

# BEHIND DEEP BLUE

BUILDING THE COMPUTER THAT DEFEATED  
THE WORLD CHESS CHAMPION

FENG-HSIUNG HSU

# Behind Deep Blue

**G Orfield**



## **Behind Deep Blue:**

**Behind Deep Blue** Feng-hsiung Hsu,2022-05-03 The riveting quest to construct the machine that would take on the world's greatest human chess player told by the man who built it On May 11 1997 millions worldwide heard news of a stunning victory as a machine defeated the defending world chess champion Garry Kasparov Behind Deep Blue tells the inside story of the quest to create the mother of all chess machines and what happened at the two historic Deep Blue vs Kasparov matches Feng hsiung Hsu the system architect of Deep Blue reveals how a modest student project started at Carnegie Mellon in 1985 led to the production of a multimillion dollar supercomputer Hsu discusses the setbacks tensions and rivalries in the race to develop the ultimate chess machine and the wild controversies that culminated in the final triumph over the world's greatest human player With a new foreword by Jon Kleinberg and a new preface from the author Behind Deep Blue offers a remarkable look at one of the most famous advances in artificial intelligence and the brilliant toolmaker who invented it

**Kasparov versus Deep Blue** Monty Newborn,2012-12-06 In February 1996 a chess playing computer known as Deep Blue made history by defeating the reigning world chess champion Gary Kasparov in a game played under match conditions Kasparov went on to win the six game match 4 2 and at the end of the match announced that he believed that chess computing had come of age This book provides an enthralling account of the match and of the story that lies behind it the evolution of chess playing computers and the development of Deep Blue The story of chess playing computers goes back a long way and the author provides a whistlestop tour of the highlights of this history As the development comes to its culmination in Philadelphia we meet the Deep Blue team Garry Kasparov and each of the historic six games is provided in full with a detailed commentary Chess grandmaster Yasser Seirawan provided a lively commentary throughout the match and here provides a Foreword about the significance of this event

**How Smart Machines Think** Sean Gerrish,2019-10-22 Everything you want to know about the breakthroughs in AI technology machine learning and deep learning as seen in self driving cars Netflix recommendations and more The future is here Self driving cars are on the streets an algorithm gives you movie and TV recommendations IBM's Watson triumphed on Jeopardy over puny human brains computer programs can be trained to play Atari games But how do all these things work In this book Sean Gerrish offers an engaging and accessible overview of the breakthroughs in artificial intelligence and machine learning that have made today's machines so smart Gerrish outlines some of the key ideas that enable intelligent machines to perceive and interact with the world He describes the software architecture that allows self driving cars to stay on the road and to navigate crowded urban environments the million dollar Netflix competition for a better recommendation engine which had an unexpected ending and how programmers trained computers to perform certain behaviors by offering them treats as if they were training a dog He explains how artificial neural networks enable computers to perceive the world and to play Atari video games better than humans He explains Watson's famous victory on Jeopardy and he looks at how computers play games describing AlphaGo and

Deep Blue which beat reigning world champions at the strategy games of Go and chess Computers have not yet mastered everything however Gerrish outlines the difficulties in creating intelligent agents that can successfully play video games like StarCraft that have evaded solution at least for now Gerrish weaves the stories behind these breakthroughs into the narrative introducing readers to many of the researchers involved and keeping technical details to a minimum Science and technology buffs will find this book an essential guide to a future in which machines can outsmart people

**Reasoning** Daniel Krawczyk, 2017-11-13 Reasoning The Neuroscience of How We Think is a comprehensive guide to the core topics related to a thorough understanding of reasoning It presents the current knowledge of the subject in a unified complete manner ranging from animal studies to applied situations and is the only book available that presents a sustained focus on the neurobiological processes behind reasoning throughout all chapters while also synthesizing research from animal behavior cognitive psychology development and philosophy for a truly multidisciplinary approach The book considers historical perspectives state of the art research methods and future directions in emerging technology and cognitive enhancement Written by an expert in the field this book provides a coherent and structured narrative appropriate for students in need of an introduction to the topic of reasoning as well as researchers seeking well rounded foundational content It is essential reading for neuroscientists cognitive scientists neuropsychologists and others interested in the neural mechanisms behind thinking reasoning and higher cognition Provides a comparative perspective considering animal cognition and its relevance to human reasoning Includes developmental and lifespan considerations throughout the book Discusses technological development and its role in reasoning both currently and in the future Considers perspectives from not only neuroscience but cognitive psychology philosophy development and animal behavior for a multidisciplinary treatment Contains highlight boxes featuring additional details on methods historical descriptions and experimental tasks

**Chips Challenging Champions** H.J. van den Herik, 2002-05 One of the earliest dreams of the fledgling field of artificial intelligence AI was to build computer programs that could play games as well as or better than the best human players Despite early optimism in the field the challenge proved to be surprisingly difficult However the 1990s saw amazing progress Computers are now better than humans in checkers Othello and Scrabble are at least as good as the best humans in backgammon and chess and are rapidly improving at hex go poker and shogi This book documents the progress made in computers playing games and puzzles The book is the definitive source for material of high performance game playing programs

**AI UNPLUGGED: A TEENAGER'S TAKE ON THE FUTURE** Advait Kothuri, Artificial Intelligence AI is everywhere It s in the way we ask our phones for directions the recommendations we see when shopping online and even in the medical breakthroughs that save lives To many AI feels like an intimidating complex field reserved for experts with years of experience I don t see it that way I m Advait Kothuri a 15 year old passionate about AI and this book is my attempt to make AI accessible to everyone young or old tech savvy or not AI is not just for engineers or scientists it s for anyone who wants to understand the world around them

in a new way When I first tried explaining AI to my 80 year old grandfather he didn't understand it It's just something computers do right he asked But as I gave him simple real-life examples like how his smartphone automatically corrects his words or how YouTube suggests videos based on what he likes he started to see AI all around him That was an eye-opening moment for me If I could make AI relatable to my grandfather why not to everyone This book is structured around that very idea Inspired by the storytelling style of Slumdog Millionaire where the protagonist's life experiences help him answer complex questions I've connected AI concepts to everyday moments while growing up Whether it's recognizing patterns in a soccer game understanding bias in algorithms through daily interactions or seeing how AI can help detect arthritis early this book is designed to make AI feel intuitive and approachable Since this book is about AI and covers a lot of Generative AI GenAI I wanted to immerse myself in the technology as much as possible Every single image in this book including those for each chapter and the cover page has been created using AI-powered tools such as OpenAI's DALL-E and Perplexity AI Additionally I have used AI models such as Anthropic's Claude OpenAI's ChatGPT Google's Gemini and Perplexity AI to generate large amounts of text refine ideas and explore various perspectives This was not just an exercise in automation but a way to demonstrate the creative and practical capabilities of AI firsthand This is not just a book for students or engineers it's for parents teachers business owners and anyone curious about AI but unsure where to start AI is already shaping our world and understanding it is no longer optional it's essential AI isn't magic or a mystery it's simply another tool that when understood can empower all of us in ways we never imagined The future of AI doesn't belong to just a few it belongs to all of us Whether you're 15 or 80 tech-savvy or not I hope this book helps you see AI in a whole new light Let's explore it together

**Catalogue** National Gallery (Great Britain),1925      **Catalogue of the Pictures** National Gallery (Great Britain),1921

**Artificial Intelligence** Robert H. Chen,Chelsea Chen,2022-06-10 Artificial Intelligence An Introduction for the Inquisitive Reader guides readers through the history and development of AI from its early mathematical beginnings through to the exciting possibilities of its potential future applications To make this journey as accessible as possible the authors build their narrative around accounts of some of the more popular and well-known demonstrations of artificial intelligence including Deep Blue AlphaGo and even Texas Hold'em followed by their historical background so that AI can be seen as a natural development of mathematics and computer science As the book moves forward more technical descriptions are presented at a pace that should be suitable for all levels of readers gradually building a broad and reasonably deep understanding and appreciation for the basic mathematics physics and computer science that is rapidly developing artificial intelligence as it is today Features Only mathematical prerequisite is an elementary knowledge of calculus Accessible to anyone with an interest in AI and its mathematics and computer science Suitable as a supplementary reading for a course in AI or the History of Mathematics and Computer Science in regard to artificial intelligence      Evolutionary Computation David B. Fogel,2006-09-18 This Third Edition provides the latest tools and techniques that enable computers to learn The

Third Edition of this internationally acclaimed publication provides the latest theory and techniques for using simulated evolution to achieve machine intelligence As a leading advocate for evolutionary computation the author has successfully challenged the traditional notion of artificial intelligence which essentially programs human knowledge fact by fact but does not have the capacity to learn or adapt as evolutionary computation does Readers gain an understanding of the history of evolutionary computation which provides a foundation for the author s thorough presentation of the latest theories shaping current research Balancing theory with practice the author provides readers with the skills they need to apply evolutionary algorithms that can solve many of today s intransigent problems by adapting to new challenges and learning from experience Several examples are provided that demonstrate how these evolutionary algorithms learn to solve problems In particular the author provides a detailed example of how an algorithm is used to evolve strategies for playing chess and checkers As readers progress through the publication they gain an increasing appreciation and understanding of the relationship between learning and intelligence Readers familiar with the previous editions will discover much new and revised material that brings the publication thoroughly up to date with the latest research including the latest theories and empirical properties of evolutionary computation The Third Edition also features new knowledge building aids Readers will find a host of new and revised examples New questions at the end of each chapter enable readers to test their knowledge Intriguing assignments that prepare readers to manage challenges in industry and research have been added to the end of each chapter as well This is a must have reference for professionals in computer and electrical engineering it provides them with the very latest techniques and applications in machine intelligence With its question sets and assignments the publication is also recommended as a graduate level textbook

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## **Behind Deep Blue** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Behind Deep Blue**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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### **Table of Contents Behind Deep Blue**

1. Understanding the eBook Behind Deep Blue
  - The Rise of Digital Reading Behind Deep Blue
  - Advantages of eBooks Over Traditional Books
2. Identifying Behind Deep Blue
  - 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 eBook Platform
  - User-Friendly Interface
4. Exploring eBook Recommendations from Behind Deep Blue
  - Personalized Recommendations
  - Behind Deep Blue User Reviews and Ratings
  - Behind Deep Blue and Bestseller Lists
5. Accessing Behind Deep Blue Free and Paid eBooks

- Behind Deep Blue Public Domain eBooks
  - Behind Deep Blue eBook Subscription Services
  - Behind Deep Blue Budget-Friendly Options
6. Navigating Behind Deep Blue eBook Formats
    - ePub, PDF, MOBI, and More
    - Behind Deep Blue Compatibility with Devices
    - Behind Deep Blue Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Behind Deep Blue
    - Highlighting and Note-Taking Behind Deep Blue
    - Interactive Elements Behind Deep Blue
  8. Staying Engaged with Behind Deep Blue
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Behind Deep Blue
  9. Balancing eBooks and Physical Books Behind Deep Blue
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Behind Deep Blue
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Behind Deep Blue
    - Setting Reading Goals Behind Deep Blue
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Behind Deep Blue
    - Fact-Checking eBook Content of Behind Deep Blue
    - 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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