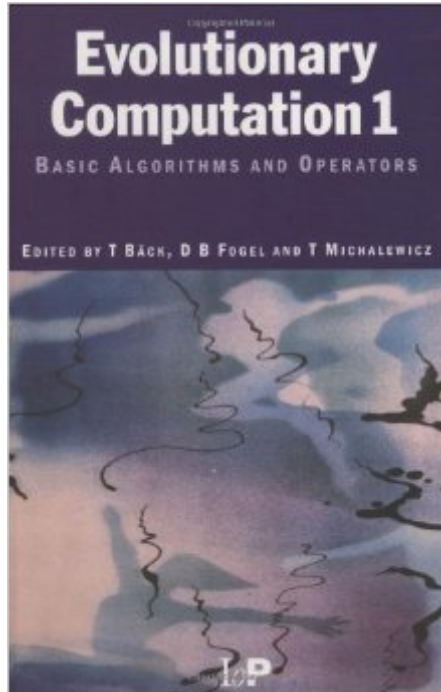


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Evolutionary Computation 1: Basic Algorithms And Operators



Synopsis

The field of evolutionary computation is expanding dramatically, fueled by the vast investment that reflects the value of applying its techniques. Culling material from the Handbook of Evolutionary Computation, Evolutionary Computation 1: Basic Algorithms and Operators contains up-to-date information on algorithms and operators used in evolutionary computing. This volume discusses the basic ideas that underlie the main paradigms of evolutionary algorithms, evolution strategies, evolutionary programming, and genetic programming. It is intended to be used by individual researchers, teachers, and students working and studying in this expanding field.

Book Information

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Customer Reviews

The first volume provides a very broad coverage of the "evolutionary" literature. Reading this first volume will probably save you a lot of time. The evolutionary literature actually becomes quite large these days. The focus of this first volume is on broad coverage, not details although some chapters are already quite advanced. If you need a fast coverage of the literature in evolutionary computation, this is the book. Pointers to all decisive contributions to the field are there. Reading from cover to cover might be difficult if the purpose is to introduce one to the field, but this is certainly the reference I would suggest to students and researchers new in this field. Each chapter is self-contained and references to the most important works for each chapter is provided at the end of the chapter.

Overall, this and the second volume combined do well to cover the major topics of evolutionary computation. Unfortunately, the IOP (the publisher) is not very good making the books (especially the first volume) available. I used both volumes for a course I teach in evolutionary computation. I completed the course, and most of my students received volume 2, but did not get volume 1 until well after the semester was over. In fairness, things may have changed since this class was taught. I would STRONGLY suggest that anyone interested in the books contact the publisher prior to order to make sure they will be received in a timely manner. The contents of these volumes used to be available free online from the IOP site. They are still on the IOP site, but you now have to pay. Pity.

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