PRINCIPLES OF CONTINUOUS CHOICE AND CONTINUITY OF FUNCTIONS IN FORMAL SYSTEMS FOR CONSTRUCTIVE MATHEMATICS

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This paper has its origins in the efforts of various mathematicians to systematically constructivize large portions of mathematics. A natural question is, "What more do we know when we have solved a problem constructively, than when we have solved it using proof by contradiction?" There are several known answers to this question, ranging from the philosophical to the recursion-theoretic, but all the answers seem to involve constructivity or computability in some sense. Here we offer a different answer: if a problem has been solved constructively, then the solution depends continuously on all parameters of the problem. In short: constructive existence implies continuous dependence. This heuristic principle promises to be of some usefulness in organizing, understanding, and extending the known results on continuous dependence in analysis, e.g. that the solutions of certain differential equations depend continuously on the initial or boundary conditions.

Our purpose in the present paper is to make a metamathematical study based on the above idea. We present two types of results:

(i) if a problem can be proved to have a solution in certain formal systems, then the solution depends continuously on the parameters, and in fact it can be proved in the system that the solution depends continuously on the parameters; in short, derived rules of inference related to continuity.

(ii) consistency and independence results: it is consistent with certain formal systems to assume that if a problem can be solved, then the solution depends continuously on parameters.

These questions, which arose by consideration of the practice of mathematics, are nevertheless closely connected to many interesting questions at the foundations of constructive mathematics: questions involving the relations between continuity and extensionality of functions, and between the quantifier combination $\forall a \in X \, \exists b \in Y$ and the means by which b can be produced from a. Our general results seem to give us the ideal tool for investigating (the formal analogues) of these questions.

Constructive Continuity

Arnold Beckmann,Costas Dimitracopoulos,Benedikt Löwe

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Life in the Universe Joseph Seckbach,Julian Chela-Flores,Tobias Owen,François Raulin,2012-12-06 The year 2003 was the 50th anniversary of the seminal experiment of Stanley Miller This was a unique opportunity for highlighting the current interest in this most interdisciplinary subject The leading space agencies the European Space Agency ESA as well as NASA the American Space Agency have planned missions that will elucidate some of the still unknown questions underlying research in the origin of life New results are surpassing our ability to keep well informed the reviews that we were presented at the Trieste meeting will bring the readers of this well documented and timely book up to date in this fast moving area An important component of the conference was the review of the Cassini Huygens mission due to arrive in the Saturn system just one year after the conference convened in Trieste There was particular interest in the status of the experiments that will take place inside the atmosphere of Titan the large satellite which is a testing ground for the theories and experiments in the field of chemical evolution The Jovian system is currently under study with the view of investigating the possibility of life underneath the frozen surface of the Galilean moon Europa the ESA mission Mars Express and Mars Odyssey received special attention Some of the world leaders in the field gathered in Trieste in September 2003 that was a most timely date for reviewing recent data and discussing the prospects of future research Foundations of Constructive Mathematics M.J. Beeson,2012-12-06 This book is about some recent work in a subject usually considered part of logic and the foundations of mathematics but also having close connec tions with philosophy and computer science Namely the creation and study of formal systems for constructive mathematics The general organization of the book is described in the User s Manual which follows this introduction and the contents of the book are described in more detail in the introductions to Part One Part Two Part Three and Part Four This introduction has a different purpose it is intended to provide the reader with a general view of the subject This requires to begin with an elucidation of both the concepts mentioned in the phrase formal systems for constructive mathematics Con structive mathematics refers to mathematics in which when you prove that l a thing exists having certain desired properties you show how to find it Proof by contradiction is the most common way of proving something exists without showing how to find it one assumes that nothing exists with the desired properties and derives a contradiction It was only in the last two decades of the nineteenth century that mathematicians began to exploit this method of proof in ways that nobody had previously done that was partly made possible by the creation and development of set theory by Georg Cantor and Richard Dedekind Constructive Analysis E. Bishop,Douglas Bridges,2012-12-06 This work grew out of Errett Bishop s fundamental treatise Founda tions of Constructive Analysis FCA which appeared in 1967 and which contained the bountiful harvest of a remarkably short period of research by its author Truly FCA was an exceptional book not only because of the quantity of original material it contained but also as a demonstration of the practicability of a program which most ma thematicians believed impossible to carry out Errett s book went out of print shortly after its

publication and no second edition was produced by its publishers Some years later by a set of curious chances it was agreed that a new edition of FCA would be published by Springer Verlag the revision being carried out by me under Errett s supervision at the same time Errett gener ously insisted that I become a joint author The revision turned out to be much more substantial than we had anticipated and took longer than we would have wished Indeed tragically Errett died before the work was completed The present book is the result of our efforts Although substantially based on FCA it contains so much new material and such full revision and expansion of the old that it is essentially a new book For this reason and also to preserve the integrity of the original I decided to give our joint work a title of its own Most of the new material outside Chapter 5 originated with Errett   **Handbook of Constructive Mathematics** Douglas Bridges,Hajime Ishihara,Michael Rathjen,Helmut Schwichtenberg,2023-05-11 Constructive mathematics mathematics in which there exists always means we can construct is enjoying a renaissance fifty years on from Bishop s groundbreaking account of constructive analysis constructive mathematics has spread out to touch almost all areas of mathematics and to have profound influence in theoretical computer science This handbook gives the most complete overview of modern constructive mathematics with contributions from leading specialists surveying the subject s myriad aspects Major themes include constructive algebra and geometry constructive analysis constructive topology constructive logic and foundations of mathematics and computational aspects of constructive mathematics A series of introductory chapters provides graduate students and other newcomers to the subject with foundations for the surveys that follow Edited by four of the most eminent experts in the field this is an indispensable reference for constructive mathematicians and a fascinating vista of modern constructivism for the increasing number of researchers interested in constructive approaches   *Twelve Papers on Number Theory and Function Theory* A.O. Gel'Fond,V.L. Goncarov,V.K. Ivanov,I.P. Kubilyus,I.F. Lohin,1962-12-31   **Beyond Traditional Probabilistic Data Processing Techniques: Interval, Fuzzy etc. Methods and Their Applications** Olga Kosheleva,Sergey P. Shary,Gang Xiang,Roman Zapatrin,2020-02-28 Data processing has become essential to modern civilization The original data for this processing comes from measurements or from experts and both sources are subject to uncertainty Traditionally probabilistic methods have been used to process uncertainty However in many practical situations we do not know the corresponding probabilities in measurements we often only know the upper bound on the measurement errors this is known as interval uncertainty In turn expert estimates often include imprecise fuzzy words from natural language such as small this is known as fuzzy uncertainty In this book leading specialists on interval fuzzy probabilistic uncertainty and their combination describe state of the art developments in their research areas Accordingly the book offers a valuable guide for researchers and practitioners interested in data processing under uncertainty and an introduction to the latest trends and techniques in this area suitable for graduate students   **Reuniting the Antipodes - Constructive and Nonstandard Views of the Continuum** Peter Schuster,Ulrich Berger,Horst Osswald,2013-03-14 At first glance Robinson s original form of nonstandard

analysis appears nonconstructive in essence because it makes a rather unrestricted use of classical logic and set theory and in particular of the axiom of choice Recent developments however have given rise to the hope that the distance between constructive and nonstandard mathematics is actually much smaller than it appears So the time was ripe for the first meeting dedicated simultaneously to both ways of doing mathematics and to the current and future reunion of these seeming opposites Consisting of peer reviewed research and survey articles written on the occasion of such an event this volume offers views of the continuum from various standpoints Including historical and philosophical issues the topics of the contributions range from the foundations the practice and the applications of constructive and nonstandard mathematics to the interplay of these areas and the development of a unified theory **Logic and Theory of Algorithms** Arnold Beckmann,Costas Dimitracopoulos,Benedikt Löwe,2008-06-11 CiE 2008 Logic and Theory of Algorithms Athens Greece June 15 20 2008 Computability in Europe CiE is an informal network of European scientists working on computability theory including its foundations technical devel ment and applications Among the aims of the network is to advance our t oretical understanding of what can and cannot be computed by any means of computation Its scienti c vision is broad computations may be performed with discrete or continuous data by all kinds of algorithms programs and chines Computations may be made by experimenting with any sort of physical system obeying the laws of a physical theory such as Newtonian mechanics quantum theory or relativity Computations may be very general depending on the foundations of set theory or very speci c using the combinatorics of nite structures CiE also works on subjects intimately related to computation especially theories of data and information and methods for formal reasoning about computations The sources of new ideas and methods include practical developments in areas such as neural networks quantum computation natural computation molecular computation computational learning Applications are everywhere especially in algebra analysisand geometry or data types and p gramming Within CiE there is general recognition of the underlying relevance of computability to physics and a broad range of other sciences providing as it does a basic analysis of the causal structure of dynamical systems Thisvolume Logic andTheory of Algorithms istheproceedingsofthefourth in a series of conferences of CiE that was held at the University of Athens June 15 20 2008 *Impetus and Equipoise in the Life-Strategies of Reason* Anna-Teresa Tymieniecka,2000-12-31 Employing her original concept of the ontopoiesis of life the author uncovers the intrinsic law of the primogenital logos that which operates in the working of the indivisible dyad of impetus and equipoise This is the crucial intrinsically motivated device of logoic constructivism This key instrument is engaged is at play at every stage of the advance of life In a feat unprecedented in the history of western philosophy the emergence and unfolding of the entire orbit of the human universe is shown to bear out this insight Furthermore the intrinsic rhythms of impetus and equipoise are taken as a guide in uncovering the workings of the logos all at once in contrast to the piecemeal exposition of a single line of argument In a schema covering the entire career of beingness in becoming between the infinities of origin and destiny an historically unprecedented

harmonizing all sectors of rationality is accomplished in a span of reflection comparable to Spinoza s Ethics The work draws on interdisciplinary investigations in both science and the arts All of the history of Occidental philosophy finds summary in it even as feelers guidelines leitmotifs are thrown out for its future development A landmark of Occidental philosophy at the turn of the millennium   Current Trends In Theoretical Computer Science - Entering The 21st Century Gheorghe Paun,Grzegorz Rozenberg,Arto Salomaa,2001-02-12 The scientific developments at the end of the past millennium were dominated by the huge increase and diversity of disciplines with the common label computer science The theoretical foundations of such disciplines have become known as theoretical computer science This book highlights some key issues of theoretical computer science as they seem to us now at the beginning of the new millennium The text is based on columns and tutorials published in the Bulletin of the European Association for Theoretical Computer Science in the period 1995 2000 The columnists themselves selected the material they wanted for the book and the editors had a chance to update their work Indeed much of the material presented here appears in a form quite different from the original Since the presentation of most of the articles is reader friendly and does not presuppose much knowledge of the area the book constitutes suitable supplementary reading material for various courses in computer science   Handbook of Computability and Complexity in Analysis Vasco Brattka,Peter Hertling,2021-06-04 Computable analysis is the modern theory of computability and complexity in analysis that arose out of Turing s seminal work in the 1930s This was motivated by questions such as which real numbers and real number functions are computable and which mathematical tasks in analysis can be solved by algorithmic means Nowadays this theory has many different facets that embrace topics from computability theory algorithmic randomness computational complexity dynamical systems fractals and analog computers up to logic descriptive set theory constructivism and reverse mathematics In recent decades computable analysis has invaded many branches of analysis and researchers have studied computability and complexity questions arising from real and complex analysis functional analysis and the theory of differential equations up to geometric measure theory and topology This handbook represents the first coherent cross section through most active research topics on the more theoretical side of the field It contains 11 chapters grouped into parts on computability in analysis complexity dynamics and randomness and constructivity logic and descriptive complexity All chapters are written by leading experts working at the cutting edge of the respective topic Researchers and graduate students in the areas of theoretical computer science and mathematical logic will find systematic introductions into many branches of computable analysis and a wealth of information and references that will help them to navigate the modern research literature in this field   *Exogenous Factors in Colonic Carcinogenesis* W. Scheppach,M. Scheurlen,2003-01-31 This book is the proceedings of Falk Symposium 128 held in W rzburg Germany on May 2 3 2002 and dedicated to the important issue of colonic carcinogenesis and its underlying genetic and environmental factors Colorectal cancer is one of the leading causes of cancer related death in industrialized countries It has been recognized to be the consequence of a

dynamic process leading from hyperproliferative epithelium through different classes of adenomas to invasive carcinoma This adenoma carcinoma sequence has been characterized on a molecular basis Modern molecular biology has also helped to clarify the clustering of colorectal cancer within families a phenomenon that has been known to clinicians for a long time Thus the pathogenesis of the two distinct familial colon cancer syndromes FAP familial adenomatous polyposis and HNPCC hereditary non polyposis colorectal cancer is increasingly being understood Thereby an identification of affected people has become possible before the disease has manifested There is also convincing evidence that the pathogenesis of sporadic colonic cancer is modulated by environmental mainly nutritional factors Carcinogens seem to be far less important than the components of the normal human diet It is likely that the interplay between protective and noxious dietary compounds determines the progression of the adenoma carcinoma sequence Additionally a broad spectrum of drugs has been shown to affect colonic tumorigenesis which provides the rationale for chemoprevention strategies These issues set the scene for discussions on how genetic and environmental factors may interact in the pathogenesis of colonic cancer contributing fresh ideas to the prevention of this most prevalent malignancy in the industrialized world **Combinatorics, Computability and Logic** C.S. Calude,M.J. Dinneen,S. Sburlan,2012-12-06 This volume contains the papers presented at the Third Discrete Mathematics and Theoretical Computer Science Conference DMTCS1 which was held at Ovidius University Constantza Romania in July 2001 The conference was open to all areas of discrete mathematics and theoretical computer science and the papers contained within this volume cover topics such as abstract data types and specifications algorithms and data structures automata and formal languages computability complexity and constructive mathematics discrete mathematics combinatorial computing and category theory logic nonmonotonic logic and hybrid systems molecular computing Logical Approaches to Computational Barriers Arnold Beckmann,2006-06-26 This book constitutes the refereed proceedings of the Second International Conference on Computability in Europe CiE 2006 held in Swansea UK June July 2006 The book presents 31 revised full papers together with 30 invited papers including papers corresponding to 8 plenary talks and 6 special sessions on proofs and computation computable analysis challenges in complexity foundations of programming mathematical models of computers and hypercomputers and G del centenary G del s legacy for computability **Real Numbers, Generalizations of the Reals, and Theories of Continua** P. Ehrlich,2013-06-29 Since their appearance in the late 19th century the Cantor Dedekind theory of real numbers and philosophy of the continuum have emerged as pillars of standard mathematical philosophy On the other hand this period also witnessed the emergence of a variety of alternative theories of real numbers and corresponding theories of continua as well as non Archimedean geometry non standard analysis and a number of important generalizations of the system of real numbers some of which have been described as arithmetic continua of one type or another With the exception of E W Hobson s essay which is concerned with the ideas of Cantor and Dedekind and their reception at the turn of the century the papers in the present collection are either concerned with or are

contributions to the latter groups of studies All the contributors are outstanding authorities in their respective fields and the essays which are directed to historians and philosophers of mathematics as well as to mathematicians who are concerned with the foundations of their subject are preceded by a lengthy historical introduction **Life Energies, Forces and the Shaping of Life: Vital, Existential** Anna-Teresa Tymieniecka,2012-12-06 The nature of life consists in a constructive becoming see Analecta Husserliana vol 70 Though caught up in its relatively stable stationary intervals manifesting the steps of its accomplishments that our attention is fixed In this selection of studies we proceed in contrast to envisage life in the Aristotelian perspective in which energia forces and dynamisms of life at work are at the fore Startling questions emerge what distinction could be drawn between the prompting forces of life and its formation Or is this distinction a result of our transcendental faculties The answers to these questions reveal themselves as Tymieniecka proposes at the phenomenologically ontopoietic level of life s origination where transcendentality surges **Logical Foundations of Computer Science** Sergei Artemov,Anil Nerode,2021-12-16 This book constitutes the refereed proceedings of the International Symposium on Logical Foundations of Computer Science LFCS 2022 held in Deerfield Beach FL USA in January 2022 The 23 revised full papers were carefully reviewed and selected from 35 submissions The scope of the Symposium is broad and includes constructive mathematics and type theory homotopy type theory logic automata and automatic structures computability and randomness logical foundations of programming logical aspects of computational complexity parameterized complexity logic programming and constraints automated deduction and interactive theorem proving logical methods in protocol and program verification logical methods in program specification and extraction domain theory logics logical foundations of database theory equational logic and term rewriting lambda and combinatory calculi categorical logic and topological semantics linear logic epistemic and temporal logics intelligent and multiple agent system logics logics of proof and justification non monotonic reasoning logic in game theory and social software logic of hybrid systems distributed system logics mathematical fuzzy logic system design logics other logics in computer science **Computer Science Logic** Peter Clote,European Association for Computer Science Logic. Conference,2000 This book constitutes the refereed proceedings of the 13th International Workshop on Computer Science Logic CSL 2000 held in Fischbachau Germany as the 8th Annual Conference of the EACSL in August 2000 The 28 revised full papers presented together with eight invited papers were carefully reviewed and selected by the program committee Among the topics covered are automated deduction theorem proving categorical logic term rewriting finite model theory higher order logic lambda and combinatory calculi computational complexity logic programing constraints linear logic modal logic temporal logic model checking formal specification formal verification program transformation etc **ICBAE 2020** Bima Cinintya Pratama,Naelati Tubastuvi,Suryo Budi Santoso,Azmi Fitriati,Robbi Rahim,2020-10-15 The 2nd International Conference of Business Accounting and Economics ICBAE 2020 continued the agenda to bring together researcher academics experts and professionals in examining selected theme by

applying multidisciplinary approaches This conference is the second intentional conference held by Faculty of Economics and Business Universitas Muhammadiyah Purwokerto and it is a bi annual agenda of this faculty In 2020 this event will be held in 5 6 August at Faculty of Economics and Business Universitas Muhammadiyah Purwokerto The theme of the 2nd ICBAE UMP 2020 is Economics Strength Entrepreneurship and Hospitality for Infinite Creativity Towards Sustainable Development Goals SDGs It is expected that this event may offer contribution for both academics and practitioners to conduct researches related with Business Accounting and Economics Related Studies Each contributed paper was refereed before being accepted for publication The double blind peer reviewed was used in the paper selection **Horace M. Kallen in the Heartland** Michael C. Steiner,2020-05-01 The Harvard educated Jewish American philosopher Horace Meyer Kallen 1882 1974 is commonly credited with the concept of cultural pluralism which envisioned immigrant and minority groups cultivating their distinctive social worlds and interacting to create an inclusive ever changing true American culture Though living and teaching in Madison Wisconsin when he developed this influential theory Kallen s seven year sojourn in the Midwest 1911 1918 rarely figures in accounts of the theory s origins And yet Michael C Steiner suggests the Midwest far from being a mere interruption in Kallen s thought was in fact the essential catalyst for the theory of cultural pluralism a concept that continues to shape public debate a century later The Midwest in the first decades of the twentieth century was a youthful region experiencing massive immigration and the xenophobic fervor of approaching war In this milieu Steiner locates a pervasive pluralist zeitgeist rife with urban and rural based intellectuals and public figures deeply critical of both the all absorbing melting pot ideology and white racist Anglo Saxon exclusionism Early proponents of diversity who interacted with Kallen to forge a pluralist sensibility and ideology as the Midwest was becoming the nation s dominant region included public figures Hamlin Garland Frederick Jackson Turner and Jane Addams African American activists Reverdy Ransom and Ida B Wells Norwegian American writers Ole E R lvaag and Waldemar Ager and intellectuals Randolph Bourne and John Dewey Tracing how Kallen s interaction with these figures and his regional experience expanded his vision and added the final touch and crucial spatial dimension to his theory Horace M Kallen in the Heartland enhances our understanding of cultural pluralism The book has direct bearing on the present as once again denunciation of diversity and mass migration challenge the tenets and advocates of pluralism

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