



# Cybernetics Circular Causal and Feedback Mechanisms in Biological and Social Systems

Von Foerster, Heinz, Ed

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# Cybernetics Circular Causal Feedback M

**James G. Glimm, John  
Impagliazzo, Isadore Singer**



## **Cybernetics Circular Causal Feedback M:**

*The Nature of the Machine and the Collapse of Cybernetics* Alcibiades Malapi-Nelson, 2017-07-03 This book is a philosophical exploration of the theoretical causes behind the collapse of classical cybernetics as well as the lesson that this episode can provide to current emergent technologies Alcibiades Malapi Nelson advances the idea that the cybernetic understanding of the nature of a machine entails ontological and epistemological consequences that created both material and theoretical conundrums However he proposes that given our current state of materials research scientific practices and research tools there might be a way for cybernetics to flourish this time The book starts with a historical and theoretical articulation of cybernetics in order to proceed with a philosophical explanation of its collapse emphasizing the work of Alan Turing Ross Ashby and John von Neumann Subsequently Malapi Nelson unveils the common metaphysical signature shared between cybernetics and emergent technologies identifying this signature as transhumanist in nature Finally avenues of research that may allow these disruptive technologies to circumvent the cybernetic fate are indicated It is proposed that emerging technologies ultimately entail an affirmation of humanity

Harmonies of Disorder Leone Montagnini, 2017-08-19 This book presents the entire body of thought of Norbert Wiener 1894 1964 knowledge of which is essential if one wishes to understand and correctly interpret the age in which we live The focus is in particular on the philosophical and sociological aspects of Wiener's thought but these aspects are carefully framed within the context of his scientific journey Important biographical events including some that were previously unknown are also highlighted but while the book has a biographical structure it is not only a biography The book is divided into four chronological sections the first two of which explore Wiener's development as a philosopher and logician and his brilliant interwar career as a mathematician supported by his philosophical background The third section considers his research during World War II which drew upon his previous scientific work and reflections and led to the birth of cybernetics Finally the radical post war shift in Wiener's intellectual path is considered examining how he came to abandon computer science projects and commenced ceaseless public reflections on the new sciences and technologies of information their social effects and the need for responsibility in science

**Cybernetics, Circular Causal and Feedback Mechanisms in Biological and Social Systems** Heinz Von Foerster, 1955 Cybernetics Heinz von Foerster, 1953 **Systems Science and Cybernetics - Volume III** Francisco Parra-Luna, The subject Systems sciences and cybernetics is the outcome of the convergence of a number of trends in a larger current of thought devoted to the growing complexity of primarily social objects and arising in response to the need for globalized treatment of such objects This has been magnified by the proliferation and publication of all manner of quantitative scientific data on such objects advances in the theories on their inter relations the enormous computational capacity provided by IT hardware and software and the critical revisiting of subject object interaction not to mention the urgent need to control the efficiency of complex systems where efficiency is understood to mean the ability to find a solution

to many social problems including those posed on a planetary scale The result has been the forging of a new academically consolidated scientific trend going by the name of Systems Theory and Cybernetics with a comprehensive multi disciplinary focus and therefore apt for understanding realities still regarded to be inescapably chaotic This subject entry is subdivided into four sections The first an introduction to systemic theories addresses the historic development of the most commonly used systemic approaches from new concepts such as the so called geometry of thinking or the systemic treatment of non systemic identities to the taxonomic entropic axiological and ethical problems deriving from a general systemic cybernetic conceit Hence the focus in this section is on the historic and philosophical aspects of the subject Moreover it may be asserted today that beyond a shadow of a doubt problems in particular problems deriving from human interaction but in general any problem regardless of its nature must be posed from a systemic perspective for otherwise the obstacles to their solution are insurmountable Reaching such a perspective requires taking at least the following well known steps a statement of the problem from the determinant variables or phenomena b adoption of theoretical models showing the interrelationships among such variables c use of the maximum amount of wherever possible quantitative information available on each d placement of the set of variables in an environment that inevitably pre determines the problem That epistemology would explain the substantial development of the systemic cybernetic approach in recent decades The articles in the second section deal in particular with the different methodological approaches developed when confronting real problems from issues that affect humanity as a whole to minor but specific questions arising in human organizations Certain sub themes are discussed by the various authors always from a didactic vantage including problem discovery and diagnosis and development of the respective critical theory the design of ad hoc strategies and methodologies the implementation of both qualitative soft system methodologies and formal and quantitative such as the General System Problem Solver or the axiological operational perspective approaches cross disciplinary integration and suitable methods for broaching psychological cultural and socio political dynamisms The third section is devoted to cybernetics in the present dual meaning of the term on the one hand control of the effectiveness of communication and actions and on the other the processes of self production of knowledge through reflection and the relationship between the observing subject and the observed object when the latter is also observer and the former observed Known as second order cybernetics this provides an avenue for rethinking the validity of knowledge such as for instance when viewed through what is known as bipolar feedback processes through which interactions create novelty complexity and diversity Finally the fourth section centres around artificial and computational intelligence addressing sub themes such as neural networks the simulated annealing that ranges from statistical thermodynamics to combinatory problem solving such as in the explanation of the role of adaptive systems or when discussing the relationship between biological and computational intelligence

*A Normative Foucauldian Mark*

Olssen, 2021-09-27 Inspired by the writings of Michel Foucault Olssen s writings traverse philosophy politics education and

epistemology This book comprises a selection of his papers published in academic journals and books over twenty five years Taken as a whole the papers represent a redirection of the core axioms and directions of western ontology and philosophy in relation to how history the subject and education are theorised within the western philosophical tradition Olssen s writings not only contain a powerful critique and revision of western liberalism from a poststructuralist perspective they both explicate and extend Michel Foucault s challenge to the core axioms and assumptions underpinning western thought As Stephen Ball suggests in his Foreword to this volume Olssen uses Foucault to explore issues Olssen s Foucault is not a lonely nihilist but a troubled provocateur who encourages in us toward the political project of self formation our relation to ourselves and always to others

The Legacy of John Von Neumann James G. Glimm, John Impagliazzo, Isadore Singer, 2006-09-08 The ideas of John von Neumann have had a profound influence on modern mathematics and science One of the great thinkers of our century von Neumann initiated major branches of mathematics from operator algebras to game theory to scientific computing and had a fundamental impact on such areas as self adjoint operators ergodic theory and the foundations of quantum mechanics and numerical analysis and the design of the modern computer This volume contains the proceedings of an AMS Symposium in Pure Mathematics held at Hofstra University in May 1988 The symposium brought together some of the foremost researchers in the wide range of areas in which von Neumann worked These articles illustrate the sweep of von Neumann s ideas and thinking and document their influence on contemporary mathematics In addition some of those who knew von Neumann when he was alive have presented here personal reminiscences about him This book is directed to those interested in operator theory game theory ergodic theory and scientific computing as well as to historians of mathematics and others having an interest in the contemporary history of the mathematical sciences This book will give readers an appreciation for the workings of the mind of one of the mathematical giants of our time

The Cybernetic Brain Andrew Pickering, 2010-04-15 Cybernetics is often thought of as a grim military or industrial science of control But as Andrew Pickering reveals in this beguiling book a much more lively and experimental strain of cybernetics can be traced from the 1940s to the present The Cybernetic Brain explores a largely forgotten group of British thinkers including Grey Walter Ross Ashby Gregory Bateson R D Laing Stafford Beer and Gordon Pask and their singular work in a dazzling array of fields Psychiatry engineering management politics music architecture education tantric yoga the Beats and the sixties counterculture all come into play as Pickering follows the history of cybernetics impact on the world from contemporary robotics and complexity theory to the Chilean economy under Salvador Allende What underpins this fascinating history Pickering contends is a shared but unconventional vision of the world as ultimately unknowable a place where genuine novelty is always emerging And thus Pickering avers the history of cybernetics provides us with an imaginative model of open ended experimentation in stark opposition to the modern urge to achieve domination over nature and each other

**Neurocognitive Mechanisms** Gualtiero Piccinini, 2020 Gualtiero Piccinini presents a systematic and rigorous

philosophical defence of the computational theory of cognition His view posits that cognition involves neural computation within multilevel neurocognitive mechanisms and includes novel ideas about ontology functions neural representation neural computation and consciousness     The Oxford Handbook of Philosophy of Cognitive Science Eric Margolis,Richard Samuels,Stephen P. Stich,2012-02-23 This volume offers an overview of the philosophy of cognitive science that balances breadth and depth with chapters covering every aspect of the psychology and cognitive anthropology     **The Legacy of John von Neumann** American Mathematical Society,1990 The ideas of John von Neumann have had a profound influence on modern mathematics and science One of the great thinkers of our century von Neumann initiated major branches of mathematics from operator algebras to game theory to scientific computing and had a fundamental impact on such areas as self adjoint operators ergodic theory and the foundations of quantum mechanics and numerical analysis and the design of the modern computer This volume contains the proceedings of an AMS Symposium in Pure Mathematics held at Hofstra University in May 1988 The symposium brought together some of the foremost researchers in the wide range of areas in which von Neumann worked These articles illustrate the sweep of von Neumann s ideas and thinking and document their influence on contemporary mathematics In addition some of those who knew von Neumann when he was alive have presented here personal reminiscences about him This book is directed to those interested in operator theory game theory ergodic theory and scientific computing as well as to historians of mathematics and others having an interest in the contemporary history of the mathematical sciences This book will give readers an appreciation for the workings of the mind of one of the mathematical giants of our time     Design Cybernetics Thomas Fischer,Christiane M. Herr,2019-07-30 Design Cybernetics Navigating the New Design cybernetics offers a way of looking at ourselves curious creative and ethical humans as self organising systems that negotiate their own goals in open ended explorations of the previously unknown It is a theory of and for epistemic practices learning designing researching that is deeply committed to the autonomy of others and hence offers no prescriptive methodology Design cybernetics describes design practice as inextricable from conversation a way of enquiring developing shared understanding and reaching the new that harnesses reliable control as well as error and serendipity Recognising circular causality observer dependency and non determinability design cybernetics extends beyond tenets of scientific research into the creative ethical and aesthetic domain From this perspective design is not an ill conceived subset of scientific research Instead scientific research emerges as a particularly restricted subset of the broader human activity of design This volume offers a cross section of design cybernetic theory and practice with contributions ranging across architecture interior lighting studies product design embedded systems design pedagogy design theory social transformation design research epistemology art and poetics as well as theatre and acting Addressing designers design educators and researchers interested in a rigorous practice based epistemology it establishes design cybernetics as a foundational perspective of design research This is a conceptually elegant well structured and comprehensive presentation of

design cybernetics It fills a gap in the literature of the field Ken Friedman Chair Professor Tongji University This book offers a valuable and timely introduction to second order cybernetics as society grapples with complex issues like climate change and rising inequality Joichi Ito Director of the MIT Media Lab

**Foundation and outline of a historical theory of society** Balogh István, 2024-12-16 After his first great deed of creating history man now seems to be working on another great deed of equal importance but perhaps the last to destroy himself by eliminating the conditions of his existence Aware of the consequences he continues to destroy his living environment to wage war against each other to pursue his self destructive passions In the face of the clamorous contradiction expressed in the characterisation they know but do not do the question arises with compelling force what are the driving forces and where do they arise which determine the actions of individuals and groups of people as well as the functioning of the majority of social institutions with such force that they ultimately override the motives the instinct and the discernment of life as well as the conscious sense of danger which are essential to the survival of human life Is there any chance of taming this vexing contradiction

**Complexity Science, Living Systems, and Reflexing Interfaces: New Models and Perspectives** Orsucci, Franco, 2012-09-30 There are new and important advancements in today s complexity theories in ICT and requires an extraordinary perspective on the interaction between living systems and information technologies With human evolution and its continuous link with the development of new tools and environmental changes technological advancements are paving the way for new evolutionary steps Complexity Science Living Systems and Reflexing Interfaces New Models and Perspectives is a collection of research provided by academics and scholars aiming to introduce important advancements in areas such as artificial intelligence evolutionary computation neural networks and much more This scholarly piece will provide contributions that will define the line of development in complexity science

Foundations of Artificial Intelligence and Robotics Wendell H. Chun, 2024-12-24 Artificial intelligence AI is a complicated science that combines philosophy cognitive psychology neuroscience mathematics and logic logicism economics computer science computability and software Meanwhile robotics is an engineering field that compliments AI There can be situations where AI can function without a robot e g Turing Test and robotics without AI e g teleoperation but in many cases each technology requires each other to exhibit a complete system having smart robots and AI being able to control its interactions i e effectors with its environment This book provides a complete history of computing AI and robotics from its early development to state of the art technology providing a roadmap of these complicated and constantly evolving subjects Divided into two volumes covering the progress of symbolic logic and the explosion in learning deep learning in natural language and perception this first volume investigates the coming together of AI the mind and robotics the body and discusses the state of AI today Key Features Provides a complete overview of the topic of AI starting with philosophy psychology neuroscience and logicism and extending to the action of the robots and AI needed for a futuristic society Provides a holistic view of AI and touches on all the misconceptions and tangents to the

technologies through taking a systematic approach Provides a glossary of terms list of notable people and extensive references Provides the interconnections and history of the progress of technology for over 100 years as both the hardware Moore's Law GPUs and software i.e. generative AI have advanced Intended as a complete reference this book is useful to undergraduate and postgraduate students of computing as well as the general reader It can also be used as a textbook by course convenors If you only had one book on AI and robotics this set would be the first reference to acquire and learn about the theory and practice

*Sicht und Einsicht* Heinz Foerster, 2013-07-02      *The Search for a Theory of Cognition* Stefano Franchi, Francesco Bianchini, 2011 Preliminary Material LIFE DEATH AND RESURRECTION OF THE HOMEOSTAT Stefano Franchi THE ONTOLOGY OF THE ENEMY NORBERT WIENER AND THE CYBERNETIC VISION Peter Galison COMPUTERS AS MODELS OF THE MIND ON SIMULATIONS BRAINS AND THE DESIGN OF COMPUTERS Peter Asaro AT THE PERIPHERY OF THE RISING EMPIRE THE CASE OF ITALY 1945-1968 Claudio Pogliano PROCESSING CULTURES STRUCTURALISM IN THE HISTORY OF ARTIFICIAL INTELLIGENCE Patrice Maniglier ARTIFICIAL INTELLIGENCE WITH A NATIONAL FACE AMERICAN AND SOVIET CULTURAL METAPHORS FOR THOUGHT Slava Gerovitch THE CARTESIAN LEIBNIZIAN TURING TEST Francesco Bianchini TURING COMPUTABILITY AND LEIBNIZ COMPUTABILITY Maurizio Matteuzzi LOGICAL INSTRUMENTS REGULAR EXPRESSIONS AI AND THINKING ABOUT THINKING Christopher M. Kelty G. DEL NAGEL MINDS AND MACHINES Solomon Feferman ENTANGLING EFFECTIVE PROCEDURES FROM LOGIC MACHINES TO QUANTUM AUTOMATA Rossella Lupacchini TURING 1948 VS G. DEL 1972 Giorgio Sandri WORKS CITED INDEX ABOUT THE CONTRIBUTORS VIBS

**Cartographies of the Mind** Massimo Marraffa, Mario De Caro, Francesco Ferretti, 2007-06-04 In the last three decades the level of interaction between philosophy and psychology has increased dramatically As a contribution to this trend this book explores some areas in which this interaction has been very productive or at least highly provocative The interaction between philosophy and psychology can be of different kinds For example psychology can be the subject for philosophy of science In such a case the philosopher of science pursues the usual set of issues explanation reduction etc within the special case of psychology Or philosophy can be the source of proposals for improving psychology Vice versa the findings of psychology can be used to criticize philosophical theories and suggest ways to resolve some traditional philosophical questions about the mind such as the nature of mental representation perception emotion memory consciousness and free will The chapters in this book reflect these different forms of interaction in an effort to clarify issues and debates concerning some traditional cognitive capacities The result is a philosophically and scientifically up to date collection of cartographies of the mind

**Advanced Methodologies and Technologies in Media and Communications** Khosrow-Pour, D.B.A., Mehdi, 2018-10-19 Media and communication advancements allow individuals across the globe to connect in the blink of an eye Individuals can share information and collaborate on new projects like never before while also remaining informed on global issues through ever improving media outlets and technologies



Advanced Methodologies and Technologies in Media and Communications provides emerging research on the modern effects of media on cultures individuals and groups While highlighting a range of topics such as social media use and marketing media influence and communication technology this book explores how these advancements shape and further the global society This book is an important resource for media researchers and professionals academics students and communications experts seeking new information on the effective use of modern technology in communication applications **U.S. Armed Forces Medical Journal** ,1953

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