# Cybernetic Seredipity

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# **Cybernetic Creativity**

Giovanni Emanuele Corazza

#### **Cybernetic Creativity:**

The Cyber-Creativity Process Giovanni Emanuele Corazza, 2025-05-23 This edited book explores the process of creating using the seven C s of creativity framework It discusses the creative process as a collaboration between humans and Artificial Intelligence AI here identified as the cyber creativity process Through nine chapters written by leading scholars in the field this collection delves into the rapidly emerging area of Generative AI Gen AI applications and sheds light on the parts of the creative process that will remain fundamentally human throughout the foreseeable future as well as those that will benefit more from AI augmentation Drawing on the dynamic definition of creativity the contents encompass the Dynamic Universal Creative Process DUCP and the DA VINCI model the design principles of Gen AI algorithms the cyber creativity process in education journalism design fashion music and its implications on intellectual property protection A timely reflection on the complex and evolving relation between creativity and technology this volume will interest academics researchers and students alike across humanities social and hard sciences **Unconscious Intelligence in Cybernetic Psychology** Torben Hansen, Henrik Hass, 2023-09-14 This important book examines how the growing field of cybernetic psychology the study of the creative complexity of the mind can be applied to a range of different realms tapping into the unconscious potential within us all Cybernetic psychology integrates theories from various schools of thought bringing them together in one unified theory First developed and described by Danish author and psychotherapist Ole Vedfelt It can be used in therapeutic practice in relation to learning and pedagogics and as a tool for better leadership The 15 chapters within this volume apply the theory to these as well as other areas including ecology creativity mindfulness and scientific enquiry itself Insightful and wide ranging the book will appeal to psychotherapists and those working within mental health as well as students and researchers across Education Psychology and beyond Creativity in Theatre Suzanne Burgoyne, 2018-09-14 People who don't know theatre may think the only creative artist in the field is the playwright with actors directors and designers mere interpreters of the dramatist s vision Historically however creative mastery and power have passed through different hands Sometimes the playwright did the staging In other periods leading actors demanded plays be changed to fatten their roles The late 19th and 20th centuries saw the rise of the director in which director and playwright struggled for creative dominance But no matter where the balance of power rested good theatre artists of all kinds have created powerful experiences for their audience The purpose of this volume is to bridge the interdisciplinary abyss between the study of creativity in theatre drama and in other fields Sharing theories research findings and pedagogical practices the authors and I hope to stimulate discussion among creativity and theatre scholar teachers as well as multidisciplinary research Theatre educators know from experience that performance classes enhance student creativity This volume is the first to bring together perspectives from multiple disciplines on how drama pedagogy facilitates learning creativity Drawing on current findings in cognitive science as well as drama teachers lived experience the contributors analyze how acting techniques train

the imagination allow students to explore alternate identities and discover the confidence to take risks The goal is to stimulate further multidisciplinary investigation of theatre education and creativity with the intention of benefitting both Contemporaneous Issues about Creativity Lisete Barlach, 2025-02-26 Over the last decades scholars and practitioners have studied creativity as the production of original and effective ideas capable of being applied to different fields of existence More recently it has been recognized as one of the most important skills for the 21st century as a differential for professionals and as a basis for innovation Even with this acknowledgement creativity is being challenged by advances in Artificial Intelligence especially generative intelligence which is seen as capable of performing creative activities and eventually replacing human creativity Besides that more and more is said about the role of schools in preparing for this new world by developing creativity to enhance opportunities for work and careers The book goes beyond by introducing the relationship between creativity and mental health defying the standard view which associates creativity with madness and taking creativity as a tool for the rapeutic processes Artificial Intelligence and Creativity T. Dartnall, 2013-04-17 Creativity is one of the least understood aspects of intelligence and is often seen as intuitive and not susceptible to rational enquiry Recently however there has been a resurgence of interest in the area principally in artificial intelligence and cognitive science but also in psychology philosophy computer science logic mathematics sociology and architecture and design This volume brings this work together and provides an overview of this rapidly developing field It addresses a range of issues Can computers be creative Can they help us to understand human creativity How can artificial intelligence AI enhance human creativity. How in particular can it contribute to the sciences of the artificial such as design Does the new wave of AI connectionism geneticism and artificial life offer more promise in these areas than classical symbol handling AI What would the implications be for AI and cognitive science if computers could not be creative These issues are explored in five interrelated parts each of which is introducted and explained by a leading figure in the field Prologue Margaret Boden Part I Foundational Issues Terry Dartnall Part II Creativity and Cognition Graeme S Halford and Robert Levinson Part III Creativity and Connectionism Chris Thornton Part IV Creativity and Design John Gero Part V Human Creativity Enhancement Ernest Edmonds Epiloque Douglas Hofstadter For researchers in AI cognitive science computer science philosophy psychology mathematics logic sociology and architecture and design and anyone interested in the rapidly growing field of artificial intelligence and creativity Computers and Creativity Jon McCormack, Mark d'Inverno, 2012-08-21 This interdisciplinary volume introduces new theories and ideas on creativity from the perspectives of science and art Featuring contributions from leading researchers theorists and artists working in artificial intelligence generative art creative computing music composition and cybernetics the book examines the relationship between computation and creativity from both analytic and practical perspectives Each contributor describes innovative new ways creativity can be understood through and inspired by computers The book tackles critical philosophical questions and discusses the major issues raised by

computational creativity including whether a computer can exhibit creativity independently of its creator what kinds of creativity are possible in light of our knowledge from computational simulation artificial intelligence evolutionary theory and information theory and whether we can begin to automate the evaluation of aesthetics and creativity in silico These important often controversial questions are contextualised by current thinking in computational creative arts practice Leading artistic practitioners discuss their approaches to working creatively with computational systems in a diverse array of media including music sound art visual art and interactivity The volume also includes a comprehensive review of computational aesthetic evaluation and judgement research alongside discussion and insights from pioneering artists working with computation as a creative medium over the last fifty years A distinguishing feature of this volume is that it explains and grounds new theoretical ideas on creativity through practical applications and creative practice Computers and Creativity will appeal to theorists researchers in artificial intelligence generative and evolutionary computing practicing artists and musicians students and any reader generally interested in understanding how computers can impact upon creativity It bridges concepts from computer science psychology neuroscience visual art music and philosophy in an accessible way illustrating how computers are fundamentally changing what we can imagine and create and how we might shape the creativity of the future Computers and Creativity will appeal to theorists researchers in artificial intelligence generative and evolutionary computing practicing artists and musicians students and any reader generally interested in understanding how computers can impact upon creativity It bridges concepts from computer science psychology neuroscience visual art music and philosophy in an accessible way illustrating how computers are fundamentally changing what we can imagine and create and how we might shape the creativity of the future The Creativity Ouestion Albert Rothenberg, Carl R. Hausman, 1976 Albert Rothenberg a psychiatrist and Carl R Hausman a philosopher have prepared a truly comprehensive interdisciplinary book of readings on creativity This group of selections from the works of writers in psychiatry philosophy psychology psychoanalysis and education brings together for the first time major theoretical works outstanding empirical findings and discussions of the definition and nature of creativity The organization of The Creativity Question is unique it illustrates the various approaches and basic assumptions underlying studies of creativity throughout the course of history up to the present time The main body of selections appears under the categories of descriptions attempts at explanation and alternate approaches As specific orientations to creativity can be traced to particular initiating thinkers and investigators there is a special chapter on seminal accounts containing selections from the works of Plato Aristotle Kant Galton and Freud Another chapter includes recent illustrations of special types of exploratory trends creativity of women brain research synectics extrasensory perception behaviorism and creativity computer programming This organization highlights the tension between strictly scientific accounts and alternative approaches offering new ways of understanding The editors have provided for the books as a whole and for each chapter explanation and discussion of the basic issues raised

by the various approaches to creativity Creativity, a Continuing Inventory of Knowledge ,1981 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 **Cybernetic Creativity** Harold A. Rothbart, 1972 Perspectives in Creativity Irving A. Taylor, Jacob W. Getzels. ICONQUHAS 2018 Yusuf Rahman, Irma Riyani, Kusmana, Dadang Darmawan, Izzah Faizah Siti Rusydati Khairani, Jajang A Rohmana, 2018-10-02 Proceedings of the 2nd International Conference on Quran and Hadith Studies Information Technology and Media in Conjunction with the 1st International Conference on Islam Science and Technology ICONQUHAS ICONIST Bandung October 2 4 2018 Indonesia Now days Multimedia devices offer opportunities in transforming the Quran and Hadith into different forms of use and into extended areas of studies Technology information offers challenges as well as opportunity Therefore Faculty of Ushuluddin UIN the State Islamic University Syarif Hidayatullah Jakarta of UIN Sunan Gunung Djati Bandung and UIN Maulana Malik Ibrahim Malang held jointly the 2nd International Conference on Qur an and Hadith Studies ICONQUHAS 2018 and the 1st International Conference on Islam Science and Technology ICONIST2018 with the theme Qur an Hadith Information Technology and Media Challenges and Opportunities This conference aims at bringing together scholars and researchers to share their knowledge and their research findings This publication resulted from the selected papers of these conferences International Encyclopedia of Systems and Cybernetics Charles François, 2011-12-07 No detailed description available for International Encyclopedia of Systems and

Cybernetics From the Mental State of Noise to the New Frontiers of Techno-Human Cognition Cécile Malaspina, 2025-09-29 At the intersection of humanities and science this book re examines noise as a fundamental force in shaping contemporary thought and digital culture Anchored by the republication of Steven Sands and John Ratey s influential 1986 article The concept of noise this volume explores how noise transcends its traditional definition as unwanted sound or mere signal interference to become a generative force in our increasingly complex digitised world. The book brings together leading thinkers including Catherine Malabou Rosa Menkman and Yuk Hui to investigate noise across multiple domains from semantic disruptions in Large Language Models to the algorithmic unconscious from gaming platforms to glitch aesthetics and from protest movements to post semiotic French theory Building on Sands and Ratey's pioneering concept of the mental state of noise it reveals how noise functions also as a catalyst for emergence creativity and transformative change in contemporary society The chapters in this interdisciplinary collection challenge conventional understandings of complex systems cognition and computation offering fresh perspectives on the relationship between human thought and technological advancement By positioning noise as central to 21st century techno human cognition and cultural evolution this volume opens new pathways for understanding the intersection of mind machine and meaning Essential reading for scholars and students in contemporary philosophy science and technology studies media and cultural studies digital humanities and digital arts this volume demonstrates how noise has become instrumental in reshaping our understanding of the modern world and its possibilities It was originally published as a special issue of Angelaki Computer Mediated Inter- and Intra- Personal Communication .1976 AI and the Future of Creative Work Michael Filimowicz, 2023-05-26 This book focuses on the intelligent technologies that are transforming creative practices and industries. The future of creative work will be more complicated than the robots will take our jobs The workplace is becoming increasingly hybridized with human and computational labor complementing each other Some economic roles for the former will no doubt fade over time while new roles are created to produce artificial intelligence AI related technologies and implementations for productivity New tools for the generation and personalization of content across platforms will be as ubiquitous as the automation of repetitive tasks in content creation workflows Cultural conceptions of what it means to be a creative worker will necessarily change as a result of these transformations in human machine labor The volume covers the possibilities of humans and robots developing collegial relationships creative cybernetics as machines and artists become co creators of art the reconcentration of corporate power as AI transforms the music industry the rhetoric of algorithm driven cultural production in streaming media and how artisans provide a model of counter hegemony to automation processes Scholars and students from many backgrounds as well as policy makers journalists and the general reading public will find a multidisciplinary approach to questions posed by creative labor and industry research from communication philosophy robotics media music and the creative arts informatics information science and computer science and engineering Systems Science and Cybernetics -

Volume II Francisco Parra-Luna, 2009-10-30 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 World Organization of Systems and Cybernetics 18. Congress-WOSC2021 Igor Perko, Raul Espejo, Vladimir Lepskiy, Dmitry A. Novikov, 2022-08-30 Important world institutions such as the United Nations UN the World Health Organization WHO the International Energy Agency IEA and the Organization for Economic Co operation and Development OECD have publicly recognizing the highly interconnected nature of our world and therefore the relevance of systemic thinking and cybernetics as leading knowledge foundations to deal with the complexity of economic social and environmental issues This recognition was the driving force of the Internet discussions held by participants to the World Organisation of Systems and Cybernetics 18th Congress which last September 27 to 29 WOSC 2021 More than ever we needed to debate and develop current ontological epistemological and methodological approaches to the understanding of the future of humanity WOSC organized this event in collaboration with the Russian Academy of Sciences RAS Scientists of this Academy together with scientists from all over the world made contributions to improving communications beyond particular nation states and regions toward the clarification of global issues like governance health education technology art and others Our aim in WOSC 2021 was bringing together scientists and researchers to collaborative debates at all levels from local communities to global societies At the end of the Congress scientists were invited to submit contributions to this Springer Nature book along the following four themes firstly philosophical and methodological foundations for the development of the systems approach and cybernetics secondly the cybernetics of society ecology and governance thirdly digital technologies and physical realities merging into a hybrid reality and fourthly the transdisciplinarity of systems sciences and cybernetics applied to the further development of knowledge areas such as education embodiment of social policies and the arts About 25 contributions were accepted for publication in this book We see this as one of WOSC s important contribution to the scientific community around the world

**Cybernetics of Art** M. J. Rosenberg,2024-07-31 First published in 1983 Cybernetics of Art uses the methodology and concepts of cybernetics to explore art and the creative process Part I surveys the domain that includes both science and the arts attempting to understand their differing viewpoints and the basis of conflicts between them Art is approached as a method of knowledge aimed at knowledge of experience per se as distinct from knowledge derived through experience Part II poses the problem of notionally constructing an authorship machine and develops the technical argument by exploring the question of the kind of machine it would need to be Part III examines the products of such a machine with a view to finding criteria for distinguishing those that might be called art An extended non technical commentary accompanies the text

throughout with the dual aim of comparing the book s technical conclusions with ideas expressed by critiques and practicing artists and assisting readers unfamiliar with the information sciences in following the argument In a world dominated by artificial intelligence this interdisciplinary book will be useful for scholars and researchers of cybernetics art and humanities and social sciences in general Proceedings of the 2011 International Conference on Informatics, Cybernetics, and Computer Engineering (ICCE2011) November 19-20, 2011, Melbourne, Australia Liangzhong Jiang, 2011-11-24 The volume includes a set of selected papers extended and revised from the International Conference on Informatics Cybernetics and Computer Engineering Intelligent control is a class of control techniques that use various AI computing approaches like neural networks Bayesian probability fuzzy logic machine learning evolutionary computation and genetic algorithms Intelligent control can be divided into the following major sub domains Neural network control Bayesian control Fuzzy logic control Neuro fuzzy control Expert Systems Genetic control Intelligent agents Cognitive Conscious control New control techniques are created continuously as new models of intelligent behavior are created and computational methods developed to support them Networks may be classified according to a wide variety of characteristics such as medium used to transport the data communications protocol used scale topology organizational scope etc ICCE 2011 Volume 1 is to provide a forum for researchers educators engineers and government officials involved in the general areas of Intelligent Control and Network Communication to disseminate their latest research results and exchange views on the future research directions of these fields 90 high quality papers are included in the volume Each paper has been peer reviewed by at least 2 program committee members and selected by the volume editor Special thanks to editors staff of association and every participants of the conference It's you make the conference a success We look forward to meeting you next year

This book delves into Cybernetic Creativity. Cybernetic Creativity is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Cybernetic Creativity, encompassing both the fundamentals and more intricate discussions.

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