

ARTIFICIAL COGNITIVE SYSTEMS

A PRIMER



DAVID VERNON

Artificial Cognitive Systems A Primer

David Vernon



Artificial Cognitive Systems A Primer:

Artificial Cognitive Systems David Vernon, 2014-10-17 A concise introduction to a complex field bringing together recent work in cognitive science and cognitive robotics to offer a solid grounding on key issues This book offers a concise and accessible introduction to the emerging field of artificial cognitive systems Cognition both natural and artificial is about anticipating the need for action and developing the capacity to predict the outcome of those actions Drawing on artificial intelligence developmental psychology and cognitive neuroscience the field of artificial cognitive systems has as its ultimate goal the creation of computer based systems that can interact with humans and serve society in a variety of ways This primer brings together recent work in cognitive science and cognitive robotics to offer readers a solid grounding on key issues The book first develops a working definition of cognitive systems broad enough to encompass multiple views of the subject and deep enough to help in the formulation of theories and models It surveys the cognitivist emergent and hybrid paradigms of cognitive science and discusses cognitive architectures derived from them It then turns to the key issues with chapters devoted to autonomy embodiment learning and development memory and prospection knowledge and representation and social cognition Ideas are introduced in an intuitive natural order with an emphasis on the relationships among ideas and building to an overview of the field The main text is straightforward and succinct sidenotes drill deeper on specific topics and provide contextual links to further reading

Artificial Cognitive Systems David Vernon, 2014-10-17 Given the current popularity of cognitive computing in industry and in academia alike it is indeed very timely to present a broad overview of computational cognitive systems and in particular computational cognitive architectures The author offers a wide ranging survey of interesting ideas relevant to this emerging field I recommend this book to anyone interested in the state of the art of this area of study and in how general principles of the brain mind may be articulated and applied

Artificial Cognitive Systems David Vernon, 2024-08-20 A concise introduction to a complex field bringing together recent work in cognitive science and cognitive robotics to offer a solid grounding on key issues This book offers a concise and accessible introduction to the emerging field of artificial cognitive systems Cognition both natural and artificial is about anticipating the need for action and developing the capacity to predict the outcome of those actions Drawing on artificial intelligence developmental psychology and cognitive neuroscience the field of artificial cognitive systems has as its ultimate goal the creation of computer based systems that can interact with humans and serve society in a variety of ways This primer brings together recent work in cognitive science and cognitive robotics to offer readers a solid grounding on key issues The book first develops a working definition of cognitive systems broad enough to encompass multiple views of the subject and deep enough to help in the formulation of theories and models It surveys the cognitivist emergent and hybrid paradigms of cognitive science and discusses cognitive architectures derived from them It then turns to the key issues with chapters devoted to autonomy embodiment learning and development memory and prospection knowledge and representation and

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Advanced Lessons in Artificial Intelligence: A Technical Novel and a Readable Primer Harry Katzan Jr.,2024-04-11 There are a lot of people that are worried about artificial intelligence where artificial intelligence is commonly regarded as the science of making machines do things that would require intelligence if performed by humans Primarily they think that the adoption of that technology will cause them to lose their jobs and they will not have anywhere to go for employment The computer will be doing everything from scrubbing the floor to running an investment bank and all that is in between These are primarily educated people who thought they were okay for their entire life And it s not like the bookkeeping and word processing jobs of years ago It s everything Really everything To boot you hear statements like That could be true that you might lose your job unless you know AI where the acronym AI stands for the two terrible words artificial intelligence It is something to worry about even though deep down you probably realize it isn t going to be true Somehow the government will take of it AI stands for Artificial Intelligence as I said and we will use those two letters throughout this volume AI books are simply hard to read and authors like to throw around unfamiliar terms like neuron cognitive science and Singularity and sooner or later they will end up with some math and there are many people that don t like math They could do math if they need to but they prefer not to Moreover it is hard to remember the subject when it is just thrown at you like you should love it to death This book uses dialog to ease the pain The first book is an easy to read novel with AI thrown in when appropriate or it is an AI book with the novel thrown in when the AI is getting sketchy You can share their misgivings We have added something more to help you with the subject matter of the first book We have included a supplemental book The second book is a pure and simple AI Primer and we mean really simple when you like what you ve read about AI in the technical novel first part and you want to get into it more fully There is another option You could read the Primer first and then read the novel part for enjoyment and to find out how the people in the first book are getting along with AI You will be surprised The volume that is both books is a good bargain that you could share with your family or give to a friend The books contain no violence no sex and no bad language and is suitable to readers of all ages I hope you enjoy it

Advances in Neural Computation, Machine Learning, and Cognitive Research V Boris Kryzhanovskiy,Witali Dunin-Barkowski,Vladimir Redko,Yury Tiumentsev,Valentin V. Klimov,2021-11-22 This book describes new theories and applications of artificial neural networks with a special focus on answering questions in neuroscience biology and biophysics and cognitive research It covers a wide range of methods and technologies including deep neural networks large scale neural models brain computer interface signal processing methods as well as models of perception studies on emotion recognition self organization and many more The book includes both selected and invited papers presented at the XXIII International Conference on Neuroinformatics held on October 18 22 2021 Moscow Russia

Cognitive Robotics Angelo

Cangelosi, Minoru Asada, 2022-05-17 The current state of the art in cognitive robotics covering the challenges of building AI powered intelligent robots inspired by natural cognitive systems A novel approach to building AI powered intelligent robots takes inspiration from the way natural cognitive systems in humans animals and biological systems develop intelligence by exploiting the full power of interactions between body and brain the physical and social environment in which they live and phylogenetic developmental and learning dynamics This volume reports on the current state of the art in cognitive robotics offering the first comprehensive coverage of building robots inspired by natural cognitive systems Contributors first provide a systematic definition of cognitive robotics and a history of developments in the field They describe in detail five main approaches developmental neuro evolutionary swarm and soft robotics They go on to consider methodologies and concepts treating topics that include commonly used cognitive robotics platforms and robot simulators biomimetic skin as an example of a hardware based approach machine learning methods and cognitive architecture Finally they cover the behavioral and cognitive capabilities of a variety of models experiments and applications looking at issues that range from intrinsic motivation and perception to robot consciousness Cognitive Robotics is aimed at an interdisciplinary audience balancing technical details and examples for the computational reader with theoretical and experimental findings for the empirical scientist

Biomimetic and Biohybrid Systems Vasiliki Vouloutsis, José Halloy, Anna Mura, Michael Mangan, Nathan Lepora, Tony J. Prescott, Paul F.M.J. Verschure, 2018-07-07 This book constitutes the proceedings of the 7th International Conference on Biomimetic and Biohybrid Systems Living Machines 2018 held in Paris France in July 2018 The 40 full and 18 short papers presented in this volume were carefully reviewed and selected from 60 submissions The theme of the conference targeted at the intersection of research on novel life like technologies inspired by the scientific investigation of biological systems biomimetics and research that seeks to interface biological and artificial systems to create biohybrid systems

Cognitive Computing for Machine Thinking Makarand R. Velankar, Parikshit N. Mahalle, Gitanjali R. Shinde, 2024-03-16 This book presents cognitive modeling along with the new paradigm machine thinking to enhance existing AI power and address its current limitations This book provides overview of natural and artificial intelligence along with the computing models used currently The need of advancing the current models is presented with suitable examples The business case studies presented in different domains provide possible use of augmented intelligence with the proposed machine thinking paradigm This book is targeted at academicians researchers students professionals who belong to disciplines which involves intelligent computing and modelling human thinking It provides possible multidisciplinary research directions including social psychology artificial intelligence HCI cognition for applications in various domains

Cognitive Architectures Maria Isabel Aldinhas Ferreira, João Silva Sequeira, Rodrigo Ventura, 2018-09-03 This book provides an integrated framework for natural and artificial cognition by highlighting the fundamental role played by the cognitive architecture in the dialectics with the surrounding environment and consequently in the definition of a particular meaningful

world This book is also about embodied and non embodied artificial systems cognitive architectures that are human constructs meant to be able to populate the human world capable of identifying different life contexts and replicating human patterns of behavior capable of acting according to human values and conventions systems that perform tasks in a human like way By identifying the essential phenomena at the core of all forms of cognition the book addresses the topic of design of artificial cognitive architectures in the domains of robotics and artificial life Moving from mere bio inspired design methodology it aims to open a pathway to semiotically determined design

Intelligent Human Systems Integration

Waldemar Karwowski,Tareq Ahram,2017-12-30 This book reports on research on innovative human systems integration and human machine interaction with an emphasis on artificial intelligence and automation as well as computational modeling and simulation It covers a wide range of applications in the area of design construction and operation of products systems and services including lifecycle development and human technology interaction The book describes advanced methodologies and tools for evaluating and improving interface usability new models as well as case studies and best practices in virtual augmented and mixed reality systems with a special focus on dynamic environments It also discusses different factors concerning the human hardware and artificial intelligence software Based on the proceedings of the 1st International Conference on Intelligent Human Systems Integration IHSI 2018 held on January 7 9 2018 in Dubai United Arab Emirates the book also examines the forces that are currently shaping the nature of computing and cognitive systems such as the need for decreasing hardware costs the importance of infusing intelligence and automation and the related trend toward hardware miniaturization and power reduction the necessity for a better assimilation of computation in the environment and the social concerns regarding access to computers and systems for people with special needs It offers a timely survey and a practice oriented reference guide to policy and decision makers human factors engineers systems developers and users alike

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