

NATURAL COMPUTING SERIES

Juan Romero · Penousal Machado (Eds.)

The Art of Artificial Evolution

A Handbook on
Evolutionary Art and Music



 Springer

The Art Of Artificial Evolution Natural Computing Series

**Penousal Machado,James
McDermott,Adrian Carballal**



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The Art of Artificial Evolution Juan J. Romero, Penousal Machado, 2007-11-13 Art is the Queen of all sciences communicating knowledge to all the generations of the world Leonardo da Vinci Artistic behavior is one of the most valued qualities of the human mind Although artistic manifestations vary from culture to culture dedication to artistic tasks is common to all In other words artistic behavior is a universal trait of the human species The current Western definition of art is relatively new However a dedication to artistic endeavors such as the embellishment of tools body ornamentation or gathering of unusual arguably aesthetic objects can be traced back to the origins of humanity That is art is ever present in human history and prehistory Art and science share a long and enduring relationship The best known example of the exploration of this relationship is probably the work of Leonardo da Vinci Somewhere in the 19th century art and science grew apart but the cross transfer of concepts between the two domains continued to exist Currently albeit the need for specialization there is a growing interest in the exploration of the connections between art and science Focusing on computer science it is interesting to notice that early pioneers of this discipline such as Ada Byron and Alan Turing showed an interest in using computational devices for art making purposes Oddly in spite of this early interest and the ubiquity of art it has received relatively little attention from the computer science community in general and more surprisingly from the artificial intelligence community

The Art of Artificial Evolution Juan J. Romero, 2008 This comprehensive book gives an up to date survey of the relevant bioinspired computing research fields such as evolutionary computation artificial life swarm intelligence and ant colony algorithms and examines applications in art music and design The editors and contributors are researchers and artists with deep experience of the related science tools and applications and the book includes overviews of historical developments and future perspectives

Design by Evolution Philip F. Hingston, Luigi C. Barone, Zbigniew Michalewicz, 2008-09-30 Evolution is Nature's design process The natural world is full of wonderful examples of its successes from engineering design feats such as powered flight to the design of complex optical systems such as the mammalian eye to the merely stunningly beautiful designs of orchids or birds of paradise With increasing computational power we are now able to simulate this process with greater fidelity combining complex simulations with high performance evolutionary algorithms to tackle problems that used to be impractical This book showcases the state of the art in evolutionary algorithms for design The chapters are organized by experts in the following fields evolutionary design and intelligent design in biology art computational embryogeny and engineering The book will be of interest to researchers practitioners and graduate students in natural computing engineering design biology and the creative arts

Theory and Practice of Natural Computing Adrian-Horia Dediu, Manuel Lozano, Carlos Martín-Vide, 2014-12-05 This book constitutes the refereed proceedings of the Third International Conference TPNC 2014 held in Granada Spain in December 2014 The 22 revised full papers presented in this book were carefully reviewed and selected from 47 submissions The papers are organized in topical sections on nature

inspired models of computation synthesizing nature by means of computation nature inspired materials and information processing in nature **Computational Intelligence in Music, Sound, Art and Design** Antonios Liapis, Juan Jesús Romero Cardalda, Anikó Ekárt, 2018-03-24 This book constitutes the refereed proceedings of the 7th International Conference on Evolutionary Computation in Combinatorial Optimization EvoMUSART 2018 held in Parma Italy in April 2018 co located with the Evo 2017 events EuroGP EvoCOP and EvoApplications The 21 revised full papers presented were carefully reviewed and selected from 33 submissions The papers cover a wide range of topics and application areas including generative approaches to music and visual art medical art therapy visualization in virtual reality jewellery design interactive evolutionary computation and the art theory of evolutionary computation **Artificial Intelligence in Music, Sound, Art and Design** Juan Romero, Tiago Martins, Nereida Rodríguez-Fernández, 2021-04-01 This book constitutes the refereed proceedings of the 10th European Conference on Artificial Intelligence in Music Sound Art and Design EvoMUSART 2021 held as part of Evo 2021 as Virtual Event in April 2021 co located with the Evo 2021 events EvoCOP EvoApplications and EuroGP The 24 revised full papers and 7 short papers presented in this book were carefully reviewed and selected from 66 submissions They cover a wide range of topics and application areas including generative approaches to music and visual art deep learning and architecture **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 **Computational Intelligence in Music, Sound, Art and Design** Anikó Ekárt, Antonios Liapis, María Luz Castro Pena, 2019-04-10 This book constitutes the refereed proceedings of the 8th International Conference on Evolutionary Computation in Combinatorial Optimization EvoMUSART 2019 held in Leipzig Germany in April 2019 co located with the Evo 2019 events EuroGP EvoCOP and EvoApplications The 16 revised full papers presented were carefully reviewed and selected from 24 submissions The papers cover a wide range of topics and application areas including visual art and music generation analysis and interpretation sound synthesis architecture video poetry design and other creative tasks

Computational Creativity Tony Veale, F. Amílcar Cardoso, 2019-07-25 Computational creativity is an emerging field of research within AI that focuses on the capacity of machines to both generate and evaluate novel outputs that would if produced by a human be considered creative This book is intended to be a canonical text for this new discipline through which researchers and students can absorb the philosophy of the field and learn its methods After a comprehensive

introduction to the idea of systematizing creativity the contributions address topics such as autonomous intentionality conceptual blending literature mining computational design models of novelty evaluating progress in related research computer supported human creativity and human supported computer creativity common sense knowledge and models of social creativity Products of this research will have real consequences for the worlds of entertainment culture science education design and art in addition to artificial intelligence and the book will be of value to practitioners and students in all these domains Computational Intelligence in Music, Sound, Art and Design João Correia, Vic Ciesielski, Antonios Liapis, 2017-04-03 This book constitutes the refereed proceedings of the 6th International Conference on Evolutionary Computation in Combinatorial Optimization EvoMUSART 2017 held in Amsterdam The Netherlands in April 2017 co located with the Evo 2017 events EuroGP EvoCOP and EvoApplications The 24 revised full papers presented were carefully reviewed and selected from 29 submissions The papers 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 computer aided design and the art theory of evolutionary computation

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