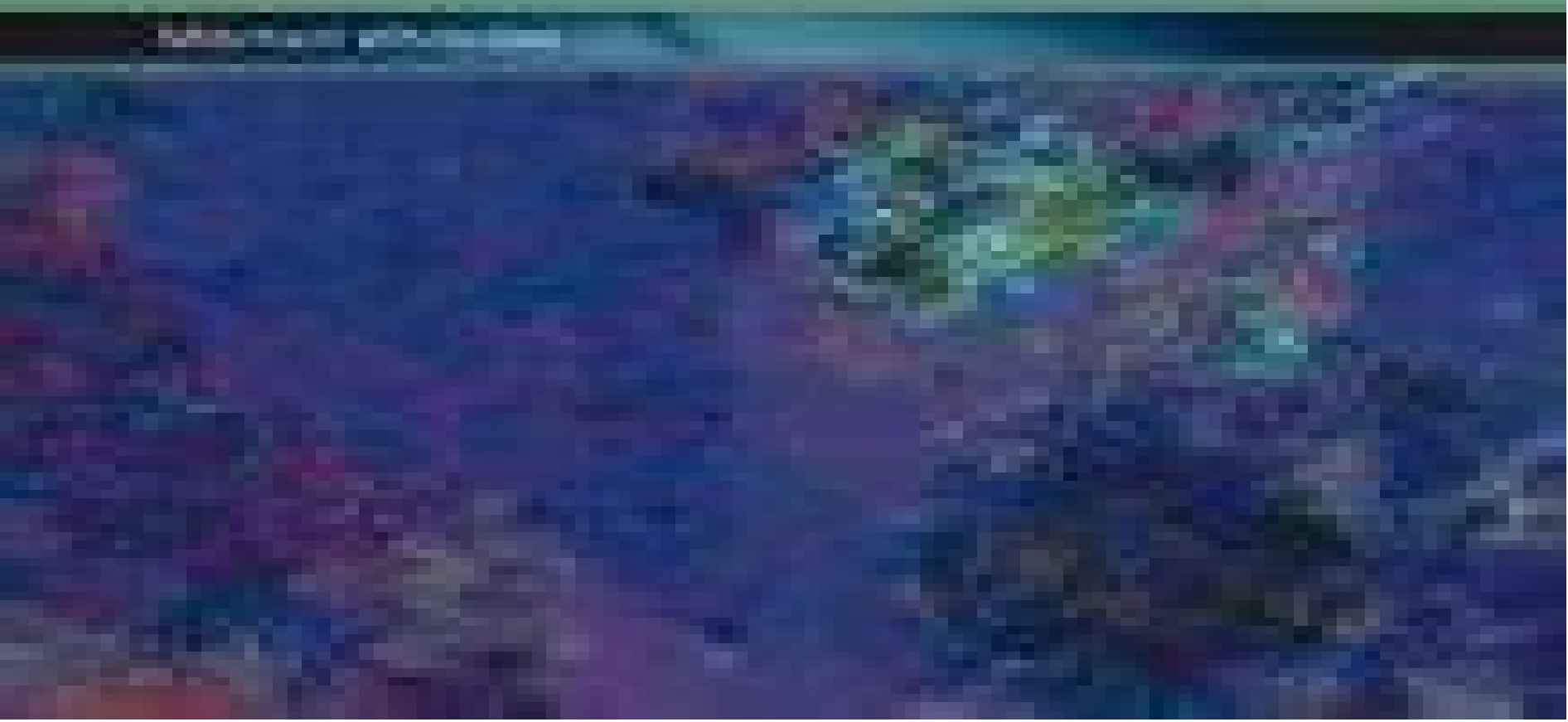


Metacreation

Art about Artificial Life



Metacreation Art And Artificial Life

Golan Levin, Tega Brain



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Metacreation Mitchell Whitelaw, 2004 The first detailed examination of a life art where new media artists adopt and adapt techniques from artificial life **Advances in Artificial Life** Fernando Almeida e Costa, 2007-09-04 This book constitutes the refereed proceedings of the 9th European Conference on Artificial Life ECAL 2007 held in Lisbon Portugal The 125 revised full papers cover morphogenesis and development robotics and autonomous agents evolutionary computation and theory cellular automata models of biological systems and their applications ant colony and swarm systems evolution of communication simulation of social interactions self replication artificial chemistry *A-Life for Music* Eduardo Reck Miranda, 2011-01-01 Artificial Life or A Life aims at the study of all phenomena characteristic of natural living systems through computational modeling wetware hardware hybrids and other artificial media Its scope ranges from the investigation of the emergence of cognitive processes in natural or artificial systems to the development of life or life like properties from inorganic components A number of musicians in particular composers and musicologists have started to turn to A Life for inspiration and working methodology This edited volume features thirteen chapters written by researchers and practitioners in this exciting emerging field of computer music and includes a CD with various examples music related to A Life

Mexican Media Art, Ecologies, the Posthuman, and Politics Claudia Costa Pederson, 2025-03-31 This volume focuses on the connection between ecological thought and the technological arts in Mexico in order to challenge assumptions that ecological thought is a domain exclusive to the arts of the Global North and reconceive it as an inventive nexus of materialist speculations into a global posthuman world Tracking the concept of ecology through a series of case studies taken from the histories of new media arts in Mexico over the last 50 years from the mid twentieth century to the present this book differs from ecological art histories that either ignore technological art or associate it exclusively with the Global North It includes artists and collectives working both in Mexico and transnationally and examines collaborative projects responding to anthropogenic environmental degradation in Mexico and elsewhere The book will be of interest to scholars working in art history Latin American studies media studies and environmental studies **Interactive Experience in the Digital Age** Linda Candy, Sam Ferguson, 2014-03-28 The use of interactive technology in the arts has changed the audience from viewer to participant and in doing so is transforming the nature of experience From visual and sound art to performance and gaming the boundaries of what is possible for creation curating production and distribution are continually extending As a consequence we need to reconsider the way in which these practices are evaluated Interactive Experience in the Digital Age explores diverse ways of creating and evaluating interactive digital art through the eyes of the practitioners who are embedding evaluation in their creative process as a way of revealing and enhancing their practice It draws on research methods from other disciplines such as interaction design human computer interaction and practice based research more generally and adapts them to develop new strategies and techniques for how we reflect upon and assess value in the creation

and experience of interactive art With contributions from artists scientists curators entrepreneurs and designers engaged in the creative arts this book is an invaluable resource for both researchers and practitioners working in this emerging field

Post-Apocalyptic Cultures Julia Urabayan,Jorge León Casero,2024-03-19 This book advocates for the necessity of recovering the value of utopias as political projects that open new channels of action The criticism of modern political utopias is based on the supposed impossibility of creating for the future because there is no longer a future apocalyptic ideology However this edited collection seeks to show that the post apocalyptic world in which we live entails a renewed freedom of design for the radical reorganization of institutions Post apocalyptic cultures are not obligated to follow the capitalist anthropocentric correlationist and sovereign modes of the old political project of emancipation the Western enlightenment that has started to collapse With this in mind this book is divided into four sections dedicated to the main themes from which to rethink the projects of political emancipation that are possible nowadays technopolitics posthumanist biopolitics non western politicsl and the crossover between arts and politics

Applications of Evolutionary Computation Cecilia Di Chio,Anthony Brabazon,Marc Ebner,Muddassar Farooq,Andreas Fink,Jörn Grahl,Gary Greenfield,Penousal Machado,Michael O'Neill,Ernesto Tarantino,Neil Urquhart,2010-04-03 Evolutionary computation EC techniques are efficient nature inspired methods based on the principles of natural evolution and genetics Due to their efficiency and simple underlying principles these methods can be used for a diverse range of activities including problem solving optimization machine learning and pattern recognition A large and continuously increasing number of researchers and professionals make use of EC techniques in various application domains This volume presents a careful selection of relevant EC examples combined with a thorough examination of the techniques used in EC The papers in the volume illustrate the current state of the art in the application of EC and should help and inspire researchers and professionals to develop efficient EC methods for design and problem solving All papers in this book were presented during EvoApplications 2010 which included a range of events on application oriented aspects of EC Since 1998 EvoApplications formerly known as EvoWorkshops has provided a unique opportunity for EC researchers to meet and discuss application aspects of EC and has been an important link between EC research and its application in a variety of domains During these 12 years new events have arisen some have disappeared while others have matured to become conferences of their own such as EuroGP in 2000 EvoCOP in 2004 and EvoBIO in 2007 And from this year EvoApplications has become a conference as well

A Companion to Contemporary Art Since 1945 Amelia Jones,2009-02-09 A Companion to Contemporary Art is a major survey covering the major works and movements the most important theoretical developments and the historical social political and aesthetic issues in contemporary art since 1945 primarily in the Euro American context Collects 27 original essays by expert scholars describing the current state of scholarship in art history and visual studies and pointing to future directions in the field Contains dual chronological and thematic coverage of the major themes in the art of our time politics culture wars public space diaspora the artist identity

politics the body and visual culture Offers synthetic analysis as well as new approaches to debates central to the visual arts since 1945 such as those addressing formalism the avant garde the role of the artist technology and art and the society of the spectacle

The Language of Creative AI Craig Vear, Fabrizio Poltronieri, 2022-11-05 Creative AI defines art and media practices that have AI embedded into the process of creation but also encompass novel AI approaches in the realisation and experience of such work e g robotic art distributed AI artworks across locations AI performers artificial musicians synthetic images generated by neural networks AI authors and journalist bots This book builds on the discourse of AI and creativity and extends the notion of embedded and co operative creativity with intelligent software It does so through a human centred approach in which AI is empowered to make the human experience more creative It presents ways of thinking and doing by the creators themselves so as to add to the ongoing discussion of AI and creativity at a time when the field needs to expand its thinking This will avoid over academization of this emerging field and help counter engrained prejudice and bias The Language of Creative AI contains technical descriptions theoretical frameworks philosophical concepts and practice based case studies It is a compendium of thinking around creative AI for technologists human computer interaction researchers and artists who are wishing to explore the creative potential of AI

Brain Art Anton Nijholt, 2019-05-25 This is the first book on brain computer interfaces BCI that aims to explain how these BCI interfaces can be used for artistic goals Devices that measure changes in brain activity in various regions of our brain are available and they make it possible to investigate how brain activity is related to experiencing and creating art Brain activity can also be monitored in order to find out about the affective state of a performer or bystander and use this knowledge to create or adapt an interactive multi sensorial audio visual tactile piece of art Making use of the measured affective state is just one of the possible ways to use BCI for artistic expression We can also stimulate brain activity It can be evoked externally by exposing our brain to external events whether they are visual auditory or tactile Knowing about the stimuli and the effect on the brain makes it possible to translate such external stimuli to decisions and commands that help to design implement or adapt an artistic performance or interactive installation Stimulating brain activity can also be done internally Brain activity can be voluntarily manipulated and changes can be translated into computer commands to realize an artistic vision The chapters in this book have been written by researchers in human computer interaction brain computer interaction neuroscience psychology and social sciences often in cooperation with artists using BCI in their work It is the perfect book for those seeking to learn about brain computer interfaces used for artistic applications

The Art of Art History Donald Preziosi, 2009-02-26 What is art history Why how and where did it originate and how have its methods changed over time The history of art has been written and rewritten since classical antiquity Since the foundation of the modern discipline of art history in Germany in the late eighteenth century debates about art and its histories have intensified Historians philosophers psychologists and anthropologists among others have changed our notions of what art history has been is and might be This anthology is a guide to understanding art

history through critical reading of the field's most innovative and influential texts focusing on the past two centuries Each section focuses on a key issue art as history aesthetics form content and style anthropology meaning and interpretation authorship and identity and the phenomenon of globalization More than thirty readings from writers as diverse as Winckelmann Kant Mary Kelly and Michel Foucault are brought together with editorial introductions to each topic providing background information bibliographies and critical elucidations of the issues at stake This updated and expanded edition contains sixteen newly included extracts from key thinkers in the history of art from Giorgio Vasari to Walter Benjamin and Satya Mohanty a new section on globalization and also a new concluding essay from Donald Preziosi on the tasks of the art historian today

Shifting Interfaces Hava Aldouby, 2020-05-13 Early 21st century media arts are addressing the anxieties of an age shadowed by ubiquitous surveillance big data profiling and globalised translocations of people Altogether they tap the overwhelming changes in our lived experience of self body and intersubjective relations *Shifting Interfaces* addresses current exciting exchanges between art science and emerging technologies highlighting a range of concerns that currently prevail in the field of media arts This book provides an up to date perspective on the field with a considerable representation of art based research gaining salience in media art studies The collection attends to art projects interrogating the destabilisation of identity and the breaching of individual privacy the rekindled interest in phenomenology and in the neurocognitive workings of empathy and the routes of interconnectivity beyond the human in the age of the Internet of Things Offering a diversity of perspectives ranging from purely theoretical to art based research and from aesthetics to social and cultural critique this volume will be of great value for readers interested in contemporary art art science technology interfaces visual culture and cultural studies

Code as Creative Medium Golan Levin, Tega Brain, 2021-02-02 An essential guide for teaching and learning computational art and design exercises assignments interviews and more than 170 illustrations of creative work This book is an essential resource for art educators and practitioners who want to explore code as a creative medium and serves as a guide for computer scientists transitioning from STEM to STEAM in their syllabi or practice It provides a collection of classic creative coding prompts and assignments accompanied by annotated examples of both classic and contemporary projects and more than 170 illustrations of creative work and features a set of interviews with leading educators Picking up where standard programming guides leave off the authors highlight alternative programming pedagogies suitable for the art and design oriented classroom including teaching approaches resources and community support structures

Explorations in Art and Technology Linda Candy, Ernest Edmonds, Fabrizio Poltronieri, 2018-10-04 *Explorations in Art and Technology* presents the explorations in Art and Technology of the Creativity Cognition Research Studios The Studios were created to bring together the visions and expertise of people working at the boundaries of art and digital media The book explores the nature of intersection and correspondence across these disciplinary boundaries practices and conceptual frameworks through artists illustrated contributions and studies of work in progress These experiences are

placed within the context of recent digital art history and the innovations of early pioneers *Evolutionary and Biologically Inspired Music, Sound, Art and Design* Penousal Machado, James McDermott, Adrian Carballal, 2013-03-14 This book constitutes the refereed proceedings of the Second International Conference on Biologically Inspired Music Sound Art and Design EvoMUSART 2013 held in Vienna Austria in March 2013 colocated with the Evo 2013 events EuroGP EvoCOP EvoBIO and EvoApplications The 11 revised full papers and 5 poster papers presented were carefully reviewed and selected from 36 submissions They cover a wide range of topics and application areas including generative approaches to music graphics game content and narrative robot gait creation music information retrieval computational aesthetics the mechanics of interactive evolutionary computation and the art theory of evolutionary computation **Applications of Evolutionary Computing** Mario Giacobini, Anthony Brabazon, Stefano Cagnoni, Aniko Ekart, Anna I. Esparcia-Alcázar, Muddassar Farooq, Andreas Fink, Penousal Machado, Jon McCormack, Michael O'Neill, Ferrante Neri, Mike Preuss, Franz Rothlauf, Ernesto Tarantino, Shengxiang Yang, 2009-04-11 The year 2009 celebrates the bicentenary of Darwin's birth and the 150th anniversary of the publication of his seminal work *On the Origin of Species* If this makes 2009 a special year for the research community working in biology and evolution the field of evolutionary computation EC also shares the same excitement EC techniques are efficient nature inspired planning and optimization methods based on the principles of natural evolution and genetics Due to their efficiency and simple underlying principles these methods can be used in the context of problem solving optimization and machine learning A large and ever increasing number of researchers and professionals make use of EC techniques in various application domains This volume presents a careful selection of relevant EC applications combined with a thorough examination of the techniques used in EC The papers in the volume illustrate the current state of the art in the application of EC and can help and inspire researchers and professionals to develop efficient EC methods for design and problem solving **Possible Futures** Ana Gonçalves Magalhães, Giselle Beiguelman, 2014-01-01 This book discusses strategies and methodologies for the storage and preservation of digital art and processes of collections digitization also including studies on the new forms of organization and availability of information in data visualization systems Furthermore Possible Futures presents case studies and reflections on the rise of database aesthetics and the emerging field of information curatorship The book was published in a copublishing agreement with Edusp [The Scar of Visibility](#) Petra Kupperts, 2007 In *The Scar of Visibility* Petra Kupperts examines the use of medical imagery practices in contemporary art as well as different arts of everyday life Among the works she investigates are the controversial *Body Worlds* exhibition of plastinized corpses films like David Cronenberg's *Crash* that fetishize body wounds representations of the AIDS virus on *CSI Crime Scene Investigations* and the paintings of outsider artist Martin Ramirez [Art in the Age of Machine Learning](#) Sofian Audry, 2021-11-23 An examination of machine learning art and its practice in new media art and music Over the past decade an artistic movement has emerged that draws on machine learning as both inspiration and medium In this book transdisciplinary artist researcher Sofian Audry examines

artistic practices at the intersection of machine learning and new media art providing conceptual tools and historical perspectives for new media artists musicians composers writers curators and theorists Audry looks at works from a broad range of practices including new media installation robotic art visual art electronic music and sound and electronic literature connecting machine learning art to such earlier artistic practices as cybernetics art artificial life art and evolutionary art Machine learning underlies computational systems that are biologically inspired statistically driven agent based networked entities that program themselves Audry explains the fundamental design of machine learning algorithmic structures in terms accessible to the nonspecialist while framing these technologies within larger historical and conceptual spaces Audry debunks myths about machine learning art including the ideas that machine learning can create art without artists and that machine learning will soon bring about superhuman intelligence and creativity Audry considers learning procedures describing how artists hijack the training process by playing with evaluative functions discusses trainable machines and models explaining how different types of machine learning systems enable different kinds of artistic practices and reviews the role of data in machine learning art showing how artists use data as a raw material to steer learning systems and arguing that machine learning allows for novel forms of algorithmic remixes Sounding the Limits of Life Stefan Helmreich, 2015-10-27 What is life What is water What is sound In Sounding the Limits of Life anthropologist Stefan Helmreich investigates how contemporary scientists biologists oceanographers and audio engineers are redefining these crucial concepts Life water and sound are phenomena at once empirical and abstract material and formal scientific and social In the age of synthetic biology rising sea levels and new technologies of listening these phenomena stretch toward their conceptual snapping points breaching the boundaries between the natural cultural and virtual Through examinations of the computational life sciences marine biology astrobiology acoustics and more Helmreich follows scientists to the limits of these categories Along the way he offers critical accounts of such other than human entities as digital life forms microbes coral reefs whales seawater extraterrestrials tsunamis seashells and bionic cochlea He develops a new notion of sounding as investigating fathoming listening to describe the form of inquiry appropriate for tracking meanings and practices of the biological aquatic and sonic in a time of global change and climate crisis Sounding the Limits of Life shows that life water and sound no longer mean what they once did and that what count as their essential natures are under dynamic revision

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