

READINGS ON ARTIFICIAL INTELLIGENCE (AI)

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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 focus 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

Pat Langley



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 of knowledge and action models, 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 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 Artificial Intelligence and Software Engineering Charles Rich, Richard C. Waters, 1986 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 been 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 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 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 from AI Magazine Robert Englemore,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 adaptations of the learning methods to more complex problem solving tasks and much more 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 been 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 Advances in Computers ,1993-09-14 Advances in Computers

Readings in Agents Michael N. Huhns,Munindar P. Singh,1998 This book collects the most significant literature on agents in an attempt to 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 Cognitive Science Allan Collins,Edward E. Smith,2013-10-02 Readings in Cognitive Science A

Perspective from Psychology and Artificial Intelligence brings together important studies that fall in the intersection between artificial intelligence and cognitive psychology This book is composed of six chapters and begins with the complex anatomy and physiology of the human brain The next chapters deal with the components of cognitive science such as the semantic memory similarity and analogy and learning These chapters also consider the application of mental models which represent the domain specific knowledge needed to understand a dynamic system or natural physical phenomena The remaining chapters discuss the concept of reasoning problem solving planning vision and imagery This book is of value to psychologists psychiatrists neurologists and researchers who are interested in cognition

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

Driving 5G Mobile Communications with Artificial Intelligence towards 6G Dragorad A. Milovanovic, Zoran S. Bojkovic, Tulsi Pawan Fowdur, 2023-04-06 *Driving*

5G Mobile Communications with Artificial Intelligence towards 6G presents current work and directions of continuous innovation and development in multimedia communications with a focus on services and users. The fifth generation of mobile wireless networks achieved the first deployment by 2020, completed the first phase of evolution in 2022, and started transition phase of 5G Advanced toward the sixth generation. Perhaps one of the most important innovations brought by 5G is the platform approach to connectivity, i.e. a single standard that can adapt to the heterogeneous connectivity requirements of vastly different use cases. 5G networks contain a list of different requirements, standardized technical specifications, and a range of implementation options with spectral efficiency, latency, and reliability as primary performance metrics. Towards 6G, machine learning (ML) and artificial intelligence (AI) methods have recently proposed new approaches to modeling, designing, optimizing, and implementing systems. They are now matured technologies that improve many research fields significantly. The area of wireless multimedia communications has developed immensely, generating a large number of concepts, ideas, technical specifications, mobile standards, patents, and articles. Identifying the basic ideas and their complex interconnections becomes increasingly important. The book is divided into three major parts, with each part containing four or five chapters.

Advanced 5G communication

Machine learning based communication and network automation

Artificial Intelligence towards 6G

The first part discusses three main scenarios and standard specification of 5G use cases: eMBB, URLLC, mMTC, vehicular systems beyond 5G, and efficient edge architecture on NFV infrastructure. In the second part, different AI/ML based methodologies and open research challenges are presented in introducing 5G AIoT, artificial intelligence of things, scheduling in 5G/6G communication systems, application of DL techniques to modulation detection and channel coding, as well as 5G Open Source tools for experimentations and testing. The third part paved the way to deployment scenarios for different innovative services, including technologies and applications of 5G/6G intelligent connectivity, AI assisted eXtended Reality, integrated 5G IoT architecture in next generation Smart Grid, privacy requirements in a hyper connected world, and evaluation of representative 6G use cases and technology trends. The book is written by field experts from Europe and Mauritius who introduce a blend of scientific and engineering concepts covering this emerging wireless communication era. It is a very good reference book for telecom professionals, engineers, and practitioner in various 5G vertical domains, and finally a basis for student courses in 5G/6G wireless systems.

Artificial Intelligence Planning Systems James Hendler, 1992

Readings In Artificial Intelligence Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Readings In Artificial Intelligence**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Published 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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Readings In Artificial Intelligence Introduction

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