

Myrna Estep

A Theory of Immediate Awareness

Self-Organization and Adaptation
in Natural Intelligence

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A Theory Of Immediate Awareness Self Organization And Adaptation In Natural Intelligence

Myrna Estep



A Theory Of Immediate Awareness Self Organization And Adaptation In Natural Intelligence:

A Theory of Immediate Awareness M. Estep, 2013-06-29 This book is multi and interdisciplinary in both scope and content. It draws upon philosophy, the neurosciences, psychology, computer science, and engineering in efforts to resolve fundamental issues about the nature of immediate awareness. Approximately the first half of the book is addressed to historical approaches to the question whether or not there is such a thing as immediate awareness and if so what it might be. This involves reviewing arguments that one way or another have been offered as answers to the question or ways of avoiding it. It also includes detailed discussions of some complex questions about the part immediate awareness plays in our overall natural intelligence. The second half of the book addresses intricate and complex issues involved in the computability of immediate awareness as it is found in simple ordinary things human beings know how to do as well as in some highly extraordinary things some know how to do. Over the past 2 500 years human culture has discovered, created, and built very powerful tools for recognizing, classifying, and utilizing patterns found in the natural world. The most powerful of those tools is mathematics, the language of nature. The natural phenomenon of human knowing of natural intelligence generally is a very richly textured set of patterns that are highly complex, dynamic, self-organizing, and adaptive. *Self-organization and Emergence in Life Sciences* Bernard Feltz, Marc Crommelinck, Philippe Goujon, 2006-01-13 Self organization constitutes one of the most important theoretical debates in contemporary life sciences. The present book explores the relevance of the concept of self organization and its impact on such scientific fields as immunology, neurosciences, ecology, and theories of evolution. Historical aspects of the issue are also broached. Intuitions relative to self organization can be found in the works of such key western philosophical figures as Aristotle, Leibniz, and Kant. Interacting with more recent authors and cybernetics, self organization represents a notion in keeping with the modern world's discovery of radical complexity. The themes of teleology and emergence are analyzed by philosophers of sciences with regards to the issues of modelization and scientific explanation. The implications of self organization for life sciences are here approached from an interdisciplinary angle, revealing the notion as already rewarding and full of promise for the future. *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

Educational Technology Beyond Content Brad Hokanson, Gregory Clinton, Andrew A. Tawfik, Amy Grincewicz, Matthew Schmidt, 2020-04-09 This book is the outcome of a research symposium sponsored by the Association for Educational Communications and Technology AECT Consisting of twenty four chapters including an introduction and conclusion it argues that informational content should not be the main element of education and that to provide more for learners it is necessary to go beyond content and address other skills and capabilities It also discusses the false premise that learning is complete when the information is known not when learners seek more their own directions answers and ideas The authors assert that the ability to synthesize solve problems and generate ideas is not based on specific content although education often focuses solely on teaching content Further they state that content can be separated from the learning process and that instructional design and educational technology must be about the skills habits and beliefs to be learned

Learning, Design, and Technology J. Michael Spector, Barbara B. Lockee, Marcus D. Childress, 2023-10-14 The multiple

related fields encompassed by this Major Reference Work represent a convergence of issues and topics germane to the rapidly changing segments of knowledge and practice in educational communications and technology at all levels and around the globe There is no other comparable work that is designed not only to gather vital current and evolving information and understandings in these knowledge segments but also to be updated on a continuing basis in order to keep pace with the rapid changes taking place in the relevant fields The Handbook is composed of substantive 5 000 to 15 000 words peer reviewed entries that examine and explicate seminal facets of learning theory research and practice It provides a broad range of relevant topics including significant developments as well as innovative uses of technology that promote learning performance and instruction This work is aimed at researchers designers developers instructors and other professional practitioners

What Comes After Money? Daniel Pinchbeck, Ken Jordan, 2011-09-27 Most people believe that money is organic and inevitable we forget that money is just a tool created to perform certain functions But just as computer programmers drop out of date tools and pick up better ones as soon as they become available we might switch from bank financed currency to a more equitable method for transferring goods and services As an operating system for society money needs a major upgrade What Comes After Money offers a wealth of alternatives to the current monetary system In this anthology of essays drawn from the popular web magazine Reality Sandwich 20 visionary thinkers explore the roots of the modern economic crisis and propose diverse solutions instituting local currencies creating reputation or gift economies based on historical and contemporary introducing spirituality into the equation and many more Contributors include economist Bernard Leitaer media theorist Douglas Rushkoff musician Paul D Miller a k a DJ Spooky theoretical physicist Amit Goswami Larry Harvey founder of Burning Man and Peter Lamborn Wilson a k a Hakim Bey About the Imprint EVOLVER EDITIONS promotes a new counterculture that recognizes humanity s visionary potential and takes tangible pragmatic steps to realize it EVOLVER EDITIONS explores the dynamics of personal collective and global change from a wide range of perspectives EVOLVER EDITIONS is an imprint of North Atlantic Books and is produced in collaboration with Evolver LLC

Inclusive Feminism Naomi Zack, 2005-03-11 Second Wave feminism collapsed in the early 1980s when a universal definition of women was abandoned At the same time as a reaction to the narcissism of white middle class feminism intersectionality led to many different feminisms according to race sexual preference and class These ongoing segregations make it impossible for women to unite politically and they have not ended exclusion and discrimination among women especially in the academy In Inclusive Feminism Naomi Zack provides a universal relational definition of women critically engages both Anglo and French feminists and shows how women can become a united historical force with the political goal of ruling in place of men

The British National Bibliography Arthur James Wells, 2004 American Book Publishing Record , 2003 *A Theory of Immediate Awareness* M. Estep, 2014-01-15

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