

SECOND EDITION

ARTIFICIAL INTELLIGENCE

FOUNDATIONS OF COMPUTATIONAL AGENTS



DAVID L. POOLE
ALAN K. MACKWORTH

Artificial Intelligence Foundations Of Computational Agents

**Kose, Utku,Guraksin, Gur
Emre,Deperlioglu, Omer**

Artificial Intelligence Foundations Of Computational Agents:

Artificial Intelligence David L. Poole, Alan K. Mackworth, 2017-09-25 Artificial Intelligence presents a practical guide to AI including agents machine learning and problem solving simple and complex domains **Logic Programming and Nonmonotonic Reasoning** James Delgrande, Wolfgang Faber, 2011-05-02 This volume contains the refereed proceedings of the 11th International Conference on Logic Programming and Nonmonotonic Reasoning LPNMR 2011 held in May 2011 in Vancouver Canada The 16 revised full papers 13 technical papers 1 application description and 2 system descriptions and 26 short papers 16 technical papers 3 application description and 7 system descriptions which were carefully reviewed and selected from numerous submissions are presented together with 3 invited talks Being a forum for exchanging ideas on declarative logic programming nonmonotonic reasoning and knowledge representation the conference aims to facilitate interactions between those researchers and practitioners interested in the design and implementation of logic based programming languages and database systems and those who work in the area of knowledge representation and nonmonotonic reasoning

Cura Animarum Ioan C. Veres, 2025-04-25 As artificial intelligence advances healthcare faces a profound ethical question Can machines truly care This book critically examines the rise of AI driven social robots carebots in patient care evaluating their benefits and potential harms through the lens of Christian ethics While AI may enhance efficiency and offer support in specific healthcare contexts it also risks dehumanizing care replacing genuine human presence with technological substitutes Grounded in a theology of covenant care this work builds its ethical argument around the biblical parable of the Good Samaritan emphasizing the irreplaceable nature of human compassion It presents theological and ethical criteria to guide the responsible use of AI in healthcare ensuring that technology serves rather than supplants the dignity of human relationships This book is essential reading for theologians ethicists healthcare professionals and AI developers navigating the intersection of faith ethics and emerging technology As healthcare increasingly integrates AI Cura Animarum challenges readers to consider where technology supports human dignity and where it threatens to erode the essence of genuine care Is AI merely a tool or does it risk redefining what it means to care

Human-Centered AI Ben Shneiderman, 2022-01-13 The remarkable progress in algorithms for machine and deep learning have opened the doors to new opportunities and some dark possibilities However a bright future awaits those who build on their working methods by including HCAI strategies of design and testing As many technology companies and thought leaders have argued the goal is not to replace people but to empower them by making design choices that give humans control over technology In Human Centered AI Professor Ben Shneiderman offers an optimistic realist s guide to how artificial intelligence can be used to augment and enhance humans lives This project bridges the gap between ethical considerations and practical realities to offer a road map for successful reliable systems Digital cameras communications services and navigation apps are just the beginning Shneiderman shows how future applications will support health and wellness improve education accelerate

business and connect people in reliable safe and trustworthy ways that respect human values rights justice and dignity

Artificial Intelligence and Machine Learning Shoaib Irfan Mohammed ,2025-10-29 Artificial Intelligence AI and Machine Learning ML are rapidly advancing fields that focus on creating systems capable of performing tasks that normally require human intelligence These tasks include learning from experience recognizing patterns making decisions solving problems and adapting to new situations Artificial Intelligence is the broader concept that aims to build intelligent machines Machine Learning is a subset of AI that enables systems to automatically learn and improve from data without being explicitly programmed

Artificial Intelligence and Data Science Dr. Nibedita Das, Dr. S M P Qubeb, Keerthi Amistapuram, Dr. Ramesh Kumar Yadav ,2025-11-11 This course introduces the core concepts of Artificial Intelligence AI and Data Science covering intelligent problem solving machine learning techniques statistical analysis and data driven decision making Topics include supervised and unsupervised learning neural networks data preprocessing visualization predictive modeling and AI applications Students learn to build models analyze datasets and apply AI tools to solve real world problems across domains such as healthcare finance automation and computing

Nature-Inspired Intelligent Techniques for Solving Biomedical Engineering Problems Kose, Utku,Guraksin, Gur Emre,Deperlioglu, Omer,2018-03-31 Technological tools and computational techniques have enhanced the healthcare industry These advancements have led to significant progress and novel opportunities for biomedical engineering Nature Inspired Intelligent Techniques for Solving Biomedical Engineering Problems is a pivotal reference source for emerging scholarly research on trends and techniques in the utilization of nature inspired approaches in biomedical engineering Featuring extensive coverage on relevant areas such as artificial intelligence clinical decision support systems and swarm intelligence this publication is an ideal resource for medical practitioners professionals students engineers and researchers interested in the latest developments in biomedical technologies

Electricity Markets with Increasing Levels of Renewable Generation: Structure, Operation, Agent-based Simulation, and Emerging Designs Fernando Lopes,Helder Coelho,2018-02-14 This book describes the common ground between electricity markets EMs and software agents or artificial intelligence generally It presents an up to date introduction to EMs and intelligent agents and offers a comprehensive description of the research advances and key achievements related to existing and emerging market designs to reliably and efficiently manage the potential challenges of variable generation VG Most EMs are unique in their complex relationships between economics and the physics of energy but were created without the notion that large penetrations of variable generation VG would be part of the supply mix An advanced multi agent approach simulates the behavior of power markets over time particularly markets with large scale penetrations of renewable resources It is intended as a reference book for researchers academics and industry practitioners but given the scope of the chapters and the highly accessible style the book also provides a coherent foundation for several different graduate courses

Statistical Relational Artificial Intelligence Luc De Raedt,Kristian Kersting,Sriram Natarajan,David Poole,2016-03-24 An

intelligent agent interacting with the real world will encounter individual people courses test results drugs prescriptions chairs boxes etc and needs to reason about properties of these individuals and relations among them as well as cope with uncertainty Uncertainty has been studied in probability theory and graphical models and relations have been studied in logic in particular in the predicate calculus and its extensions This book examines the foundations of combining logic and probability into what are called relational probabilistic models It introduces representations inference and learning techniques for probability logic and their combinations The book focuses on two representations in detail Markov logic networks a relational extension of undirected graphical models and weighted first order predicate calculus formula and Problog a probabilistic extension of logic programs that can also be viewed as a Turing complete relational extension of Bayesian networks

Intelligence artificielle et emploi en Afrique Ibrahim Kalil Konaté, Michel Boukar, 2025-10-10 Ce

livre étudie les effets de l'intelligence artificielle IA et de la digitalisation sur l'emploi en Afrique en utilisant une méthodologie deux articulations. D'une part l'analyse des effets directs de l'IA sur la destruction d'emplois traditionnels dans des secteurs clés agriculture, PME et distribution et d'emplois peu qualifiés; l'automatisation des technologies et les mutations et l'adaptation des agents aux nouveaux emplois des technologies de l'information. D'autre part des études de cas et des données empiriques permettent de valuer cette destruction d'emplois et les facteurs atténuants et de silencer des marchés du travail africain.

innovations sociales et recommandations stratégiques pour diriger les défis de la digitalisation et favoriser un développement inclusif et durable de l'IA en Afrique

Rational Learning Jonathan Matthew Gratch, Gerald DeJong, University of Illinois at Urbana-Champaign, Department of Computer Science, 1993. The agent must possess specific deliberative capabilities to assess the relative merits of these actions in the larger context of its overall behavior and resource constraints. We present an algorithm that embodies these ideas within the area of speed up learning. This algorithm automatically assesses the benefits and costs of learning and flexibly allocates resources to learning depending on the resource demands of the current situation. We evaluate the algorithm in the real world domain of scheduling space craft data transmissions

Artificial Intelligence Stuart Russell, Peter Norvig, Ernest Davis, 2010. Artificial intelligence: A Modern Approach, 3e, is ideal for one or two semester undergraduate or graduate level courses in Artificial Intelligence. It is also a valuable resource for computer professionals, linguists and cognitive scientists interested in artificial intelligence. The revision of this best selling text offers the most comprehensive up to date introduction to the theory and practice of artificial intelligence

Intelligent Agents, 2001

Artificial Intelligence, 2002

Artificial Intelligence in Medicine, 2005

ICMAS-95, First International Conference on Multi-Agent Systems Victor Lesser, 1995. June 12-14, 1995, San Francisco. The first international conference on multiagent systems is organized as a joint effort of the North American Distributed Artificial Intelligence community, the Japanese Multiagent and Cooperative Computing community and the European Modeling Autonomous Agents in a Multiagent World community with support from AAAI and sanctioned by ECCAI. The Proceedings

cover a broad spectrum of perspectives including artificial life communications issues and negotiation strategies Topics cover Agent Architectures Artificial Life from a multiagent perspective Believable Agents Cooperation Coordination and Conflict Communication Issues Conceptual and Theoretical Foundations of Multiagent Systems Development and Engineering Methodologies Distributed Artificial Intelligence Distributed Consensus and Algorithms for Multiagent Interaction Distributed Search Evaluation of Multiagent Systems Integrated Testbeds and Development Environments Intelligent Agents in Enterprise Integration Systems and Similar Types of Applications Learning and Adaptation in Multiagent Systems Multiagent Cooperative Reasoning from Distributed Heterogeneous Databases Multiagent Planning and Planning for Multiagent Worlds Negotiation Strategies in both competitive and cooperative situations Organization Organizational Knowledge and Organization Self Design Practical Applications of Multiagent Systems enterprises robotics sensing manufacturing Resource Allocation in Multiagent Systems Social Structures and their Significance in Multiagent Systems User Interface Issues for Multiagent Systems Distributed for AAAI Press International Conference on Multi Agent Systems IEEE Computer Society,1998 This volume on multi agent systems is suitable for researchers professors practitioners students and other computing professionals *Artificial Intelligence* Allan Ramsay,1996 This book on AI research and development presents a wide range of topics of interest including automated reasoning theorem proving reasoning about action and change reasoning about time and space constraint satisfaction reasoning on uncertainty and with fuzzy sets analogy and induction machine learning Logics for AI logics for knowledge belief and intention multi valued logics modal and temporal logics epistemic logics fuzzy logics Languages structures and algorithms for AI logic programming inductive logic programming constraint programming multi agent systems connectionist systems genetic algorithms parallel processing for AI Knowledge based systems languages and systems for representing knowledge object based knowledge representation systems knowledge acquisition validation of knowledge based systems Natural language processing syntax semantics discourse speech recognition and understanding natural language generation natural language front ends Perception and action computer vision object recognition stereo vision active vision robotics systems robot programming robot motion planning mobile robotics behavior based reactive robots Principles of AI applications AI for decision systems AI in education AI in engineering design AI in manufacturing control AI in medicine AI in molecular biology AI in environmental sciences

Agent Systems, Mobile Agents, and Applications ,2000 **IEEE International Joint Symposia on Intelligence and Systems** ,1996 Proceedings of the November 1996 joint symposia organized in sections on intelligence in neural and biological systems intelligence in automation and robotics and image speech and natural language systems Subjects include biological sequences neural nets distributed representation and reason

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