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NEW PERSPECTIVES ON CYBERNETICS

Self-Organization, Autonomy and Connectionism

Edited by Gertrudis Van de Vijver

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New Perspectives On Cybernetics Self Organization Autonomy And Connectionism

Jean-Pierre Dupuy



New Perspectives On Cybernetics Self Organization Autonomy And Connectionism:

New Perspectives on Cybernetics G. Vijver, 1992 Gertrudis Van de Vijver Seminar of Logic and Epistemology University of Ghent Before being classified under the fashionable denominators of complexity and chaos self organization and autonomy were intensely inquired into in the cybernetic tradition Despite all rejections that cybernetics has gone through in the second half of this century today its importance is more and more recognized Its decisive influence for connectionist theories autopoietic and constructivist theories for different forms of applied or experimental epistemology is being more and more understood and generally accepted It is mainly due to the success of connectionist models that we observe today a revival of interest for cybernetics The 1943 article by McCulloch and Pitts is evidently a founding article Cybernetics has however a much broader interest than the one linked to technical mathematical details relevant to the construction of networks For instance the evolution from first to second order cybernetics the ways of approaching biological and cognitive phenomena in the latter and the limits that were formulated there are particularly meaningful to understand current developments and divergences in connectionism A nuanced picture of cybernetic s history and its present state is therefore clearly epistemologically essential *New Perspectives on Cybernetics* G. Vijver, 2013-06-29 Gertrudis Van de Vijver Seminar of Logic and Epistemology University of Ghent Before being classified under the fashionable denominators of complexity and chaos self organization and autonomy were intensely inquired into in the cybernetic tradition Despite all rejections that cybernetics has gone through in the second half of this century today its importance is more and more recognized Its decisive influence for connectionist theories autopoietic and constructivist theories for different forms of applied or experimental epistemology is being more and more understood and generally accepted It is mainly due to the success of connectionist models that we observe today a revival of interest for cybernetics The 1943 article by McCulloch and Pitts is evidently a founding article Cybernetics has however a much broader interest than the one linked to technical mathematical details relevant to the construction of networks For instance the evolution from first to second order cybernetics the ways of approaching biological and cognitive phenomena in the latter and the limits that were formulated there are particularly meaningful to understand current developments and divergences in connectionism A nuanced picture of cybernetic s history and its present state is therefore clearly epistemologically essential **Self-Producing Systems** John Mingers, 2013-11-21 John Mingers new volume Self Producing Systems Implications and Applications of Autopoiesis is a much needed reference on autopoiesis a subject penetrating many disciplines today I can genuinely say that I enjoyed reading the book as it took me stage by stage through a clear and easy to grasp understanding of the concepts and ideas of autopoiesis and then as the book s title suggests on through their applications I found the summary in Chapter 12 particularly useful helping to crystalize the main points of each chapter The book conveyed enthusiasm for the subject and stimulated my interest in it At times the book is demanding but only because of the breadth of the subject matter the terms

and concepts associated with its parts and the challenge of keep ing hold of all this in the mind at once This is an exceptional text ROBERT L FLOOD Hull UK Preface In recent years Maturana s and Varela s concept of autopoiesis origi nally a biological concept has made a remarkable impact not just on a single area but across widely differing disciplines such as sociology policy science psychotherapy cognitive science and law Put very briefly the term autopoiesis connotes the idea that certain types of sys tems exist in a particular manner they are self producing systems In their operations they continuously produce their own constituents their own components which then participate in these same production pro cesses La traduzione Susan Petrilli,2000 **Translation Translation** ,2021-07-26 Translation Translation contributes to current debate on the question of translation dealt with in an interdisciplinary perspective with implications not only of a theoretical order but also of the didactic and the practical orders In the context of globalization the question of translation is fundamental for education and responds to new community needs with reference to Europe and more extensively to the international world In its most obvious sense translation concerns verbal texts and their relations among different languages However to remain within the sphere of verbal signs languages consist of a plurality of different languages that also relate to each other through translation processes Moreover translation occurs between verbal languages and nonverbal languages and among nonverbal languages without necessarily involving verbal languages Thus far the allusion is to translation processes within the sphere of anthroposemiosis But translation occurs among signs and the signs implicated are those of the semiotic sphere in its totality which are not exclusively signs of the linguistic verbal order Beyond anthroposemiosis translation is a fact of life and invests the entire biosphere or biosemiosphere as clearly evidenced by research in biosemiotics for where there is life there are signs and where there are signs or semiotic processes there is translation indeed semiotic processes are translation processes According to this approach reflection on translation obviously cannot be restricted to the domain of linguistics but must necessarily involve semiotics the general science or theory of signs In this theoretical framework essays have been included not only from major translation experts but also from researchers working in different areas in addition to semiotics and linguistics also philosophy literary criticism cultural studies gender studies biology and the medical sciences All scholars work on problems of translation in the light of their own special competencies and interests **Interdisciplinary Approaches to Semiotics** Asunción Lopez-Varela Azcárate,2017-08-23 This volume stresses the contemporary relevance of semiotics The introductory chapter shows how the collection of papers emphasises crossings at the material level of physical reality as well as in their semio cognitive and cultural implications questioning the delimitation of interdisciplinary borders between the social sciences and humanities and STEM disciplines The volume shows how semiotics continues to provide a framework for emerging knowledge traditions without completely disregarding its past Through explorations in fields as wide apart as ecological psychology and visualisation systems by finding correspondences between the arithmetic of music and cosmic energies or between the pedagogic significance of images and habitat facilities

as well as using investigation tools ranging from the mathematical representation of concepts to science education this book addresses multifarious aspects and implications of culture and cognition standing convincing proof that semiotics is as alive productive and scholarly useful as ever

Musical Sense-Making Mark Reybrouck, 2020-11-29 Musical Sense Making Enaction Experience and Computation broadens the scope of musical sense making from a disembodied cognitivist approach to an experiential approach Revolving around the definition of music as a temporal and sounding art it argues for an interactional and experiential approach that brings together the richness of sensory experience and principles of cognitive economy Starting from the major distinction between in time and outside of time processing of the sounds this volume provides a conceptual and operational framework for dealing with sounds in a real time listening situation relying heavily on the theoretical groundings of ecology cybernetics and systems theory and stressing the role of epistemic interactions with the sounds These interactions are considered from different perspectives bringing together insights from previous theoretical groundings and more recent empirical research The author's findings are framed within the context of the broader field of enactive and embodied cognition recent action and perception studies and the emerging field of neurophenomenology and dynamical systems theory This volume will particularly appeal to scholars and researchers interested in the intersection between music philosophy and or psychology

On the Origins of Cognitive Science Jean-Pierre Dupuy, 2009-04-17 An examination of the fundamental role cybernetics played in the birth of cognitive science and the light this sheds on current controversies The conceptual history of cognitive science remains for the most part unwritten In this groundbreaking book Jean Pierre Dupuy one of the principal architects of cognitive science in France provides an important chapter the legacy of cybernetics Contrary to popular belief Dupuy argues cybernetics represented not the anthropomorphization of the machine but the mechanization of the human The founding fathers of cybernetics some of the greatest minds of the twentieth century including John von Neumann Norbert Wiener Warren McCulloch and Walter Pitts intended to construct a materialist and mechanistic science of mental behavior that would make it possible at last to resolve the ancient philosophical problem of mind and matter The importance of cybernetics to cognitive science Dupuy argues lies not in its daring conception of the human mind in terms of the functioning of a machine but in the way the strengths and weaknesses of the cybernetics approach can illuminate controversies that rage today between cognitivists and connectionists eliminative materialists and Wittgensteinians functionalists and anti reductionists Dupuy brings to life the intellectual excitement that attended the birth of cognitive science sixty years ago He separates the promise of cybernetic ideas from the disappointment that followed as cybernetics was rejected and consigned to intellectual oblivion The mechanization of the mind has reemerged today as an all encompassing paradigm in the convergence of nanotechnology biotechnology information technology and cognitive science The tensions contradictions paradoxes and confusions Dupuy discerns in cybernetics offer a cautionary tale for future developments in cognitive science

Systemic Choices Gregory A. Daneke, 2010-05-25 The revolution in social scientific

theory and practice known as nonlinear dynamics chaos or complexity derived from recent advances in the physical biological and cognitive sciences is now culminating with the widespread use of tools and concepts such as praxis fuzzy logic artificial intelligence and parallel processing By tracing a number of conceptual threads from mathematics economics cybernetics and various other applied systems theoretics this book offers a historical framework for how these ideas are transforming the social sciences Daneke goes on to address a variety of persistent philosophical issues surrounding this paradigm shift ranging from the nature of human rationality to free will Finally he describes this shift as a path for revitalizing the social sciences just when they will be most needed to address the human condition in the new millennium

Systemic Choices describes how praxis and other complex systems tools can be applied to a number of pressing policy and management problems For example simulations can be used to grow a number of robust hybrid industrial and or technological strategies between cooperation and competition Likewise elements of international agreements could be tested for sustainability under adaptively evolving institutional designs Other concrete applications include strategic management total quality management and operational analyses This exploration of a wide range of technical tools and concepts will interest economists political scientists sociologists psychologists and those in the management disciplines such as strategy organizational behavior finance and operations Gregory A Daneke is Professor of Technology Management Arizona State University and of Human and Organization Development The Fielding Institute

The Codes of Life Marcello Barbieri, 2007-10-26 Building on a range of disciplines from biology and anthropology to philosophy and linguistics this book draws on the expertise of leading names in the study of organic mental and cultural codes brought together by the emerging discipline of biosemiotics The book's 18 chapters present a range of experimental evidence which suggests that the genetic code was only the first in a long series of organic codes and that it has been the appearance of new codes organic mental and cultural that paved the way for the major transitions in the history of life While the existence of many organic codes has been proposed since the 1980s this volume represents the first multi authored attempt to deal with the range of codes relevant to life and to reveal the ubiquitous role of coding mechanisms in both organic and mental evolution This creates the conditions for a synthesis of biology and linguistics that finally overcomes the old divide between nature and culture The book will appeal to all those interested in the origins and evolution of life including biologists from molecular and cellular biologists to evolutionary and developmental biologists ecologists anthropologists psychologists philosophers of science linguists and researchers interested in the history of science the origins of life artificial life and intelligence and information theory and communication technology

Movements of Form Joachim H. Mowitz, Arno L. Goudsmit, 2024-02-16 This book offers a thought provoking exploration of dynamic geometry and its connections to self reference and theoretical biology The authors explore how a self referential boundary can be translated into remarkable relations between expanding geometrical forms with a particular focus on triangles and circles The essence of this work lies in revealing not only how these forms expand

and interact with others but also how their interactions lead to closed loops of definitions between processes where triangles and circles reciprocally define one another These unique geometrical relations offer fresh perspectives on the interaction and emergence of forms Through the introduction of time and a fixed velocity of expansions a rich tapestry of encounters and coalescences unfolds pushing beyond the boundaries of traditional insights on context dependence and state transitions of systems These captivating movements elude prediction other than by numerical approximation within unpredictable durations Unlike cellular automata they defy stepwise progression on a predefined grid presenting themselves as unprogrammable construction processes that leave readers in awe of their unexpected elegance This book is essential reading for researchers and students in theoretical biology seeking to deepen their understanding of the intersections of geometry and systems theory and seeking to gain new insights into the processes that underlie the origination of complexity What is unique to the authors attempt is to shed a new light on extending the notion of cohesive interaction so as to make it applicable even to biology at large without offending the established physics so far To the best of my knowledge their work has been the first attempt of this kind in explicating the intricate relationship between geometric topology of the network and the realizable temporal cohesion to be observed widely in biology Professor Koichiro Matsuno 1st foreword to this book I am delighted that the authors use Robert Rosen's M R systems impredicative networks that are inherently geometrical to illustrate see Chapter 4 of this book their self-referential systems of geometrical expansions dr Aloisius Louie 2nd foreword to this book

Information Theory And Evolution (Third Edition) John Scales Avery, 2021-11-24 This highly interdisciplinary book discusses the phenomenon of life including its origin and evolution against the background of thermodynamics statistical mechanics and information theory Among the central themes is the seeming contradiction between the second law of thermodynamics and the high degree of order and complexity produced by living systems As the author shows this paradox has its resolution in the information content of the Gibbs free energy that enters the biosphere from outside sources Another focus of the book is the role of information in human cultural evolution which is also discussed with the origin of human linguistic abilities One of the final chapters addresses the merging of information technology and biotechnology into a new discipline bioinformation technology This third edition has been updated to reflect the latest scientific and technological advances Professor Avery makes use of the perspectives of famous scholars such as Professor Noam Chomsky and Nobel Laureates John O Keefe May Britt Moser and Edward Moser to cast light on the evolution of human languages The mechanism of cell differentiation and the rapid acceleration of information technology in the 21st century are also discussed With various research disciplines becoming increasingly interrelated today Information Theory and Evolution provides nuance to the conversation between bioinformatics information technology and pertinent social political issues This book is a welcome voice in working on the future challenges that humanity will face as a result of scientific and technological progress

Evolutionary Web Development Arno Scharl, 2012-12-06 Evolutionary Web Development examines the evolution of

Web information systems paying particular attention to the emergent attributes of electronic markets It identifies four categories of architecture and demonstrates their virtues and limitations static interactive adaptive and agent mediated systems Advanced systems require the developer to truly understand the needs and preferences of customers As well as such personal attributes the availability of empirical data about the structure and content of Web information systems is a precondition for their effective assessment Arno Scharl presents an automated and scalable approach to Web assessment He emphasizes the role of feedback in an iterative cycle of design implementation usage and analysis *Systems Thinking, Critical Realism and Philosophy* John Mingers, 2014-04-24 *Systems Thinking Critical Realism and Philosophy A Confluence of Ideas* seeks to re address the whole question of philosophy and systems thinking for the twenty first century and provide a new work that would be of value to both systems and philosophy This is a highly opportune time when different fields critical realism philosophy of science and systems thinking are all developing around the same set of concepts and yet not realizing it This book will be of interest to the academic systems community worldwide and due to its interdisciplinary coverage it will also be of relevance to a wide range of scholars in other disciplines particularly philosophy but also operational research information systems and sociology **Information Theory And Evolution (2nd Edition)** John Scales Avery, 2012-05-21 *Information Theory and Evolution* discusses the phenomenon of life including its origin and evolution and also human cultural evolution against the background of thermodynamics statistical mechanics and information theory Among the central themes is the seeming contradiction between the second law of thermodynamics and the high degree of order and complexity produced by living systems This paradox has its resolution in the information content of the Gibbs free energy that enters the biosphere from outside sources as the author will show The role of information in human cultural evolution is another focus of the book The first edition of *Information Theory and Evolution* made a strong impact on thought in the field by bringing together results from many disciplines The new second edition offers updated results based on reports of important new research in several areas including exciting new studies of the human mitochondrial and Y chromosomal DNA Another extensive discussion featured in the second edition is contained in a new appendix devoted to the relationship of entropy and Gibbs free energy to economics This appendix includes a review of the ideas of Alfred Lotka Frederick Soddy Nicholas Georgescu Roegen and Herman E Daly and discusses the relevance of these ideas to the current economic crisis The new edition discusses current research on the origin of life the distinction between thermodynamic information and cybernetic information new DNA research and human prehistory developments in current information technology and the relationship between entropy and economics [Artificial Earth](#) J Daniel Andersson, 2023-10-24 *Artificial Earth A Genealogy of Planetary Technicity* offers an intellectual history of humanity as a geological force focusing on a prevalent contradiction in the Anthropocene discourse on global environmental change on the one hand it has been argued that there are hardly any pristine environments anymore to the degree that the concept of nature has lost its meaning while on the other that

anthropogenic environmental change has become so prevailing that it ought to be conceived of as a force of nature in the literal sense of the expression Artificial Earth argues that to fully grasp the stakes of this discourse we need not only understand the contemporary scientific and technological transformations behind the Anthropocene but also explore the history of an ontological concern tied up with it In order to do so Artificial Earth examines reflections on the ontological dualism between nature and artifice within the history of earth science from the late eighteenth century onwards Paying particular attention to its consequences for how human subjectivity has been conceptualized in the Anthropocene it then enrolls these resources in an effort to problematize attempts since the 1980s to formalize earth science in systems theoretical terminology In sum the aim is to investigate the historical conditions for the possibility of conceiving human artifice as an integral part of the earth s terrestrial environment with the conviction that such an investigation may assist in resolving the aforementioned contradiction or at least to understand it better by tracing its historical lineage J Daniel Andersson is a post doctoral researcher at the Department for Thematic Studies Linköping University His research interests lie at the intersection between the technical cultures political imaginaries and historical processes that have shaped the ways in which the global environment has been understood and valued A general fascination with how concepts and discursive vocabularies become solidified in scientific modes of organization has consistently informed his theoretical and methodological approaches He has previously written about for instance the relationship between future orientation and valuation in integrated assessment models climate engineering as a sociotechnical imaginary and the intellectual history of risk management in global change science His writing has appeared in journals such as Environment Planning Anthropocenes and Cosmos History

Development and Evolution Stanley N. Salthe, 1993 Development and Evolution surveys and illuminates the key themes of rapidly changing fields and areas of controversy that the redefining the theory and philosophy of biology It continues Stanley Salthe s investigation of evolutionary theory begun in his influential book *Evolving Hierarchical Systems* while negating the implicit philosophical mechanisms of much of that work Here Salthe attempts to reinitiate a theory of biology from the perspective of development rather than from that of evolution recognizing the applicability of general systems thinking to biological and social phenomena and pointing towards a non Darwinian and even a postmodern biology *Science And Society* John Scales Avery, 2016-09-14 The latest advances and discoveries in science have made and continue to make a huge impact on our lives This book is a history of the social impact of science and technology from the beginnings of civilization up to the present The book explains how the key inventions agriculture writing and printing with movable type initiated an explosive growth of knowledge and human power over the environment It also shows how the Industrial Revolution changed the relationship between humans and nature and initiated a massive use of fossil fuels Problems related to nuclear power nuclear weapons genetic engineering information technology exhaustion of non renewable resources use of fossil fuels and climate change are examined in the later chapters of the book Finally the need for ethical maturity to match our scientific

progress is discussed *Music as Cultural Heritage and Novelty* Oana Andreica, 2022-09-13 This book provides a multifaceted view on the relation between the old and the new in music between tradition and innovation This is a much debated issue generating various ideas and theories which rarely come to unanimous conclusions Therefore the book offers diverse perspectives on topics such as national identities narrative strategies the question of musical performance and musical meaning Alongside themes of general interest such as classical repertoire the music of well established composers and musical topics the chapters of the book also touch on specific but equally interesting subjects like Brazilian traditions Serbian and Romanian composers and the lullaby While the book is mostly addressed to researchers it can also be recommended to students in musicology ethnomusicology musical performance and musical semiotics *The Routledge Handbook of Music Signification* Esti Sheinberg, William P. Dougherty, 2020-03-17 The Routledge Handbook of Music Signification captures the richness and complexity of the field presenting 30 essays by recognized international experts that reflect current interdisciplinary and cross disciplinary approaches to the subject Examinations of music signification have been an essential component in thinking about music for millennia but it is only in the last few decades that music signification has been established as an independent area of study During this time the field has grown exponentially incorporating a vast array of methodologies that seek to ground how music means and to explore what it may mean Research in music signification typically embraces concepts and practices imported from semiotics literary criticism linguistics the visual arts philosophy sociology history and psychology among others By bringing together such approaches in transparent groupings that reflect the various contexts in which music is created and experienced and by encouraging critical dialogues this volume provides an authoritative survey of the discipline and a significant advance in inquiries into music signification This book addresses a wide array of readers from scholars who specialize in this and related areas to the general reader who is curious to learn more about the ways in which music makes sense

New Perspectives On Cybernetics Self Organization Autonomy And Connectionism Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **New Perspectives On Cybernetics Self Organization Autonomy And Connectionism**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Written 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 is key themes, examine its writing style, and analyze its overall impact on readers.

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