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How the Quest For the Ultimate Learning Machine Will Remake Our World. According to Pedro Domingos, one of the greatest mysteries of the universe is not how it begins or ends, or what infinitesimal threads it's woven from, it's what goes on in a small child's mind: how a pound of gray jelly can grow into a seat of consciousness. Even more astonishing is how little role parents play in teaching the brain to go through this transformation, as it largely does it all on its own. Today, scientists, computer engineers, and more are working towards a machine that can do exactly what the human brain does: learn. With all the technology of today, machines may one day even become smarter than the human brain. Computers can learn from large sets of data that we may not even realize is getting collected. This means that our future can be run by technology, changing the way we live and interact with each other. As you read, you'll learn how machines will one day be like the human brain, how there is no such thing as a perfect algorithm, and how a Master Algorithm is on its way to being created.

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From the successful application of deep learning (DL) in AlphaGo in 2012 to the recent advances in edge computing, artificial intelligence (AI) has continued to develop over the years. In the face of the current sweeping trend of AI, ensemble learning (EL) is expected to be further applied to DL and AI for developing higher-level ensemble systems in the future. Moreover, it could become an important step for achieving "The Master Algorithm" proposed by Prof. Pedro Domingos. In light of this, EL will continue to make a significant contribution to future development. The purpose of this book is to provide insights into EL for readers not majoring in computer science or related subjects, introduce the latest development and applications of EL; in particular, share its practical applications in various fields. Accordingly, this book intends to present theoretical parts relating to mathematics and computing in a simple and concise manner. The examples and practical use of EL have been used to explain methods that utilize EL to solve readers' issues in their fields, which demonstrates the essence of EL for practical applications. While many AI and ML books are available on the market, most require a certain level of mathematical and machine learning (ML) knowledge. Complicated theories of mathematics and computation may be intimidating for people without a background in computer science and engineering, such as biological and medical

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researchers. It would be unfortunate if they were to miss the opportunity to use EL as a practical tool to solve data analysis problems at hand. Moreover, EL is usually introduced in the later or advanced chapters of AI and ML books. Beginners in ML, or readers without a technical background, are likely to be frustrated by mathematical or technical terms that only appear occasionally in the book or be anxious about complicated mathematical and computational theories related to classification algorithms. It would be regrettable if they were intimidated, and therefore, missed the opportunity to learn and use EL. From a practical perspective, existing classification techniques, such as decision trees with the C4.5 algorithm, support vector machines, and neural networks are now relatively mature and have been proven to be effective. For readers without a technical background, it is not essential to understand the complicated mathematical and computational theories behind the above techniques. Instead, it is recommended to grasp the logic and meaning of parameters in these classification algorithms and directly conduct tests using EL. Learning through practice can help readers to establish computational thinking. It is the best approach to learning EL, ML, AI, and DL. Furthermore, this book provides references and recommended reading for each technique to satisfy the curiosity of some readers with regard to

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mathematical theories and algorithms so that they can acquire further knowledge and answer their questions. Finally, the hope is that readers can be made aware, through practical use of EL, that they can build a robust ensemble system and solve problems in their areas without having to learn the absolute details of specific ML algorithms and mathematics behind the algorithms. This book provides insights into EL from worldwide experts and scholars in various fields. This book extensively introduces and discusses the application of EL in various fields and the current and future research directions of its novel applications. It also reviews some of the more popular areas in which EL has received widespread attention in recent years in the ML and AI. Each chapter opens with an introduction to ML and EL techniques, and then, analyzes the applications of EL in different fields, such as signal and image processing, medical care, education, geology, and agriculture. More than two experts and scholars in related fields acted as reviewers for the peer review of each chapter. It is hoped that these applications in various fields can inspire readers to use EL in practice.

Chinese edition of SUM: Forty Tales from the Afterlives. A neuroscientist writes 40 stories, or rather, scenarios of afterlife that each one of us humans may live. He uses dark humor and wit to interpret the afterlife by way of how we lived this life.

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are making massive investments in it. Governments are scrambling to catch up. Every single one of us who uses Google Search or any of the new digital assistants on our smartphones has witnessed first-hand how quickly these developments now go. Many analysts foresee truly disruptive changes in education, employment, health, knowledge generation, mobility, etc. But what will AI mean for defense and security? In a new study HCSS offers a unique perspective on this question. Most studies to date quickly jump from AI to autonomous (mostly weapon) systems. They anticipate future armed forces that mostly resemble today's armed forces, engaging in fairly similar types of activities with a still primarily industrial-kinetic capability bundle that would increasingly be AI-augmented. The authors of this study argue that AI may have a far more transformational impact on defense and security whereby new incarnations of 'armed force' start doing different things in novel ways. The report sketches a much broader option space within which defense and security organizations (DSOs) may wish to invest in successive generations of AI technologies. It suggests that some of the most promising investment opportunities to start generating the sustainable security effects that our polities, societies and economies expect may lie in in the realms of prevention and resilience. Also in those areas any large-scale application of AI will have to

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result from a preliminary open-minded (on all sides) public debate on its legal, ethical and privacy implications. The authors submit, however, that such a debate would be more fruitful than the current heated discussions about 'killer drones' or robots. Finally, the study suggests that the advent of artificial super-intelligence (i.e. AI that is superior across the board to human intelligence), which many experts now put firmly within the longer-term planning horizons of our DSOs, presents us with unprecedented risks but also opportunities that we have to start to explore. The report contains an overview of the role that 'intelligence' - the computational part of the ability to achieve goals in the world - has played in defense and security throughout human history; a primer on AI (what it is, where it comes from and where it stands today - in both civilian and military contexts); a discussion of the broad option space for DSOs it opens up; 12 illustrative use cases across that option space; and a set of recommendations for - especially - small- and medium sized defense and security organizations.

In *Artificial Intelligence: Robot Law, Policy and Ethics*, Dr. Nathalie Rébé discusses the legal and contemporary issues in relation to creating conscious robots. This book provides an in-depth analysis of the existing regulatory tools, as well as a new comprehensive framework for regulating Strong AI.

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both people and business. AI is exciting, powerful, and game changing—but too many AI initiatives end in failure. With this book, you'll explore the risks, considerations, trade-offs, and constraints for pursuing an AI initiative. You'll learn how to create better human experiences and greater business success through winning AI solutions and human-centered products. Use the book's AIPB Framework to conduct end-to-end, goal-driven innovation and value creation with AI

Define a goal-aligned AI vision and strategy for stakeholders, including businesses, customers, and users

Leverage AI successfully by focusing on concepts such as scientific innovation and AI readiness and maturity

Understand the importance of executive leadership for pursuing AI initiatives

"A must read for business executives and managers interested in learning about AI and unlocking its benefits. Alex Castrounis has simplified complex topics so that anyone can begin to leverage AI within their organization." - Dan Park, GM & Director, Uber

"Alex Castrounis has been at the forefront of helping organizations understand the promise of AI and leverage its benefits, while avoiding the many pitfalls that can derail success. In this essential book, he shares his expertise with the rest of us." - Dean Wampler, Ph.D., VP, Fast Data Engineering at Lightbend

Algorithms increasingly run our lives. They find books, movies, jobs, and dates for us, manage our investments, and discover new drugs. More and more, these algorithms work by learning from the trails of data we leave in our newly digital world. Like curious children, they observe us, imitate, and experiment. And in the

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comprehensive definitions of both information and intelligence, an essential component to the advancement of computing into the realms of artificial intelligence. In examining explanations for intelligence, consciousness, memory and meaning from the perspective of a computer scientist, it offers routes that can be taken to augment natural and artificial intelligence, improving our own individual abilities, and even considering the potential for creating a prosthetic brain. *Unlocking Consciousness* demonstrates that understanding intelligence is not just for the benefit of computer scientists, it is also of great value to those working in evolutionary, molecular and systems biology, cognitive neuroscience, genetics and biotechnology. In unlocking the secrets of intelligence and laying out the methods of which information is structured and processed, we can unlock a completely new theory of consciousness. For additional published articles and appendices referenced in this title, readers can visit www.brainmindforum.org/ for further information.

This book gathers contributions related to the most pressing problems and challenges that new information and communications technologies (ICT) and digital platforms introduce into the labour market, and the impact they have on the way that people work, their rights and even their health and dignity. In addition, there are also chapters studying personal data protection, which is currently a topic of maximum interest due to the New European Regulation about it. The contributors here are drawn from around the world, with several countries represented, such as Portugal, Spain, Italy, Brazil, Australia and Venezuela. The book will appeal lawyers, legal and human resources experts, economists, judges, academics and staff from trade unions, and employers' representation. The volume features insights and contributions in different languages, with chapters in Spanish

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(12), English (6) and Portuguese (4).

Educational institutions are ever-changing due to the recent adoption of technology into current educational practices. The application of digital technology into education has propelled this field significantly, as researchers attempt to keep pace with the vast array of technologically-induced learning methods that are being implemented. As education keeps transforming, it would be highly beneficial for instructors and administrators to have a compilation of research that helps predict where digital education is going. Digital Learning: Architectures of Participation provides emerging research exploring the theoretical and practical aspects of current distance learning models as well as future methods of digital technology adoption within education. This book analyzes specific cases of digital learning models and works to establish future directions of e-learning adoption in institutions worldwide. Featuring coverage on a broad range of topics such as community development, digital practitioners, and educational policy, this book is ideally designed for researchers, administrators, practitioners, instructors, policymakers, theorists, analysts, academicians, and students seeking current research on the future of digital education.

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Master Algorithm How the Quest for the Ultimate Learning Machine Will Remake Our World
Traditional Chinese edition of The Master Algorithm: How the Quest for the Ultimate Learning Machine Will Remake Our World by Pedro Domingos. A No.1 bestseller on Amazon.

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