

The Limit of Turing Theory of the Halting Problem and Gödel Incompleteness Theorems

Rongqing Dai, Ph.D.

1. The Background

Turing halting problem (usually just called as halting problem, which this article would serve to prove improper) and Gödel incompleteness theorems have become lofty elements of nowadays world culture so that we could frequently see their citations in both serious scholastic theses and popular writings in all areas of social life. They have been, along with some other similar theories, the symbols of the enlightenment concerning our self-awareness about the intrinsic defects in our historically-assumed perfect logical system.

However, although those theories are undoubtedly great contributions to humanity, their actual roles in real life practices of either logical thinking or computer-related tasks are far less influential than their reputations stand for. A semantic subtlety behind this global phenomenon is the resemblance between the concept of “the whole set of all” and “all of the whole set”. While both the Turing theory about the halting problem and the Gödel theorems only apply to the whole set, they have been widely and confusingly presented as a general truth that would apply to all members of the relevant set. This article would analyze the reason behind the global misconception about the roles of Turing halting problem and Gödel theorems as well as a whole family of the relevant theories in human civilization.

2. Turing Halting Problem

As a famous computability problem, Turing’s halting problem could be described in different ways, and one simple way in plain English goes like this¹:

The halting problem is the problem of determining, from a description of an arbitrary computer program and an input, whether the program will finish running, or continue to run forever. Alan Turing proved in 1936 that a general algorithm to solve the halting problem for all possible program-input pairs cannot exist.

Despite that the Turing halting problem has been given a great weight by academics not only for the foundation of computer science but also for philosophy in general, and despite that whether a program can finish running normally or be halted infinitively is the one of most common concerns for any professional who would write computer programs and run them on computers, people don’t really use or need the Turing theory of the halting problem for daily practices with computer software and hardware or any other practices in any area except for the teaching and theoretical discussions of the theory itself or other theories with similar nature.

We could sense the weight of the Turing halting problem theory in our civilization through the volume of text that has been devoted to the introduction, demonstration, further proof, and application of the theory in various theoretical fashions, as well as in popular culture including

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Thinking about Godel and Turing Gregory J. Chaitin, 2007 Dr Gregory Chaitin one of the world's leading mathematicians is best known for his discovery of the remarkable number a concrete example of irreducible complexity in pure mathematics which shows that mathematics is infinitely complex In this volume Chaitin discusses the evolution of these ideas tracing them back to Leibniz and Borel as well as Godel and Turing This book contains 23 non technical papers by Chaitin his favorite tutorial and survey papers including Chaitin's three Scientific American articles These essays summarize a lifetime effort to use the notion of program size complexity or algorithmic information content in order to shed further light on the fundamental work of Godel and Turing on the limits of mathematical methods both in logic and in computation Chaitin argues here that his information theoretic approach to metamathematics suggests a quasi empirical view of mathematics that emphasizes the similarities rather than the differences between mathematics and physics He also develops his own brand of digital philosophy which views the entire universe as a giant computation and speculates that perhaps everything is discrete software everything is 0's and 1's Chaitin's fundamental mathematical work will be of interest to philosophers concerned with the limits of knowledge and to physicists interested in the nature of complexity *Thinking About Godel And Turing: Essays On Complexity, 1970-2007* Gregory J Chaitin, 2007-08-06

Dr Gregory Chaitin one of the world's leading mathematicians is best known for his discovery of the remarkable number a concrete example of irreducible complexity in pure mathematics which shows that mathematics is infinitely complex In this volume Chaitin discusses the evolution of these ideas tracing them back to Leibniz and Borel as well as Godel and Turing This book contains 23 non technical papers by Chaitin his favorite tutorial and survey papers including Chaitin's three Scientific American articles These essays summarize a lifetime effort to use the notion of program size complexity or algorithmic information content in order to shed further light on the fundamental work of Godel and Turing on the limits of mathematical methods both in logic and in computation Chaitin argues here that his information theoretic approach to metamathematics suggests a quasi empirical view of mathematics that emphasizes the similarities rather than the differences between mathematics and physics He also develops his own brand of digital philosophy which views the entire universe as a giant computation and speculates that perhaps everything is discrete software everything is 0's and 1's Chaitin's fundamental mathematical work will be of interest to philosophers concerned with the limits of knowledge and to physicists interested in the nature of complexity **Thinking on the Web** H. Peter

Alesso, Craig F. Smith, 2006-09-12 What Is Thinking What is Turing's Test What is Godel's Undecidability Theorem How is Berners Lee's Semantic Web logic going to overcome paradoxes and complexity to produce machine processing on the Web Thinking on the Web draws from the contributions of Tim Berners Lee What is solvable on the Web Kurt Godel What is decidable and Alan Turing What is machine intelligence to evaluate how much intelligence can be projected onto the Web The authors offer both abstract and practical perspectives to delineate the opportunities and challenges of a smarter Web

through a threaded series of vignettes and a thorough review of Semantic Web development

Thinking On The Web: Berners-Lee, Godel And Turing H. P. Alesso, Craig Forsythe Smith, 2009-11-10 This book creates a vision of how solvable problems can be logically addressed on the Web to produce a semblance of machine intelligence The unique advantage of this book is that while it addresses these sophisticated AI concepts for the Web it presents the material at a level appropriate for the general tech savvy audience It also offers professional Web and software developers insight into the next generation Web architectures and AI technologies The professional access to tools software and demos that enriches the book s presentations and which would be too advanced for the layman Professionals will also benefit through the insights of connecting multiple AI concepts over the breadth of coverage and gaining an appreciation of which AI areas are worthwhile to pursue Part II Web Ontology and Logic Part I What is Web Intelligence

Kurt Gödel and the Foundations of Mathematics Matthias Baaz, Christos H. Papadimitriou, Hilary W. Putnam, Dana S. Scott, Charles L. Harper, Jr, 2011-06-06 This volume commemorates the life work and foundational views of Kurt Gödel 1906-78 most famous for his hallmark works on the completeness of first order logic the incompleteness of number theory and the consistency with the other widely accepted axioms of set theory of the axiom of choice and of the generalized continuum hypothesis It explores current research advances and ideas for future directions not only in the foundations of mathematics and logic but also in the fields of computer science artificial intelligence physics cosmology philosophy theology and the history of science The discussion is supplemented by personal reflections from several scholars who knew Gödel personally providing some interesting insights into his life By putting his ideas and life s work into the context of current thinking and perceptions this book will extend the impact of Gödel s fundamental work in mathematics logic philosophy and other disciplines for future generations of researchers

Limits Of Mathematical Modeling In The Social Sciences, The: The Significance Of Gödel's Incompleteness Phenomenon Francisco Antonio Doria, 2017-05-30 Current mathematical models are notoriously unreliable in describing the time evolution of unexpected social phenomena from financial crashes to revolution Can such events be forecast Can we compute probabilities about them Can we model them This book investigates and attempts to answer these questions through Gödel s two incompleteness theorems and in doing so demonstrates how influential Gödel is in modern logical and mathematical thinking Many mathematical models are applied to economics and social theory while Gödel s theorems are able to predict their limitations for more accurate analysis and understanding of national and international events This unique discussion is written for graduate level mathematicians applying their research to the social sciences including economics social studies and philosophy and also for formal logicians and philosophers of science

Concepts for Neural Networks Lawrence J. Landau, 2012-12-06 Concepts for Neural Networks A Survey provides a wide ranging survey of concepts relating to the study of neural networks It includes chapters explaining the basics of both artificial neural networks and the mathematics of neural networks as well as chapters covering the more philosophical background to the topic and

consciousness There is also significant emphasis on the practical use of the techniques described in the area of robotics Containing contributions from some of the world s leading specialists in their fields including Dr Ton Coolen and Professor Igor Aleksander this volume will provide the reader with a good general introduction to the basic concepts needed to understand and use neural network technology

Complex Systems and Binary Networks Ramon Lopez-Pena,Riccardo Capovilla,Ricardo Garcia-Pelayo,Henri Waelbroeck,Federico Zertuche,1995-10-09 The five contributions describe some key mathematical concepts involved in the study of complex systems and non perturbative problems The selection of topics is intended to cross fertilize the various fields where complex systems theory has made an impact The book presents specific and detailed results meant for a wide audience of researchers and students It begins with those contributions which help to set up a general theoretical framework and ends with selected applications to the particular areas of biophysics statistical physics astrophysics and cosmology It also includes an extensive bibliography This pedagogically written text can be used as an introduction to the fundamental ideas behind complex systems theory

The Limits of Mathematics Gregory J. Chaitin,1998 This book presents the final version of Chaitin s course on the limits of mathematical reasoning This course uses algorithmic information theory to show that mathematics has serious limitations and features a new more didactic approach to algorithmic information theory using LISP and Mathematica software The thesis of the book is that the incompleteness phenomenon discovered by Godel is much more widespread and serious than hitherto suspected

Finite Versus Infinite Cristian S. Calude,Gheorghe Paun,2000-02-25 These recent developments also open up new questions of debate including What is the role played by randomness Are computers capable of handling the infinite through unconventional media of computation How can one approximate efficiently the finite by the infinite and conversely the infinite by the finite Well known authors from around the world many of them architects of the mathematics and computer science for the new century contribute to this volume While mathematical in spirit contributions have many connections with computer science cognitive science linguistics philosophy physics biology and semiotics

Jacket Machines that Think Toby Walsh,2018 A scientist who has spent a career developing Artificial Intelligence takes a realistic look at the technological challenges and assesses the likely effect of AI on the future How will Artificial Intelligence AI impact our lives Toby Walsh one of the leading AI researchers in the world takes a critical look at the many ways in which thinking machines will change our world Based on a deep understanding of the technology Walsh describes where Artificial Intelligence is today and where it will take us Will automation take away most of our jobs Is a technological singularity near What is the chance that robots will take over How do we best prepare for this future The author concludes that if we plan well AI could be our greatest legacy the last invention human beings will ever need to make

Machines and Thought P. J. R. Millican,A. Clark,1996-11-28 This is the first of two volumes of essays in commemoration of Alan Turing whose pioneering work in the theory of artificial intelligence and computer science continues to be widely discussed today A group of prominent academics from a wide range of disciplines

focus on three questions famously raised by Turing What if any are the limits on machine thinking Could a machine be genuinely intelligent Might we ourselves be biological machines whose thought consists essentially in nothing more than the interaction of neurons according to strictly determined rules The discussion of these fascinating issues is accessible to non specialists and stimulating for all readers **Nature's Imagination** John Cornwell,1995 This collection from a 1992 symposium explores how and why mathematicians astronomers neuroscientists and philosophers are moving beyond classic reductionism toward a new paradigm that accounts for the whole and emphasizes events and relationships Essays examine the irreducibility of mathematics the incompleteness theorem consciousness and the mind body problem and the social implications of artificial intelligence For scientists philosophers students and adventurous readers Annotation copyright by Book News Inc Portland OR Questioning Matters KOLAK,1999-09 **Philosophy of Mind** Dale Jacquette,1994 A balanced survey of the most important historical and contemporary topics in the philosophy of mind **Yearbook ... of the Kurt Gödel Society** ,1989 On Gödel Jaakko Hintikka,2000 This brief text assists students in understanding Gödel's philosophy and thinking so that they can more fully engage in useful intelligent class dialogue and improve their understanding of course content Part of the Wadsworth Philosophers Series which will eventually consist of approximately 100 titles each focusing on a single thinker from ancient times to the present ON GODEL is written by a philosopher deeply versed in the philosophy of this key thinker Like other books in the series this concise book offers sufficient insight into the thinking of a notable philosopher better enabling students to engage in the reading and to discuss the material in class and on paper *Philosophical Explorations of the Legacy of Alan Turing* Juliet Floyd,Alisa Bokulich,2017-05-30 Chapters Turing and Free Will A New Take on an Old Debate and Turing and the History of Computer Music are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com **American Scientist** ,1942

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Table of Contents Thinking About Godel And Turing Thinking About Godel And Turing

1. Understanding the eBook Thinking About Godel And Turing Thinking About Godel And Turing
 - The Rise of Digital Reading Thinking About Godel And Turing Thinking About Godel And Turing
 - Advantages of eBooks Over Traditional Books
2. Identifying Thinking About Godel And Turing Thinking About Godel And Turing
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Thinking About Godel And Turing Thinking About Godel And Turing

- User-Friendly Interface
- 4. Exploring eBook Recommendations from Thinking About Godel And Turing Thinking About Godel And Turing
 - Personalized Recommendations
 - Thinking About Godel And Turing Thinking About Godel And Turing User Reviews and Ratings
 - Thinking About Godel And Turing Thinking About Godel And Turing and Bestseller Lists
- 5. Accessing Thinking About Godel And Turing Thinking About Godel And Turing Free and Paid eBooks
 - Thinking About Godel And Turing Thinking About Godel And Turing Public Domain eBooks
 - Thinking About Godel And Turing Thinking About Godel And Turing eBook Subscription Services
 - Thinking About Godel And Turing Thinking About Godel And Turing Budget-Friendly Options
- 6. Navigating Thinking About Godel And Turing Thinking About Godel And Turing eBook Formats
 - ePub, PDF, MOBI, and More
 - Thinking About Godel And Turing Thinking About Godel And Turing Compatibility with Devices
 - Thinking About Godel And Turing Thinking About Godel And Turing Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Thinking About Godel And Turing Thinking About Godel And Turing
 - Highlighting and Note-Taking Thinking About Godel And Turing Thinking About Godel And Turing
 - Interactive Elements Thinking About Godel And Turing Thinking About Godel And Turing
- 8. Staying Engaged with Thinking About Godel And Turing Thinking About Godel And Turing
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Thinking About Godel And Turing Thinking About Godel And Turing
- 9. Balancing eBooks and Physical Books Thinking About Godel And Turing Thinking About Godel And Turing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Thinking About Godel And Turing Thinking About Godel And Turing
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Thinking About Godel And Turing Thinking About Godel And Turing
 - Setting Reading Goals Thinking About Godel And Turing Thinking About Godel And Turing

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Thinking About Godel And Turing Thinking About Godel And Turing
 - Fact-Checking eBook Content of Thinking About Godel And Turing Thinking About Godel And Turing
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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