



Variants Of Evolutionary Algorithms For Real-World Applications

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Summary : Free variants of evolutionary algorithms for real-world applications pdf download - evolutionary algorithms eas are population-based stochastic search algorithms that mimic natural evolution due to their ability to find excellent solutions for conventionally hard and dynamic problems within acceptable time eas have attracted interest from many researchers and practitioners in recent years this book variants of evolutionary algorithms for real-world applications aims to promote the practitioner s view on eas by providing a comprehensive discussion of how eas can be adapted to the requirements of various applications in the real-world domains it comprises 14 chapters including an introductory chapter re-visiting the fundamental question of what an ea is and other chapters addressing a range of real-world problems such as production process planning inventory system and supply chain network optimisation task-based jobs assignment planning for cnc-based work piece construction mechanical ship design tasks that involve runtime-intense simulations data mining for the prediction of soil properties automated tissue classification for mri images and database query optimisation among others these chapters demonstrate how different types of problems can be successfully solved using variants of eas and how the solution approaches are constructed in a way that can be understood and reproduced with little prior knowledge on optimisation

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