

Eduardo Roca Miranda
John A. Biles

Evolutionary Computer Music

 Springer



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Eduardo Miranda



Evolutionary Computer Music Evolutionary Computer Music:

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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

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

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

The Art of Artificial Evolution Juan J. Romero, Penousal

Machado,2009-09-02 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 Proceedings of the ... International Computer Music Conference ,2005 **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 *The Art of Artificial*

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Proceedings of the First IEEE Conference on Evolutionary Computation ,1994 **Proceedings of the ... IEEE Conference on Evolutionary Computation** ,1996 *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 **Evolutionary and Biologically Inspired Music, Sound, Art and Design** Colin Johnson,Vic

Ciesielski,João Correia,Penousal Machado,2016-03-16 This book constitutes the refereed proceedings of the 5th International Conference on Evolutionary and Biologically Inspired Music Sound Art and Design EvoMUSART 2016 held in Porto Portugal in March April 2016 co located with the Evo 2016 events EuroGP EvoCOP and EvoApplications The 17 revised full papers presented were carefully reviewed and selected from 25 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 and the art theory of evolutionary

computation *Evolutionary and Biologically Inspired Music, Sound, Art and Design* Juan Romero, James McDermott, João Correia, 2014-08-22 This book constitutes the refereed proceedings of the Third International Conference on Biologically Inspired Music Sound Art and Design Evo MUSART 2014 held in Granada Spain in April 2014 co located with the Evo 2013 events Euro GP Evo COP Evo BIO and Evo Applications The 11 revised full papers presented were carefully reviewed and selected from 30 submissions They cover a wide range of topics and application areas **Proceedings of the Genetic and Evolutionary Computation Conference**, 2001 Computers in Music Education Andrew R. Brown, 2007 Computers in Music Education addresses the question of how computer technologies might best assist music education For current and preservice music teachers and designed as a development tool reference resource and basic teaching text it addresses pedagogical issues and the use of computers to aid production and presentation of students musical works Written by a music educator and digital media specialist it cuts through the jargon to present a concise easy to digest overview of the field covering notation software MIDI sound creation downloading music posting personal MP3s for mass distribution While there are many more technical books few offer a comprehensive understandable overview of the field Computers in Music Education is an important text for the growing number of courses in this area **Music and Human-Computer Interaction** Simon Holland, Katie Wilkie, Paul Mulholland, Allan Seago, 2013-03-12 This agenda setting book presents state of the art research in Music and Human Computer Interaction also known as Music Interaction Music Interaction research is at an exciting and formative stage Topics discussed include interactive music systems digital and virtual musical instruments theories methodologies and technologies for Music Interaction Musical activities covered include composition performance improvisation analysis live coding and collaborative music making Innovative approaches to existing musical activities are explored as well as tools that make new kinds of musical activity possible Music and Human Computer Interaction is stimulating reading for professionals and enthusiasts alike researchers musicians interactive music system designers music software developers educators and those seeking deeper involvement in music interaction It presents the very latest research discusses fundamental ideas and identifies key issues and directions for future work Composing Music with Computers Eduardo Miranda, 2001-04-27 Focuses on the role of the computer as a generative tool for music composition Miranda introduces a number of computer music composition techniques ranging from probabilities formal grammars and fractals to genetic algorithms cellular automata and neural computation Anyone wishing to use the computer as a companion to create music will find this book a valuable resource As a comprehensive guide with full explanations of technical terms it is suitable for students professionals and enthusiasts alike The accompanying CD ROM contains examples complementary tutorials and a number of composition systems for PC and Macintosh platforms from demonstration versions of commercial programs to exciting fully working packages developed by research centres world wide including Nyquist Bol Processor Music Sketcher SSEYO Koan Open Music and the IBVA brainwaves control system among others This book will be interesting to anyone

wishing to use the computer as a companion to create music It is a comprehensive guide but the technical terms are explained so it is suitable for students professionals and enthusiasts alike Evolutionary and Biologically Inspired Music, Sound, Art and Design Penousal Machado, Juan J. Romero, Adrian Carballal, 2012-03-26 This book constitutes the refereed proceedings of the First International Conference on Biologically Inspired Music Sound Art and Design EvoMUSART 2012 held in M laga Spain in April 2012 colocated with the Evo 2012 events EuroGP EvoCOP EvoBIO and EvoApplications Due to its significant growth in the last 10 years this 10th EvoMUSART event has become an Evo conference in 2012 The 15 revised full papers and 5 poster papers presented were carefully reviewed and selected from 43 submissions They cover a wide range of topics reflecting the current state of research in the field including theory generation computer aided creativity computational creativity and automation *Proceedings of the ... Congress on Evolutionary Computation* ,1999

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