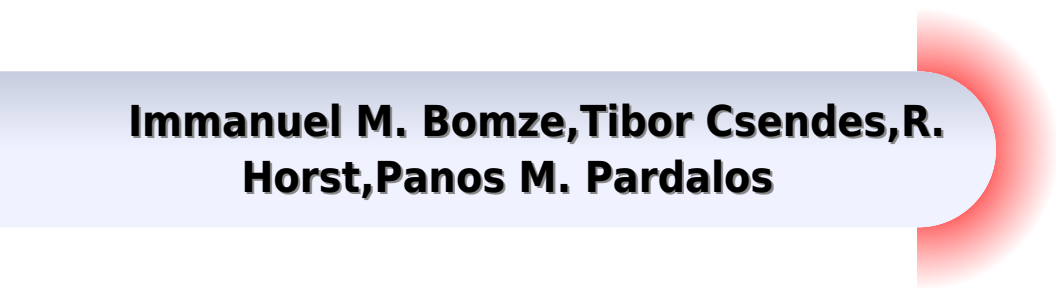Wolfgang Banzhaf
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Evolution and Biocomputation

Computational Models of Evolution

Evolution And Biocomputation Computational Models Of Evolution

Immanuel M. Bomze,Tibor Csendes,R. Horst,Panos M. Pardalos

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Evolutionary Systems Biology Anton Crombach,2021-08-05 This new edition captures the advances made in the field of evolutionary systems biology since the publication of the first edition The first edition focused on laying the foundations of evolutionary systems biology as an interdisciplinary field where a way of thinking and asking questions is combined with a wide variety of tools both experimental and theoretical computational Since publication of the first edition evolutionary systems biology is now a well known term describing this growing field The new edition provides an overview of the current status and future developments of this interdisciplinary field Chapters highlight several key achievements from the last decade and outline exciting new developments including an understanding of the interplay between complexity and predictability in evolutionary systems new viewpoints and methods to study organisms in evolving populations at the level of the genome gene regulatory network and metabolic network and better analysis and modeling techniques that will open new avenues of scientific inquiry   Evolution and Biocomputation Wolfgang Banzhaf,Frank H. Eckman,2014-01-15

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some application of evolutionary algorithms It introduces mutation crossover design issues of selection and replacement methods the issue of populations size and the question of design of the fitness function It also includes a methodological material on efficient implementation Some of the other topics in this book include the design of simple evolutionary algorithms applications to several types of optimization evolutionary robotics simple evolutionary neural computation and several types of automatic programming including genetic programming The book gives applications to biology and bioinformatics and introduces a number of tools that can be used in biological modeling including evolutionary game theory Advanced techniques such as cellular encoding grammar based encoding and graph based evolutionary algorithms are also covered This book presents a large number of homework problems projects and experiments with a goal of illustrating single aspects of evolutionary computation and comparing different methods Its readership is intended for an undergraduate or first year graduate course in evolutionary computation for computer science engineering or other computational science students Engineering computer science and applied math students will find this book a useful guide to using evolutionary algorithms as a problem solving tool

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