$ to $\sqrt{1} = \pm 1$. While a unique principal value can be chosen for such functions (in this case, the principal square root is the positive one), the choices cannot be made continuous over the whole complex plane. Instead, lines of discontinuity must occur.

Iterations Of Multivalued Functions

Igor Aizenberg,Naum N. Aizenberg,Joos P.L. Vandewalle

Iterations Of Multivalued Functions:

Iterations of Multi-valued Functions Andrzej Smajdor,1985 **Iteration Theory (Ecit 91) - Proceedings Of The European Conference** J P Lampreia,Jaume Llibre,Christian Mira,Gyoergy Targonski,Jose Sousa Ramos,1992-12-18 The main theme of the ECIT conferences is Iteration Theory on the borderline between Dynamics and Functional Equations The aim is to foster symbiosis between mainstream dynamics and iteration theory treated in the style of functional equations theory The following topics are focused turbulence and iteration characterization of chaos kneading theory symbolic dynamics bifurcation periods of maps topological dynamics discrete retarded dynamical systems cellular automata as dynamical systems iterative roots of formal power series iterative roots of polynomials phantom iterative roots iterative groups and semigroups families of commuting functions algebraic aspects of iteration theory and functional equations

Computability and Complexity in Analysis Jens Blanck,Vasco Brattka,2001-05-23 This book constitutes the thoroughly refereed post proceedings of the 4th International Workshop on Computability and Complexity in Analysis CCA 2000 held in Swansea UK in September 2000 The 23 revised full papers presented together with a report on a competition of exact real arithmetic systems were carefully selected from 28 papers accepted for presentation during the workshop The book presents a cross section on current research on computability and complexity in analysis Advances in Dimension Theory, Fractal Functions and Measures Saurabh Verma,Maria A. Navascu,s,Amit Priyadarshi,2025-08-25 This volume contains the proceedings of the AMS Special Session on Fractal Geometry and Dynamical Systems held at the Spring Eastern Virtual Sectional Meeting on April 1 2 2023 and the virtual Conference on Functional Analysis and Fractals organized by the Indian Institute of Information Technology Allahabad IIIT A India on February 16 18 2024 Fifty years ago Mandelbrot created a new type of geometry called fractal One of the novelties of this new mathematics is a systematic qualitative and quantitative approach to the concepts of irregular shapes and roughness Galileo said that the universe is written in mathematical language and its characters are triangles circles and other geometric figures Mandelbrot masterly defined other geometric objects whose main property is the self similarity and coined the term fractal for them Such models fit better complex patterns such as the circulatory system the coastline of a littoral country or a stock market chart One way of quantifying the complexity of such structures is the computation of their fractal dimension This book presents modern advances in the concept of dimension and its related notion of fractal measure The text is oriented to give insight into the current research in the area and it contains novel contributions of important scientists in the field The book deals with very diverse topics such as the Hausdorff dimension of a set of continued fractions dimension theory of inhomogeneous attractors ergodic conjecture of falling balls systems or Hausdorff measures to represent uncertainty in neural networks **Iteration Theory and Its Functional Equations** Roman Liedl,Ludwig Reich,György Targonski,1985-12 *Multi-Valued and Universal Binary Neurons* Igor Aizenberg,Naum N. Aizenberg,Joos P.L. Vandewalle,2013-03-14 Multi Valued and Universal Binary Neurons

deals with two new types of neurons multi valued neurons and universal binary neurons These neurons are based on complex number arithmetic and are hence much more powerful than the typical neurons used in artificial neural networks Therefore networks with such neurons exhibit a broad functionality They can not only realise threshold input output maps but can also implement any arbitrary Boolean function Two learning methods are presented whereby these networks can be trained easily The broad applicability of these networks is proven by several case studies in different fields of application image processing edge detection image enhancement super resolution pattern recognition face recognition and prediction The book is hence partitioned into three almost equally sized parts a mathematical study of the unique features of these new neurons learning of networks of such neurons and application of such neural networks Most of this work was developed by the first two authors over a period of more than 10 years and was only available in the Russian literature With this book we present the first comprehensive treatment of this important class of neural networks in the open Western literature Multi Valued and Universal Binary Neurons is intended for anyone with a scholarly interest in neural network theory applications and learning It will also be of interest to researchers and practitioners in the fields of image processing pattern recognition control and robotics   Complex-Valued Neural Networks with Multi-Valued Neurons Igor Aizenberg,2011-06-24 Complex Valued Neural Networks have higher functionality learn faster and generalize better than their real valued counterparts This book is devoted to the Multi Valued Neuron MVN and MVN based neural networks It contains a comprehensive observation of MVN theory its learning and applications MVN is a complex valued neuron whose inputs and output are located on the unit circle Its activation function is a function only of argument phase of the weighted sum MVN derivative free learning is based on the error correction rule A single MVN can learn those input output mappings that are non linearly separable in the real domain Such classical non linearly separable problems as XOR and Parity n are the simplest that can be learned by a single MVN Another important advantage of MVN is a proper treatment of the phase information These properties of MVN become even more remarkable when this neuron is used as a basic one in neural networks The Multilayer Neural Network based on Multi Valued Neurons MLMVN is an MVN based feedforward neural network Its backpropagation learning algorithm is derivative free and based on the error correction rule It does not suffer from the local minima phenomenon MLMVN outperforms many other machine learning techniques in terms of learning speed network complexity and generalization capability when solving both benchmark and real world classification and prediction problems Another interesting application of MVN is its use as a basic neuron in multi state associative memories The book is addressed to those readers who develop theoretical fundamentals of neural networks and use neural networks for solving various real world problems It should also be very suitable for Ph D and graduate students pursuing their degrees in computational intelligence   **Iterative Functional Equations** Marek Kuczma,Bogdan Choczewski,Roman Ger,1990-07-27 A cohesive and comprehensive account of the modern theory of iterative functional equations Many of the results included have appeared before only in research literature making

this an essential volume for all those working in functional equations and in such areas as dynamical systems and chaos to which the theory is closely related The authors introduce the reader to the theory and then explore the most recent developments and general results Fundamental notions such as the existence and uniqueness of solutions to the equations are stressed throughout as are applications of the theory to such areas as branching processes differential equations ergodic theory functional analysis and geometry Other topics covered include systems of linear and nonlinear equations of finite and infinite ORD various function classes conjugate and commutable functions linearization iterative roots of functions and special functional equations   **The Eighth International Symposium on Multiple-Valued Logic** ,1978   Iteration of Rational Functions of One Complex Variable and Basins of Attractive Fixed Points Gregg Willard Saunders,1984

   Perception, Representations, Image, Sound, Music Richard Kronland-Martinet,Sølvi Ystad,Mitsuko Aramaki,2021-03-09 This book constitutes the refereed proceedings of the 14th International Symposium on Perception Representations Image Sound Music CMMR 2019 held in Marseille France in October 2019 The 46 full papers presented were selected from 105 submissions The papers are grouped in 9 sections The first three sections are related to music information retrieval computational musicology and composition tools followed by a section on notations and instruments distributed on mobile devices The fifth section concerns auditory perception and cognition while the three following sections are related to sound design and sonic and musical interactions The last section contains contributions that relate to Jean Claude Risset s research   *Publicationes mathematicae* Kossuth Lajos Tudományegyetem. Matematikai Intézet,1994

   Multiple-valued Switching Theory, Jon C. Muzio,T. C. Wesselkamper,1986 An essentially self contained presentation of all the relevant techniques of multiple valued analysis this book will be of great value to undergraduates or postgraduate students of computer logic and design and all who need to master this subject The entire range of techniques built up throughout the book is applied to a number of case studies with emphasis placed firmly on the achievement of switching circuits to accomplish required tasks   Proceedings of the 1995 ACM SIGMOD International Conference on Management of Data Michael Carey,1995   *Saturation: An Efficient Iteration Strategy for Symbolic State-space Generation* ,2001 This paper presents a novel algorithm for generating state spaces of asynchronous systems using Multi valued Decision Diagrams In contrast to related work the next state function of a system is not encoded as a single Boolean function but as cross products of integer functions This permits the application of various iteration strategies to build a system s state space In particular this paper introduces a new elegant strategy called saturation and implements it in the tool SMART On top of usually performing several orders of magnitude faster than existing BDD based state space generators the algorithm s required peak memory is often close to the nal memory needed for storing the overall state spaces   **Iteration Theory (ECIT '04)** ,2006   Mathematical Reviews ,2007   *Iterative Methods of Solution for Complementarity Problems* P. K. Subramanian,1985   **Computability in Combinatory Spaces** Dimitŭr Genchev Skordev,1992 This volume provides an

account of the current state of the theory of combinatory spaces and discusses various applications Here the term combinatory space can be regarded as a system for functional programming and bears no close connection with combinatory logic   **Lectures on Theory of Functions in Multiply Connected Domains** Helmut Grunsky,1978

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