

STUDIES IN FUZZINESS
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Studies in Fuzziness and Soft Computing

Yaochu Jin
Editor

Knowledge Incorporation in Evolutionary Computation

 Springer

Knowledge Incorporation In Evolutionary Computation

Author Yaochu Jin Dec 201

Yaochu Jin, Handing Wang, Chaoli Sun



Knowledge Incorporation In Evolutionary Computation Author Yaochu Jin Dec 201:

Knowledge Incorporation in Evolutionary Computation Yaochu Jin, 2004-10-20 Incorporation of a priori knowledge such as expert knowledge meta heuristics and human preferences as well as domain knowledge acquired during evolutionary search into evolutionary algorithms has received increasing interest in the recent years It has been shown from various motivations that knowledge incorporation into evolutionary search is able to significantly improve search efficiency However results on knowledge incorporation in evolutionary computation have been scattered in a wide range of research areas and a systematic handling of this important topic in evolutionary computation still lacks This edited book is a first attempt to put together the state of art and recent advances on knowledge incorporation in evolutionary computation within a unified framework Existing methods for knowledge incorporation are divided into the following five categories according to the functionality of the incorporated knowledge in the evolutionary algorithms 1 Knowledge incorporation in representation population initialization combination and mutation 2 Knowledge incorporation in selection and reproduction 3 Knowledge incorporation in fitness evaluations 4 Knowledge incorporation through life time learning and human computer interactions 5 Incorporation of human preferences in multi objective evolutionary computation The intended readers of this book are graduate students researchers and practitioners in all fields of science and engineering who are interested in evolutionary computation The book is divided into six parts Part I contains one introductory chapter titled A selected introduction to evolutionary computation by Yao which presents a concise but insightful introduction to evolutionary computation

Evolutionary Computation David B. Fogel, 2006-09-18 This Third Edition provides the latest tools and techniques that enable computers to learn The Third Edition of this internationally acclaimed publication provides the latest theory and techniques for using simulated evolution to achieve machine intelligence As a leading advocate for evolutionary computation the author has successfully challenged the traditional notion of artificial intelligence which essentially programs human knowledge fact by fact but does not have the capacity to learn or adapt as evolutionary computation does Readers gain an understanding of the history of evolutionary computation which provides a foundation for the author's thorough presentation of the latest theories shaping current research Balancing theory with practice the author provides readers with the skills they need to apply evolutionary algorithms that can solve many of today's intransigent problems by adapting to new challenges and learning from experience Several examples are provided that demonstrate how these evolutionary algorithms learn to solve problems In particular the author provides a detailed example of how an algorithm is used to evolve strategies for playing chess and checkers As readers progress through the publication they gain an increasing appreciation and understanding of the relationship between learning and intelligence Readers familiar with the previous editions will discover much new and revised material that brings the publication thoroughly up to date with the latest research including the latest theories and empirical properties of evolutionary computation The Third Edition also features new knowledge building aids

Readers will find a host of new and revised examples New questions at the end of each chapter enable readers to test their knowledge Intriguing assignments that prepare readers to manage challenges in industry and research have been added to the end of each chapter as well This is a must have reference for professionals in computer and electrical engineering it provides them with the very latest techniques and applications in machine intelligence With its question sets and assignments the publication is also recommended as a graduate level textbook

Data-Driven Evolutionary

Optimization Yaochu Jin,Handing Wang,Chaoli Sun,2021-06-28 Intended for researchers and practitioners alike this book covers carefully selected yet broad topics in optimization machine learning and metaheuristics Written by world leading academic researchers who are extremely experienced in industrial applications this self contained book is the first of its kind that provides comprehensive background knowledge particularly practical guidelines and state of the art techniques New algorithms are carefully explained further elaborated with pseudocode or flowcharts and full working source code is made freely available This is followed by a presentation of a variety of data driven single and multi objective optimization algorithms that seamlessly integrate modern machine learning such as deep learning and transfer learning with evolutionary and swarm optimization algorithms Applications of data driven optimization ranging from aerodynamic design optimization of industrial processes to deep neural architecture search are included

Computational Evolution of Neural and Morphological Development Yaochu Jin,2023-07-14 This book provides a basic yet unified overview of theory and methodologies for evolutionary developmental systems Based on the author s extensive research into the synergies between various approaches to artificial intelligence including evolutionary computation artificial neural networks and systems biology it also examines the inherent links between biological intelligence and artificial intelligence The book begins with an introduction to computational algorithms used to understand and simulate biological evolution and development including evolutionary algorithms gene regulatory network models multi cellular models for neural and morphological development and computational models of neural plasticity Chap 2 discusses important properties of biological gene regulatory systems including network motifs network connectivity robustness and evolvability Going a step further Chap 3 presents methods for synthesizing regulatory motifs from scratch and creating more complex regulatory dynamics by combining basic regulatory motifs using evolutionary algorithms Multi cellular growth models which can be used to simulate either neural or morphological development are presented in Chapters 4 and 5 Chap 6 examines the synergies and coupling between neural and morphological evolution and development In turn Chap 7 provides preliminary yet promising examples of how evolutionary developmental systems can help in self organized pattern generation referred to as morphogenetic self organization highlighting the great potentials of evolutionary developmental systems Finally Chap 8 rounds out the book stressing the importance and promise of the evolutionary developmental approach to artificial intelligence Featuring a wealth of diagrams graphs and charts to aid in comprehension this book offers a valuable asset for graduate students

researchers and practitioners who are interested in pursuing a different approach to artificial intelligence **Evolutionary**
Computation David B. Fogel, 1998-05-15 Although evolutionary computation has only been a popular topic for the last 20
years it actually has antecedents back in the 50s This is the first text to present the most significant and historic papers on
evolutionary computation ranging from the 50s to the early 90s Features a comprehensive bibliography of the available
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