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# Iteration Theory and its Functional Equations

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# **Iteration Theory**

Manfred Droste, Werner Kuich, Heiko Vogler

# **Iteration Theory:**

Iteration Theory and its Functional Equations Roman Liedl, Ludwig Reich, György Targonski, 2006-11-14 Iteration Theory - Proceedings Of The European Conference W Forg-rob, Norbert Netzer, Christian Mira, Gyoergy Targonski, Detlef Gronau, 1996-07-03 Iteration theory has its roots in the operation of substituting functions into itself This has led to questions like that of the behaviour of functions by repeating this substitution and when the number of iterations tends to infinity The terms orbit and chaos appropriately describe this behaviour Dynamical systems and the theory of functional equations play important roles in this field Iteration Theory - Proceedings Of The European Conference C Simo, Christian Mira, Gyoergy Targonski, Norbert Netzer, 1991-07-22 The main topics of this proceedings stress the interactions between the theory of functional equations and the theory of dynamical systems A total of 38 invited lectures are Iteration Theory (Ecit 91) - Proceedings Of The European Conference J P Lampreia, Jaume Llibre, Christian included 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 Iteration Theories Stephen L. Bloom, Zoltan Esik, 2012-12-06 This monograph contains the results of our joint research over the last ten years on the logic of the fixed point operation The intended au dience consists of graduate students and research scientists interested in mathematical treatments of semantics We assume the reader has a good mathematical background although we provide some prelimi nary facts in Chapter 1 Written both for graduate students and research scientists in theoret ical computer science and mathematics the book provides a detailed investigation of the properties of the fixed point or iteration operation Iteration plays a fundamental role in the theory of computation for example in the theory of automata in formal language theory in the study of formal power series in the semantics of flowchart algorithms and programming languages and in circular data type definitions It is shown that in all structures that have been used as semantical models the equational properties of the fixed point operation are cap tured by the axioms describing iteration theories These structures include ordered algebras partial functions relations finitary and in finitary regular languages trees synchronization trees 2 categories and others Index Theory for Symplectic Paths with Applications Yiming Long, 2012-12-06 This book is based upon my monograph Index Theory for Hamiltonian Systems with Applications published in 1993 in Chinese and my notes for lectures and courses given at Nankai University Brigham Young University ICTP Trieste and the Institute of Mathematics of Academia Sinica during the last ten years The aim of this book is

twofold 1 to give an introduction to the index theory for symplectic matrix paths and its iteration theory which form a basis for the Morse theoretical study on Hamilto nian systems and to give applications of this theory to periodic boundary value problems of nonlinear Hamiltonian systems Here the iteration theory means the index theory of iterations of periodic solutions and symplectic matrix paths 2 to serve as a reference book on these topics. There are many different ways to introduce the index theory for symplectic paths in order to establish Morse type index theory of Hamiltonian systems In this book I have chosen a relatively elementary way i e the homotopy classification method of symplectic matrix paths It depends only on linear algebra point set topology and certain basic parts of linear functional analysis I have tried to make this part of the book self contained and at the same time include all of the major results on these topics so that researchers and students interested in them can read it without substantial difficulties and can learn the main results in this area for their possible applications Algebraic Methodology and Software Technology Michael Johnson, 1997-12 This book constitutes the refereed proceedings of the 6th International Conference on Algebraic Methodology and Software Engineering AMAST 97 held in Sydney Australia in December 1997 The volume presents 48 revised full papers selected from an unusually high number of submissions One of the outstanding features of AMAST is its mix of serious mathematical development of formal methods in software engineering with practical concerns tools case studies and industrial development The volume addresses all current aspects of formal methods in software engineering and programming methodology with a certain emphasis on algebraic and logical foundations Semantics for Concurrency Marta Z. Kwiatkowska, Michael W. Shields, Richard M. Thomas.2013-03-14 The semantics of concurrent systems is one of the most vigorous areas of research in theoretical computer science but suffers from disagree ment due to different and often incompatible attitudes towards abstracting non sequential behaviour When confronted with process algebras which give rise to very elegant highly abstract and com positional models traditionally based on the interleaving abstraction some argue that the wealth of contribution they have made is partially offset by the difficulty in dealing with topics such as faimess On the other hand the non interleaving approaches based on causality although easing problems with fairness and confusion still lack struc ture compositionality and the elegance of the interleaving counter parts Since both these approaches have undoubtedly provided important contributions towards understanding of concurrent systems one should concentrate on what they have in common rather than the way they differ The International Workshop on Semantics for Concurrency held at the University of Leicester on 23 25 July 1990 was organised to help overcome this problem Its main objective was not to be divisive but rather to encourage discussions leading towards the identification of the positive objective features of the main approaches in the hope of furthering common understanding The Workshop met with an excel lent response and attracted contributions from all over the world The result was an interesting and varied programme which was a combi nation of invited and refereed papers The invited speakers were Prof dr E Best Hildesheim University Prof dr A Iteration Theory (ECIT '06) Gian Luigi Forti, 2007

Selected Papers Calvin C. Elgot, 2012-12-06 Cal Elgot was a very serious and thoughtful researcher who with great determination attempted to find basic explanations for certain mathematical phenomena as the selection of papers in this volume well illustrate His approach was for the most part rather finitist and constructivist and he was inevitably drawn to studies of the process of computation It seems to me that his early work on decision problems relating automata and logic starting with his thesis under Roger Lyndon and continuing with joint work with Biichi Wright Copi Rutledge Mezei and then later with Rabin set the stage for his attack on the theory of computation through the abstract treatment of the notion of a machine This is also apparent in his joint work with A Robinson reproduced here and in his joint papers with John Shepherdson Of course in the light of subsequent work on decision problems by Biichi Rabin Shelah and many many others the subject has been placed on a completely different plane from what it was when Elgot left the area But I feel that his papers results and style were very definitely influential at the time and may well have altered the course of the investigation of these problems As Sammy Eilenberg explains the next big influence on Elgot's thinking was category theory which gave him a way of expressing his ideas in a sharply algebraic manner The joint book with Eilenberg is one illustration of this New Directions and Open Problems in Iteration Theory György I. Targonski,1984 influence *Algebraic Informatics* Symeon Bozapalidis, George Rahonis, 2009-08-20 Annotation This book constitutes the refereed proceedings of the Third International Conference on Algebraic Informatics CAI 2009 held in Thessaloniki Greece in May 2009 The 16 full papers were carefully reviewed and selected from 25 submissions. The papers cover topics such as algebraic semantics on graph and trees formal power series syntactic objects algebraic picture processing finite and infinite computations acceptors and transducers for strings trees graphs arrays etc decision problems algebraic characterization of logical theories process algebra algebraic algorithms algebraic coding theory algebraic aspects of cryptography Handbook of Weighted Automata Manfred Droste, Werner Kuich, Heiko Vogler, 2009-09-18 The purpose of this Handbook is to highlight both theory and applications of weighted automata Weighted finite automata are classical nondeterministic finite automata in which the transitions carry weights These weights may model e g the cost involved when executing a transition the amount of resources or time needed for this or the probability or reliability of its successful execution. The behavior of weighted finite automata can then be considered as the function suitably defined associating with each word the weight of its execution Clearly weights can also be added to classical automata with infinite state sets like pushdown automata this extension constitutes the general concept of weighted automata To illustrate the diversity of weighted automata let us consider the following scenarios Assume that a quantitative system is modeled by a classical automaton in which the transitions carry as weights the amount of resources needed for their execution Then the amount of resources needed for a path in this weighted automaton is obtained simply as the sum of the weights of its transitions Given a word we might be interested in the minimal amount of resources needed for its execution i e for the successful paths realizing the given word In this example we could also replace

the resources by profit and then be interested in the maximal profit realized correspondingly by a given word Lie Groups and Lie Algebras I V.V. Gorbatsevich, E.B. Vinberg, 1996-12-18 From the reviews the book must be of great help for a researcher who already has some idea of Lie theory wants to employ it in his everyday research and or teaching and needs a source for customary reference on the subject From my viewpoint the volume is perfectly fit to serve as such a source On the whole it is guite a pleasure after making yourself comfortable in that favourite office armchair of yours just to keep the volume gently in your hands and browse it slowly and thoughtfully and after all what more on Earth can one expect of any book The New Zealand Mathematical Society Newsletter **Mathematical Foundations of Computer Science 2000** Mogens Nielsen, Branislav Royan, 2003-06-29 This book constitutes the refereed proceedings of the 25th International Symposium on Mathematical Foundations of Computer Science MFCS 2000 held in Bratislava Slovakia in August September 2000 The 57 revised full papers presented together with eight invited papers were carefully reviewed and selected from a total of 147 submissions The book gives an excellent overview on current research in theoretical informatics All relevant foundational issues from mathematical logics as well as from discrete mathematics are covered Anybody interested in theoretical computer science or the theory of computing will benefit from this book CAAP'86 Paul Franchi-Zannettacci, 1986-03 Agaregating clones, colors, equations, iterates, numbers, and tiles Janos Aczel, 2012-12-06 The journal aequationes mathematicae publishes papers in pure and applied mathematics and in particular articles on functional equations combinatorics and dynamical systems Its 50th volume appears in 1995 To mark this occasion we are publishing in book form a repre sentative collection of outstanding survey papers assembled for our anniversary issue of aequationes mathematicae The articles by Quackenbush Targonski and Moszner discuss composition of functions from different points of view universal algebra dynamical systems iteration and functional equa tions The Ono Robbins Wahl and the Vince papers on number theory and tiles respectively are thematically linked by lattices Combinatorics in turn links the Vince paper with that of Tutte whose subject is chromatic sums its tools differential and functional equations The Paganoni Ratz and the Forti papers deal with conditional functional equations and with the related topic of stability Applications to the social and behavioral sciences in particular to aggregation and some theory are presented in the paper by J Aczel The aim of the collection is to survey selected fields of current interest We trust that it will be useful and informative for researchers teachers graduate and advanced undergraduate stu dents of mathematics and for those interested in applications in related fields lanDs Aczel Aequationes Mathematicae 50 1995 1 0001 9054 95 020001 01 1 50 0 20 0 University of Waterloo 1995 Birkhiiuser Verlag Basel Editorial Volume 50 of Aequationes Mathematicae This is the fiftieth volume of aequationes mathematicae Not only our modesty but also lack of space keeps us from self congratulation Algebraic Foundations in Computer Science Werner Kuich, George Rahonis, 2011-11-06 This Festschrift volume published in honor of Symeon Bozapalidis on the occasion of his retirement after more than 35 years of teaching activity focuses on the subjects taught by

Symeon namely algebra linear algebra mathematical logic number theory automata theory tree languages and series algebraic semantics and fuzzy languages Since 1982 at the Aristotle University of Thessaloniki Symeon's main interests have been closely connected with the algebraic foundations in computer science In particular he contributed to the development of the theory of tree languages and series the axiomatization of graphs picture theory and fuzzy languages. The volume contains 15 invited papers written by colleagues friends and students of Symeon All of the papers were carefully refereed and are connected to his research topics Most of the papers were presented at the Workshop on Algebraic Foundations in Computer Science held in Thessaloniki Greece during November 7 8 2011 **Foundations of Software Science and Computation Structures** Igor Walukiewicz, 2004-03-19 This book constitutes the refereed proceedings of the 7th International Conference on Foundations of Software Science and Computation Structures FOSSACS 2004 held in Barcelona Spain in March April 2004 The 34 revised full papers presented together with the abstracts of 2 invited talks were carefully reviewed and selected from over 130 submissions Among the topics addressed are lambda calculus cryptographic protocol analysis graphs and grammar systems decision theory bisimulation rewriting normalization specification verification process calculi mobile code automata program semantics dynamic logics timed languages security analysis information theoretical aspects theory in nonlinear analysis Chungen Liu, 2019-05-22 This book provides detailed information on index theories and their applications especially Maslov type index theories and their iteration theories for non periodic solutions of Hamiltonian systems It focuses on two index theories L index theory index theory for Lagrangian boundary conditions and P index theory index theory for P boundary conditions In addition the book introduces readers to recent advances in the study of index theories for symmetric periodic solutions of nonlinear Hamiltonian systems and for selected boundary value problems involving partial differential equations

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