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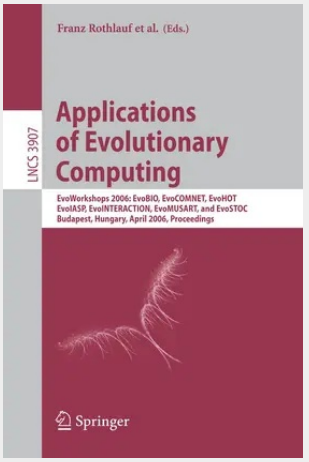
Applications of Evolutionary Computing

EvoWorkshops 2006: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoINTERACTION, EvoMUSART, and EvoSTOC, Budapest, Hungary, April 10-12, 2006, Proceedings

This book presents the refereed joint proceedings of seven workshops on evolutionary computing, EvoWorkshops 2006, held in Budapest in April 2006. 65 revised full papers and 13 revised short papers presented were carefully reviewed and selected from a total of 149 submissions. The book is organized in topical sections including evolutionary bioinformatics, evolutionary computation in communications, networks, and connected systems, and more.

Evolutionarycomputation(EC)techniquesaree?cientnature-inspiredplanning andoptimizationmethodsbasedontheprinciplesofnaturalevolutionandgen- ics. Due to their e?ciency and the simple underlying principles, these methods can be used for a large number of problems in the context of problem solving, optimization,andmachinelearning.Alargeandcontinuouslyincreasingnumber of researchers and practitioners make use of EC techniques in many application domains.This book presents a careful selectionof relevantEC applications c- bined with thorough examinations of techniques for a successful application of EC. The presented papers illustrate the current state of the art in the appli- tion of EC and should help and inspire researchers and practitioners to develop e?cient EC methods for design and problem solving. AllthepapersinthisbookwerepresentedduringEvoWorkshops2006,which consisted of a varying collection of workshops on application-oriented aspects of EC.Since1998,theformatoftheEvoWorkshopshasprovedtobeverysuccessful and to represent signi?cant advances in the application areasof EC. As a result, over the last few years, EvoWorkshops has become one of the major events to focus solely on applicational aspects of EC, constituting an important link between EC research and the application of EC in a variety of domains. EvoWorkshops is co-located with EuroGP, the main European event de- cated to genetic programming, and EvoCOP, which has become the main - ropean conference on evolutionary computation in combinatorial optimization. The proceedings for both of these events, EuroGP 2006 and EvoCOP 2006, are also available in the LNCS series (number 3905 and 3906).



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