

Eduardo Reck Miranda  
John Al Biles (Eds)

# Evolutionary Computer Music

 Springer



# Evolutionary Computer Music

**Kathleen Armour**



## **Evolutionary Computer Music:**

*Evolutionary Computer Music* Eduardo Reck Miranda, John Al Biles, 2007-04-26 This book discusses the applications of evolutionary computation to music and the tools needed to create and study such systems These tools can be combined to create surrogate artificial worlds populated by interacting simulated organisms in which complex musical experiments can be performed The book demonstrates that evolutionary systems can be used to create and to study musical compositions and cultures in ways that have never before been achieved

**Evolutionary Computer Music** Eduardo Reck Miranda, John Al Biles, 2009-10-12 This book discusses the applications of evolutionary computation to music and the tools needed to create and study such systems These tools can be combined to create surrogate artificial worlds populated by interacting simulated organisms in which complex musical experiments can be performed The book demonstrates that evolutionary systems can be used to create and to study musical compositions and cultures in ways that have never before been achieved

**Proceedings of the ... International Computer Music Conference**, 2005 *Evolutionary and Biologically Inspired Music, Sound, Art and Design* Colin Johnson, Adrian Carballal, João Correia, 2015-03-14 This book constitutes the refereed proceedings of the 4th International Conference on Biologically Inspired Music Sound Art and Design EvoMUSART 2015 held in Copenhagen Denmark in April 2015 co located with the Evo 2015 events EuroGP EvoCOP and Evo Applications The 23 revised full papers presented were carefully reviewed and selected from 43 submissions They cover a wide range of topics and application areas including generative approaches to music graphics game content and narrative music information retrieval computational aesthetics the mechanics of interactive evolutionary computation and the art theory of evolutionary computation

*Swarm and Evolutionary computation* Leszek Rutkowski, Marcin Korytkowski, Rafał Scherer, Ryszard Tadeusiewicz, Lotfi Zadeh, Jacek Zurada, 2012-04-15 The volume LNCS 7269 constitutes the refereed proceedings of the International Symposium on Swarm Intelligence and Differential Evolution SIDE 2012 held in Zakopane Poland in April May 2012 in conjunction with the 11th International Conference on Artificial Intelligence and Soft Computing ICAISC 2012 proceedings published as two volume set LNAI 7267 and 7268 The 212 revised full papers presented were carefully reviewed and selected from 483 submissions The volume is divided into two topical parts proceedings of the 2012 symposium on swarm intelligence and differential evolution and on evolutionary algorithms and their applications

**Musical Networks** Niall Griffith, Peter M. Todd, 1999 This volume presents the most up to date collection of neural network models of music and creativity gathered together in one place Chapters by leaders in the field cover new connectionist models of pitch perception tonality musical streaming sequential and hierarchical melodic structure composition harmonization rhythmic analysis sound generation and creative evolution The collection combines journal papers on connectionist modeling cognitive science and music perception with new papers solicited for this volume It also contains an extensive bibliography of related work

Contributors Shumeet Baluja M I Bellgard Michael A Casey Garrison W Cottrell Peter Desain Robert O Gjerdingen Mike

Greenhough Niall Griffith Stephen Grossberg Henkjan Honing Todd Jochem Bruce F Katz John F Kolen Edward W Large Michael C Mozer Michael P A Page Caroline Palmer Jordan B Pollack Dean Pomerleau Stephen W Smoliar Ian Taylor Peter M Todd C P Tsang Gregory M Werner      **Creative Evolutionary Systems** Peter Bentley, David W. Corne, 2002 Written for computer scientists and students and computer literate artists designers and specialists in evolutionary computation this text brings together the most advanced work in the use of evolutionary computation for creative results      *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      *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*

*Applications of Evolutionary Computation* Cecilia Di Chio, 2011-04-19 This book constitutes the refereed proceedings of the International Conference on the Applications of Evolutionary Computation EvoApplications 2011 held in Torino Italy in April 2011 colocated with the Evo 2011 events Thanks to the large number of submissions received the proceedings for EvoApplications 2011 are divided across two volumes LNCS 6624 and 6625 The present volume contains contributions for EvoCOMNET EvoFIN EvoIHOT EvoMUSART EvoSTIM and EvoTRANSLOC The 51 revised full papers presented were carefully reviewed and selected from numerous submissions This volume presents an overview about the latest research in EC Areas where evolutionary computation techniques have been applied range from telecommunication networks to complex

systems finance and economics games image analysis evolutionary music and art parameter optimization scheduling and logistics These papers may provide guidelines to help new researchers tackling their own problem using EC     **Artificial Intelligence and the Arts** Penousal Machado, Juan Romero, Gary Greenfield, 2021-10-13 Emotions creativity aesthetics artistic behavior divergent thoughts and curiosity are both fundamental to the human experience and instrumental in the development of human centered artificial intelligence systems that can relate communicate and understand human motivations desires and needs In this book the editors put forward two core propositions creative artistic behavior is one of the key challenges of artificial intelligence research and computer assisted creativity and human centered artificial intelligence systems are the driving forces for research in this area The invited chapters examine computational creativity and more specifically systems that exhibit artistic behavior or can improve humans creative and artistic abilities The authors synthesize and reflect on current trends identify core challenges and opportunities and present novel contributions and applications in domains such as the visual arts music 3D environments and games The book will be valuable for researchers creatives and others engaged with the relationship between artificial intelligence and the arts     **Nature-Inspired Computation and Swarm Intelligence** Xin-She Yang, 2020-04-10 Nature inspired computation and swarm intelligence have become popular and effective tools for solving problems in optimization computational intelligence soft computing and data science Recently the literature in the field has expanded rapidly with new algorithms and applications emerging Nature Inspired Computation and Swarm Intelligence Algorithms Theory and Applications is a timely reference giving a comprehensive review of relevant state of the art developments in algorithms theory and applications of nature inspired algorithms and swarm intelligence It reviews and documents the new developments focusing on nature inspired algorithms and their theoretical analysis as well as providing a guide to their implementation The book includes case studies of diverse real world applications balancing explanation of the theory with practical implementation Nature Inspired Computation and Swarm Intelligence Algorithms Theory and Applications is suitable for researchers and graduate students in computer science engineering data science and management science who want a comprehensive review of algorithms theory and implementation within the fields of nature inspired computation and swarm intelligence     **Swarm Systems in Art and Architecture** Mahsoo Salimi, 2021-10-19 This book presents the recent computational developments inspired by swarms in art known as swarm art and discusses applying swarm intelligence concepts in architecture Non human art is a great leap in the evolution of contemporary art removing the requirement of an artist s production from the creative process Furthermore it is a critical declaration in opposition to the anthropomorphic vision which is so destructive for all other life forms and the planet s ecology When accepted and integrated into human culture non human art done by artificial systems or machines boosts creativity and stimulates innovative fusions We analyze 120 swarm systems with unique and diverse conceptual contexts agent design and audience engagement that can be utilized as inspiration for future projects or to design new

swarm algorithms by artists architects or computer scientists

### **Applications of Evolutionary Computing** Franz

Rothlauf, Jürgen Branke, Stefano Cagnoni, David W. Corne, Rolf Drechsler, Yaochu Jin, Penousal Machado, Elena Marchiori, Juan Romero, George D. Smith, Giovanni Squillero, 2005-03-31 Evolutionary computation EC techniques are efficient nature inspired planning and optimization methods based on the principles of natural evolution and genetics Due to their efficiency and the simple underlying principles these methods can be used for a large number of problems in the context of problem solving optimization and machine learning A large and continuously increasing number of researchers and practitioners make use of EC techniques in many application domains The book at hand presents a careful selection of relevant EC applications combined with thorough examinations of techniques for a successful application of EC The presented papers illustrate the current state of the art in the application of EC and should help and inspire researchers and practitioners to develop efficient EC methods for design and problem solving All papers in this book were presented during EvoWorkshops 2005 which was a varying collection of workshops on application oriented aspects of EC Since 1999 the format of the EvoWorkshops has proved to be very successful and well representative of the advances in the application of EC Consequently over the last few years EvoWorkshops has become one of the major events addressing the application of EC In contrast to other large conferences in the EC field the EvoWorkshops focus solely on application aspects of EC and are an important link between EC research and the application of EC in a large variety of different domains

### **Advances in Artificial Life** György Kampis, István

Karsai, Eörs Szathmáry, 2011-05-24 The two volume set LNAI 5777 and LNAI 5778 constitutes the thoroughly refereed post conference proceedings of the 10th European Conference ECAI 2009 held in Budapest Hungary in September 2009 The 141 revised full papers presented were carefully reviewed and selected from 161 submissions The papers are organized in topical sections on evolutionary developmental biology and hardware evolutionary robotics protocells and prebiotic chemistry systems biology artificial chemistry and neuroscience group selection ecosystems and evolution algorithms and evolutionary computation philosophy and arts optimization action and agent connectivity and swarm intelligence

### **Controls and Art** Amy

LaViers, Magnus Egerstedt, 2014-01-23 Dancing humanoids robotic art installations and music generated by mathematically precise methods are no longer science fiction in fact they are the subject of this book This first of its kind anthology assembles technical research that makes such creations possible In order to mechanize something as enigmatic and personal as dance researchers must delve deeply into two distinct academic disciplines control theory and art Broadly this research uses techniques from the world of art to inspire methods in control enables artistic endeavours using advanced control theory and aids in the analysis of art using metrics devised by a systems theoretic approach To ensure that artistic influences are well represented the individual chapters are focused so that they relate their contribution to the arts meaningfully and explicitly Specially composed introductions set up the contributions either in terms of inspiration by artistic principles or their contribution to the arts through new analysis tools To facilitate this the majority of the chapters are authored jointly by

experts in control theory and by artists including dancers choreographers puppeteers and painters Connections between controls and art then permeate the text so that these important relationships play a central role in the book Controls and Art surveys current projects in this area including a disco dancing robot a reactive museum exhibit and otherworldly music and illuminates open problems and topics for research in this emerging interdisciplinary field It will draw attention both from experts in robotics and control interested in developing the artistic side of their creations and from academics studying dance theater music and the visual arts with an interest in avant garde means of production

Handbook of Evolutionary Machine Learning Wolfgang Banzhaf, Penousal Machado, Mengjie Zhang, 2023-11-01 This book written by leading international researchers of evolutionary approaches to machine learning explores various ways evolution can address machine learning problems and improve current methods of machine learning Topics in this book are organized into five parts The first part introduces some fundamental concepts and overviews of evolutionary approaches to the three different classes of learning employed in machine learning The second addresses the use of evolutionary computation as a machine learning technique describing methodologic improvements for evolutionary clustering classification regression and ensemble learning The third part explores the connection between evolution and neural networks in particular the connection to deep learning generative and adversarial models as well as the exciting potential of evolution with large language models The fourth part focuses on the use of evolutionary computation for supporting machine learning methods This includes methodological developments for evolutionary data preparation model parametrization design and validation The final part covers several chapters on applications in medicine robotics science finance and other disciplines Readers find reviews of application areas and can discover large scale real world applications of evolutionary machine learning to a variety of problem domains This book will serve as an essential reference for researchers postgraduate students practitioners in industry and all those interested in evolutionary approaches to machine learning

*Swarm Intelligence and Bio-Inspired Computation* Xin-She Yang, Zhihua Cui, Renbin Xiao, Amir Hossein Gandomi, Mehmet Karamanoglu, 2013-05-16 Swarm Intelligence and bio inspired computation have become increasingly popular in the last two decades Bio inspired algorithms such as ant colony algorithms bat algorithms bee algorithms firefly algorithms cuckoo search and particle swarm optimization have been applied in almost every area of science and engineering with a dramatic increase of number of relevant publications This book reviews the latest developments in swarm intelligence and bio inspired computation from both the theory and application side providing a complete resource that analyzes and discusses the latest and future trends in research directions It can help new researchers to carry out timely research and inspire readers to develop new algorithms With its impressive breadth and depth this book will be useful for advanced undergraduate students PhD students and lecturers in computer science engineering and science as well as researchers and engineers Focuses on the introduction and analysis of key algorithms Includes case studies for real world applications Contains a balance of theory and applications so

readers who are interested in either algorithm or applications will all benefit from this timely book

**Communicability, Computer Graphics, and Innovative Design for Interactive Systems** Francisco Cipolla Ficarra, Kim Veltman, Miguel Cipolla-Ficarra, Andreas Kratky, 2012-11-05 This book constitutes the refereed proceedings of the First International Symposium on Communicability Computer Graphics and Innovative Design for Interactive Systems held in Córdoba Spain in June 2011 The 13 revised full papers presented were carefully reviewed and selected from various submissions They examine latest breakthroughs and future trends within the communicability computer graphics and innovative design of interactive systems

**Applications of Evolutionary Computing** Günther Raidl, 2003-04-07 This book constitutes the joint refereed proceedings of six workshops EvoWorkshops 2003 held together with EuroGP 2003 in Essex UK in April 2003 The 63 revised full papers presented were carefully reviewed and selected from a total of 109 submissions In accordance with the six workshops covered the papers are organized in topical sections on bioinformatics combinatorial optimization image analysis and signal processing evolutionary music and art evolutionary robotics and scheduling and timetabling



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