THE COMING REVOLUTION IN INTELLIGENCE AFFAIRS (Anthony Vinci, August 31, 2020)

For all of human history, people have spied on one another. To find out what others are doing or planning to do, people have surveilled, monitored, and eavesdropped—using tools that constantly improved but never displaced their human masters. Artificial intelligence (AI) and autonomous systems are changing all of that. In the future, machines will spy on machines in order to know what other machines are doing or are planning to do. Intelligence work will still consist of stealing and protecting secrets, but how those secrets are collected, analyzed, and disseminated will be fundamentally different.

Military futurists have recognized a similar sea change, and some have dubbed the rise of AI and autonomous weapons systems a "revolution in military affairs." Its analog in intelligence can be understood as a "revolution in intelligence affairs." Through the coming RIA, machines will become more than just tools for information collection and analysis. They will become intelligence consumers, decision-makers, and even targets of other machine intelligence operations. The ultimate concern of these machines will still be the political, social, economic, and military relations of human beings—but machine-driven intelligence will operate at such speed, scale, and complexity that human-driven intelligence will no longer be able to keep up. There is no stopping the RIA. The forces of technological innovation and competition have already unleashed it on the world. Instead, the U.S. intelligence community must embrace the RIA and prepare for a future dominated by AI—or else risk losing its competitive edge.

THE RISE OF MACHINE-DRIVEN INTELLIGENCE

Revolutions don't come out of nowhere. The RIA's origins date back to the twentieth century, when new technologies such as telecommunications and computing brought intelligence tradecraft new sophistication. Humans remained the agents of intelligence, but instead of watching with their own eyes, overhearing with their own ears, and analyzing and predicting with their own minds, they drew on increasingly powerful sensors and computing tools to enhance their capabilities.

Over the last 20 years this trend accelerated, leading to an enormous increase in the amount of data available to intelligence agencies. Classified and commercial sensors, ranging from bots on networks to autonomous drones to small satellites in space, now produce more information than humans could ever comprehend on their own. In 2017, the National Geospatial-Intelligence Agency predicted that the data its analysts would have to parse would increase a millionfold within five years. So much data so fast has ginned up fierce competition to make sense of it all—a dynamic that in turn has driven the adoption of automation, big data analytics, and AI. The pressure to keep up is tremendous: nations whose intelligence agencies can swiftly process vast quantities of complex data will have an edge over those that can't.

The parallel shift to autonomous systems and AI among the world's militaries has only intensified the competitive pressure: intelligence agencies need to be able to target and support advanced warfighting systems. Already, the U.S. military operates more than 11,000 unmanned aerial systems and even more underwater, space, and terrestrial systems. In addition, U.S. cybersecurity units must deal with millions of bots on global networks as well as billions of Internet of Things devices that act as sensors. These ever-proliferating systems require their own intelligence to operate, meaning that over time they will become the primary intelligence customers.

Even more revolutionary will be the shift to autonomous systems as intelligence targets—that is, when machines begin to spy on and deceive other machines. A plausible future scenario might involve an AI system that is charged with analyzing a particular question, such as whether an adversary is preparing for war. A second system, operated by the adversary, might purposefully inject data into the first system in order to impair its analysis. The first system might even become aware of the ruse and account for the fraudulent data, while acting as if it did not—thereby deceiving the deceiver. This sort of spy-versus-spy deception has always been part of intelligence, but it will soon take place among fully autonomous systems. In such a closed informational loop, intelligence and counterintelligence can happen without human intervention.

To understand what is at stake, consider an analogy from the financial world. High-speed quantitative trading systems rely on algorithms that sense changes in global stock markets, analyze huge sums of data to make predictions, and then automatically execute trades in a matter of microseconds. Humans can't operate at anywhere close to the same speed and scale. In order to keep up with the competition, even the most stalwart investment firms increasingly rely on quantitative trading systems. To compete with one another for secrets, intelligence agencies will increasingly require AI and autonomous systems, too.

ADAPTING THE INTELLIGENCE COMMUNITY

As machines become the primary collectors, analysts, consumers, and targets of intelligence, the entire U.S. intelligence community will need to evolve. This evolution must start with enormous investments in AI and autonomization technology as well as changes to concepts of operations that enable agencies to both process huge volumes of data and channel the resulting intelligence directly to autonomous machines. As practically everything becomes connected via networks that produce some form of electromagnetic signature or data, signals intelligence in particular will need to be a locus of AI evolution. So will geospatial intelligence. As satellites and other sensors proliferate, everything on earth will soon be visible at all times from above, a state that the federal research and development center Aerospace has called the "GEOINT Singularity." To keep up with all this data, geospatial intelligence, like signals intelligence, will need to radically enhance its AI capabilities.

The U.S. intelligence community is currently split up into different functions that collect and analyze discrete types of intelligence, such as signals or geospatial intelligence. The RIA may force the intelligence community to reassess whether these divisions still make sense. Electromagnetic information is electromagnetic information, whether it comes from a satellite or an Internet of Things device. The distinction in origin matters little if no human

Readings In Artificial Intelligence

Rachel Sandford

Readings In Artificial Intelligence:

   Readings in Artificial Intelligence Bonnie Lynn Webber,Nils J. Nilsson,2014-05-12 Readings in Artificial Intelligence focuses on the principles methodologies advancements and approaches involved in artificial intelligence The selection first elaborates on representations of problems of reasoning about actions a problem similarity approach to devising heuristics and optimal search strategies for speech understanding control Discussions focus on comparison with existing speech understanding systems empirical comparisons of the different strategies analysis of distance function approximation problem similarity problems of reasoning about action search for solution in the reduction system and relationship between the initial search space and the higher level search space The book then examines consistency in networks of relations non resolution theorem proving using rewriting rules for connection graphs to prove theorems and closed world data bases The manuscript tackles a truth maintenance system elements of a plan based theory of speech acts and reasoning about knowledge and action Topics include problems in reasoning about knowledge integration knowledge and action models of plans compositional adequacy truth maintenance mechanisms dialectical arguments and assumptions and the problem of control The selection is a valuable reference for researchers wanting to explore the field of artificial intelligence   **Readings in Artificial Intelligence and Databases** John Mylopoulos,Michael L. Brodie,2014-06-28 The interaction of database and AI technologies is crucial to such applications as data mining active databases and knowledge based expert systems This volume collects the primary readings on the interactions actual and potential between these two fields The editors have chosen articles to balance significant early research and the best and most comprehensive articles from the 1980s An in depth introduction discusses basic research motivations giving a survey of the history concepts and terminology of the interaction Major themes approaches and results open issues and future directions are all discussed including the results of a major survey conducted by the editors of current work in industry and research labs Thirteen sections follow each with a short introduction Topics examined include semantic data models with emphasis on conceptual modeling techniques for databases and information systems and the integration of data model concepts in high level data languages definition and maintenance of integrity constraints in databases and knowledge bases natural language front ends object oriented database management systems implementation issues such as concurrency control and error recovery and representation of time and knowledge incompleteness from the viewpoints of databases logic programming and AI   *Readings in Artificial Intelligence and Software Engineering* Charles Rich,Richard C. Waters,2014-06-28 Readings in Artificial Intelligence and Software Engineering covers the main techniques and application of artificial intelligence and software engineering The ultimate goal of artificial intelligence applied to software engineering is automatic programming Automatic programming would allow a user to simply say what is wanted and have a program produced completely automatically This book is organized into 11 parts encompassing 34 chapters that specifically tackle the topics of deductive synthesis program transformations program

verification and programming tutors The opening parts provide an introduction to the key ideas to the deductive approach namely the correspondence between theorems and specifications and between constructive proofs and programs These parts also describes automatic theorem provers whose development has be designed for the programming domain The subsequent parts present generalized program transformation systems the problems involved in using natural language input the features of very high level languages and the advantages of the programming by example system Other parts explore the intelligent assistant approach and the significance and relation of programming knowledge in other programming system The concluding parts focus on the features of the domain knowledge system and the artificial intelligence programming Software engineers and designers and computer programmers as well as researchers in the field of artificial intelligence will find this book invaluable   Readings in Machine Learning Jude W. Shavlik,Thomas Glen Dietterich,1990 The ability to learn is a fundamental characteristic of intelligent behavior Consequently machine learning has been a focus of artificial intelligence since the beginnings of AI in the 1950s The 1980s saw tremendous growth in the field and this growth promises to continue with valuable contributions to science engineering and business Readings in Machine Learning collects the best of the published machine learning literature including papers that address a wide range of learning tasks and that introduce a variety of techniques for giving machines the ability to learn The editors in cooperation with a group of expert referees have chosen important papers that empirically study theoretically analyze or psychologically justify machine learning algorithms The papers are grouped into a dozen categories each of which is introduced by the editors   **Readings in Medical Artificial Intelligence** William J. Clancey,Edward Hance Shortliffe,1984   Readings in Distributed Artificial Intelligence Alan H. Bond,Les Gasser,2014-06-05 Most artificial intelligence research investigates intelligent behavior for a single agent solving problems heuristically understanding natural language and so on Distributed Artificial Intelligence DAI is concerned with coordinated intelligent behavior intelligent agents coordinating their knowledge skills and plans to act or solve problems working toward a single goal or toward separate individual goals that interact DAI provides intellectual insights about organization interaction and problem solving among intelligent agents This comprehensive collection of articles shows the breadth and depth of DAI research The selected information is relevant to emerging DAI technologies as well as to practical problems in artificial intelligence distributed computing systems and human computer interaction Readings in Distributed Artificial Intelligence proposes a framework for understanding the problems and possibilities of DAI It divides the study into three realms the natural systems approach emulating strategies and representations people use to coordinate their activities the engineering science perspective building automated coordinated problem solvers for specific applications and a third hybrid approach that is useful in analyzing and developing mixed collections of machines and human agents working together The editors introduce the volume with an important survey of the motivations research and results of work in DAI This historical and conceptual overview combines with chapter introductions to guide the reader through this fascinating

field A unique and extensive bibliography is also provided **Readings in Music and Artificial Intelligence** Eduardo Reck Miranda,2013-10-28 The interplay between emotional and intellectual elements feature heavily in the research of a variety of scientific fields including neuroscience the cognitive sciences and artificial intelligence AI This collection of key introductory texts by top researchers worldwide is the first study which introduces the subject of artificial intelligence and music to beginners Eduardo Reck Miranda received a Ph D in music and artificial intelligence from the University of Edinburgh Scotland He has published several research papers in major international journals and his compositions have been performed worldwide Also includes 57 musical examples *Readings from AI Magazine* Robert Engelmore,1988

Readings in artificial intelligence Thomas Christaller,1991 **An Introduction to Artificial Intelligence** Kenneth H. Rose,1985 **Artificial Intelligence in Chemistry** Z. Hippe,2013-10-22 This comprehensive overview of the application of artificial intelligence methods AI in chemistry contains an in depth summary of the most interesting achievements of modern AI namely problem solving in molecular structure elucidation and in syntheses design The book provides a brief history of AI as a branch of computer science It also gives an overview of the basic methods employed for searching the solution space thoroughly exemplified by chemical problems together with a profound and expert discussion on many questions that may be raised by modern chemists wishing to apply computer assisted methods in their own research Moreover it includes a survey of the most important literature references covering all essential research in automated interpretation of molecular spectra to elucidate a structure and in syntheses design A glossary of basic terms from computer technology for chemists is appended This book is intended to make the emerging field of artificial intelligence understandable and accessible for chemists who are not trained in computer methods for solving chemical problems The author discusses step by step basic algorithms for structure elucidation and many aspects of the automated design of organic syntheses in order to integrate this fascinating technology into current chemical knowledge *A Guided Tour of Artificial Intelligence Research* Pierre Marquis,Odile Papini,Henri Prade,2020-05-08 The purpose of this book is to provide an overview of AI research ranging from basic work to interfaces and applications with as much emphasis on results as on current issues It is aimed at an audience of master students and Ph D students and can be of interest as well for researchers and engineers who want to know more about AI The book is split into three volumes the first volume brings together twenty three chapters dealing with the foundations of knowledge representation and the formalization of reasoning and learning Volume 1 Knowledge representation reasoning and learning the second volume offers a view of AI in fourteen chapters from the side of the algorithms Volume 2 AI Algorithms the third volume composed of sixteen chapters describes the main interfaces and applications of AI Volume 3 Interfaces and applications of AI This third volume is dedicated to the interfaces of AI with various fields with which strong links exist either at the methodological or at the applicative levels The foreword of this volume reminds us that AI was born for a large part from cybernetics Chapters are devoted to disciplines that are historically

sisters of AI natural language processing pattern recognition and computer vision and robotics Also close and complementary to AI due to their direct links with information are databases the semantic web information retrieval and human computer interaction All these disciplines are privileged places for applications of AI methods This is also the case for bioinformatics biological modeling and computational neurosciences The developments of AI have also led to a dialogue with theoretical computer science in particular regarding computability and complexity Besides AI research and findings have renewed philosophical and epistemological questions while their cognitive validity raises questions to psychology The volume also discusses some of the interactions between science and artistic creation in literature and in music Lastly an epilogue concludes the three volumes of this Guided Tour of AI Research by providing an overview of what has been achieved by AI emphasizing AI as a science and not just as an innovative technology and trying to dispel some misunderstandings

Elements of Machine Learning Pat Langley,1996 Machine learning is the computational study of algorithms that improve performance based on experience and this book covers the basic issues of artificial intelligence Individual sections introduce the basic concepts and problems in machine learning describe algorithms discuss adaptions of the learning methods to more complex problem solving tasks and much more   *Readings on Artificial Intelligence Applications* Andreas Dengel,2014

Artificial Intelligence Planning Systems James Hendler,1992   **Advances in Computers** ,1993-09-14 Advances in Computers   *Artificial Intelligence with Common Lisp* James L. Noyes,1992 The book provides a balanced survey of the fundamentals of artificial intelligence emphasizing the relationship between symbolic and numeric processing The text is structured around an innovative interactive combination of LISP programming and AI it uses the constructs of the programming language to help readers understand the array of artificial intelligence concepts presented After an overview of the field of artificial intelligence the text presents the fundamentals of LISP explaining the language s features in more detail than any other AI text Common Lisp is then used consistently in both programming exercises and plentiful examples of actual AI code Back cover This text is intended to provide an introduction to both AI and LISp for those having a background in computer science and mathematics Pref   Readings in Agents Michael N. Huhns,Munindar P. Singh,1998 This book collects the most significant literature on agents in an attempt top forge a broad foundation for the field Includes papers from the perspectives of AI databases distributed computing and programming languages The book will be of interest to programmers and developers especially in Internet areas   *Readings in Qualitative Reasoning About Physical Systems* Daniel S. Weld,Johan De Kleer,2013-09-17 Readings in Qualitative Reasoning about Physical Systems describes the automated reasoning about the physical world using qualitative representations This text is divided into nine chapters each focusing on some aspect of qualitative physics The first chapter deal with qualitative physics which is concerned with representing and reasoning about the physical world The goal of qualitative physics is to capture both the commonsense knowledge of the person on the street and the tacit knowledge underlying the quantitative knowledge used by engineers and

scientists The succeeding chapter discusses the qualitative calculus and its role in constructing an envisionment that includes behavior over both mythical time and elapsed time These topics are followed by reviews of the mathematical aspects of qualitative reasoning history based simulation and temporal reasoning as well as the intelligence in scientific computing The final chapters are devoted to automated modeling for qualitative reasoning and causal explanations of behavior These chapters also examine the qualitative kinematics of reasoning about shape and space This book will prove useful to psychologists and psychiatrists   Readings in Computer Vision Martin A. Fischler,Oscar Firschein,2014-06-28 The field of computer vision combines techniques from physics mathematics psychology artificial intelligence and computer science to examine how machines might construct meaningful descriptions of their surrounding environment The editors of this volume prominent researchers and leaders of the SRI International AI Center Perception Group have selected sixty papers most published since 1980 with the viewpoint that computer vision is concerned with solving seven basic problems Reconstructing 3D scenes from 2D images Decomposing images into their component parts Recognizing and assigning labels to scene objects Deducing and describing relations among scene objects Determining the nature of computer architectures that can support the visual function Representing abstractions in the world of computer memory Matching stored descriptions to image representation Each chapter of this volume addresses one of these problems through an introductory discussion which identifies major ideas and summarizes approaches and through reprints of key research papers Two appendices on crucial assumptions in image interpretation and on parallel architectures for vision applications a glossary of technical terms and a comprehensive bibliography and index complete the volume

The book delves into Readings In Artificial Intelligence. Readings In Artificial Intelligence is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Readings In Artificial Intelligence, encompassing both the fundamentals and more intricate discussions.

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   - Chapter 4: Readings In Artificial Intelligence in Specific Contexts
   - Chapter 5: Conclusion

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6. In chapter 5, this book will draw a conclusion about Readings In Artificial Intelligence. This chapter will summarize the key points that have been discussed throughout the book.
   This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Readings In Artificial Intelligence.

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