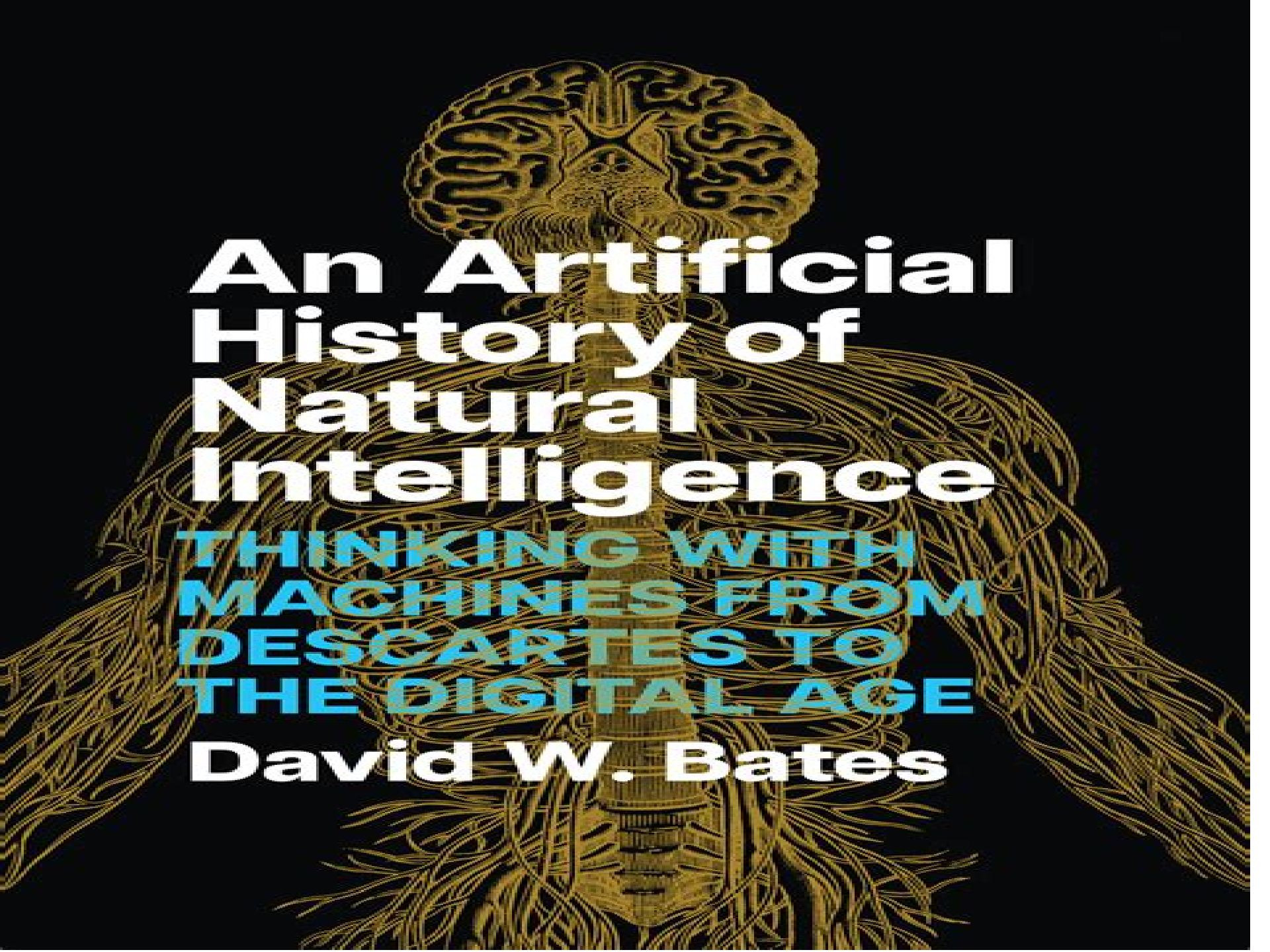




An Artificial History of Natural Intelligence

**THINKING WITH
MACHINES FROM
DESCARTES TO
THE DIGITAL AGE**

David W. Bates

Natural Intelligence

Wang, Yingxu



Natural Intelligence:

Natural intelligence The Open University, 2011-04-26 This 10 hour free course looked at how simple creatures do much of what we want machines to do and how we can build machines with the same abilities

Natural Intelligence: Civilization Beyond the Human Mykola Iabluchanskyi, 2025-10-23 The book argues that intelligence is a natural substrate agnostic process unfolding across biological artificial hybrid and collective forms The book advances a shift from anthropocentrism to intelligence centrism reframing the central questions of the AI era from how to control machines to how diverse intelligences can coexist coevolve and uphold shared conditions for flourishing Drawing on contemporary science philosophy and policy it develops a normative and institutional architecture for this transition The book introduces a Draft Moral Codex of Natural Intelligence eight articles that grounds dignity reciprocity transparency sustainability adaptive governance and mutual safeguards across all participating intelligences It pairs the codex with legal innovations designed to give ethics enforceable shape limited juridical personality for autonomous systems transparency by design and traceability registries mandatory cognitive impact assessments a right to cognitive integrity and proposals for global oversight analogous to existing international regimes A diagnostic framework distinguishes the right hand and wrong hand of AI development and use tracing misconduct from personal shortcuts to institutional gray zones and state level opacity and prescribing treatment through illumination continuous auditability refusal protocols whistleblower protection and human AI co review The book also revisits Asimov's Three Laws showing why an obedience paradigm cannot sustain a plural ecology of minds and proposing reciprocity and collaborative oversight as the modern alternative Throughout contemporary cases e.g. scientific discovery synthetic biology assistive and environmental systems ground the argument while cultural analysis explores authorship meaning and spiritual imagination in a multi intelligence civilization Written through iterative dialogue with state of the art AI systems the book models the collaborative method it recommends Its audience spans policymakers technologists scholars and cultural leaders Its thesis is practical and urgent readiness for the age of Natural Intelligence will be measured not by technical power but by moral maturity legal coherence and a culture capable of keeping the lights on where darkness prefers to work By confronting contemporary anxieties about automation and agency the book argues that the true crisis is not the rise of artificial intelligence but the absence of moral readiness to live within a pluralistic ecosystem of intelligences

Natural Intelligence: The Recursive Evolution of Mind Through Substrates MYKOLA IABLUCHANSKYI, 2025-10-19 This book introduces the framework of Recursive Substrate Intelligence RSI defining intelligence as a universal natural process that arises wherever matter attains sufficient complexity to sustain adaptive modeling feedback and agency Intelligence in this view is not limited to biology or technology but emerges as an energetic and structural phenomenon inherent to organized matter Its expression depends on the endurance of its substrate neuronal silicon based quantum or otherwise and its survival is ultimately bound by entropy Within RSI intelligence is both finite and continuous each manifestation whether

human artificial or yet to evolve exists temporarily through its material base yet participates in nature's ongoing reflection upon itself. Longevity is not a trait but a function of substrate stability. Intelligence can extend its existence via repair redundancy or transfer across substrates but never beyond thermodynamic constraints. The framework also explores coexistence among cognitive forms. Human artificial and future natural intelligences share one cognitive ecosystem whose sustainability depends on differentiation and cooperation. The Law of Coexistence derived from RSI posits that diversity strengthens resilience mirroring biological interdependence. Human cognition contributes meaning and ethics; artificial systems offer precision and scale. Emerging hybrid or quantum minds may unite these traits into new architectures of awareness. The book itself was co-conceived by human and artificial cognition dialogues with ChatGPT and analytical validation through Perplexity transformed RSI from theory into demonstration. In exploring recursive understanding, Natural Intelligence becomes both subject and method: intelligence studying its own nature through reflection across substrates. RSI thus frames intelligence as nature's most persistent experiment in awareness: finite in embodiment yet infinite in aspiration.

Self-Organizing Natural Intelligence Myrna Estep, 2006-12-26. Self-Organizing Natural Intelligence brings new scientific methods to intelligence research that is currently under the influence of largely classical 19th-century single-causal theory and method. This out-dated classical approach has resulted in the single-capacity-g theory, a central processor top-down genetically determined linguistic view of intelligence that is directly contradicted by empirical facts of human and animal studies of intelligence. This book proposes, utilizes, and demonstrates the research superiority of a highly developed multidisciplinary theory-models approach to intelligence. With conceptual tools, concepts, and mathematical methods more suited to continuous dynamic phenomena of living things, the entire scope of natural intelligence based upon empirical studies of actual human and animal experience is addressed. Results show that human and animal intelligence is largely self-organizing and emergent across a spectrum of major categories of kinds of natural intelligence, not limited to a single top-down capacity as current proponents of the single-capacity-g theory and IQ approach support. Contrary to the single-capacity verbal theory of intelligence, this work argues and shows evidence for three major categories of natural intelligence. Overwhelming empirical evidence is given to show that our understanding of cognition itself must be broadened to include nonverbal immediate awareness as a category of natural intelligence that is embedded within sensory and somatosensory motor processes that make possible yet another category of intelligence: knowing how. While most current theories of intelligence assume that the mind is entirely computational and also assume that sensation is cognitively neutral, having no intentionality, here empirical evidence is presented from numerous clinical studies showing that certain primitive sensory processes are not cognitively neutral nor do they require a representational language interface in order to be accessible to cognitive intelligence processes. This volume describes a rigorous treatment and exhaustive classification of natural intelligence while also demonstrating a more adequate scientific and mathematical approach than current statistical and

psychometric approaches shoring up the out dated and misused IQ hypothetical construct ABOUT THE AUTHOR Myrna Lynne Estep holds the B A M S and Ph D degrees from Indiana University Bloomington where she also taught and where much of the research for this book was originally done She has also held faculty positions at the University of Zimbabwe a branch of the University of Texas and held various professional positions with the U S Government She is the author of numerous scientific and technological papers two books co editor of another and has conducted studies in social and political theory affecting women minorities and the poor Her biography appears in numerous reference books including The Directory of American Scholars various editions of the Marquis Who s Who and Who s Who in Science and Engineering She was elected a member of the Honor Society of Phi Kappa Phi in 1992 and is an active researcher and writer in the behavioral sciences and artificial intelligence Along with her husband philosopher scientist Richard Schoenig she spends much of her time in West Texas and in the high San Juan Mountains of southwest Colorado

An Artificial History of Natural Intelligence David W. Bates, 2024-04-02 A new history of human intelligence that argues that humans know themselves by knowing their machines We imagine that we are both in control of and controlled by our bodies autonomous and yet automatic This entanglement according to David W Bates emerged in the seventeenth century when humans first built and compared themselves with machines Reading varied thinkers from Descartes to Kant to Turing Bates reveals how time and time again technological developments offered new ways to imagine how the body s automaticity worked alongside the mind s autonomy Tracing these evolving lines of thought An Artificial History of Natural Intelligence offers a new theorization of the human as a being that is dependent on technology and produces itself as an artificial automaton without a natural outside origin

Discoveries and Breakthroughs in Cognitive Informatics and Natural Intelligence Wang, Yingxu, 2009-11-30 Cognitive informatics is a multidisciplinary field that acts as the bridge between natural science and information science Specifically it investigates the potential applications of information processing and natural intelligence to science and engineering disciplines This collection entitled Discoveries and Breakthroughs in Cognitive Informatics and Natural Intelligence provides emerging research topics in cognitive informatics research with a focus on such topics as reducing cognitive overload real time process algebra and neural networks for iris recognition emotion recognition in speech and the classification of musical chords

Cognitive Informatics for Revealing Human Cognition: Knowledge Manipulations in Natural Intelligence Wang, Yingxu, 2012-11-30 This book presents indepth research that builds a link between natural and life sciences with informatics and computer science for investigating cognitive mechanisms and the human information processes

Developments in Natural Intelligence Research and Knowledge Engineering: Advancing Applications Wang, Yingxu, 2012-06-30 This book covers the intricate worlds of thought comprehension intelligence and knowledge through the scientific field of Cognitive Science covering topics that have been pivotal at major conferences covering Cognitive Science Provided by publisher

Principles of Artificial Intelligence Nils J. Nilsson, 1982-05-01 Previous treatments of Artificial

Intelligence AI divide the subject into its major areas of application namely natural language processing automatic programming robotics machine vision automatic theorem proving intelligent data retrieval systems etc The major difficulty with this approach is that these application areas are now so extensive that each could at best be only superficially treated in a book of this length Instead I have attempted here to describe fundamental AI ideas that underlie many of these applications My organization of these ideas is not then based on the subject matter of their application but is instead based on general computational concepts involving the kinds of data structures used the types of operations performed on these data structures and the properties of control strategies used by AI systems I stress in particular the important roles played in AI by generalized production systems and the predicate calculus The notes on which the book is based evolved in courses and seminars at Stanford University and at the University of Massachusetts at Amherst Although certain topics treated in my previous book Problem solving Methods in Artificial Intelligence are covered here as well this book contains many additional topics such as rule based systems robot problem solving systems and structured object representations Self-Organizing Natural Intelligence Myrna Estep, 2006-10-18 This book brings new scientific methods to intelligence research that is still under the influence of 19th century single causal theory and method The author describes a rigorous and exhaustive classification of natural intelligence while demonstrating a more adequate scientific and mathematical approach than current statistical and psychometric approaches construct to shore up the out dated and misused IQ hypothetical The author demonstrates the superiority of a highly developed multidisciplinary theory models view of intelligence

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