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This contributed volume, written by leading international researchers, reviews the latest developments of genetic programming (GP) and its key applications in solving current real world problems, such as energy conversion and management, financial analysis, engineering modeling and design, and software engineering, to name a few. Inspired by natural evolution, the use of GP has expanded significantly in the last decade in almost every area of science and engineering. Exploring applications in a variety of fields, the information in this volume can help optimize computer programs throughout the sciences. Taking a hands-on approach, this book provides an invaluable reference to practitioners, providing the necessary details required for a successful application of GP and its branches to challenging problems ranging from drought prediction to trading volatility. It also demonstrates the evolution of GP through major developments in GP studies and applications. It is suitable for advanced students who wish to use relevant book chapters as a basis to pursue further research in these areas, as well as experienced practitioners looking to apply GP to new areas. The book also offers valuable supplementary material for design courses and computation in engineering.

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Editorial Review

Review

“The editors of this handbook have done a good job in producing a consistent book despite the diversity of topics and contributions. The chapters of the book are self-contained and may be read independently of other chapters. ... I strongly recommend this handbook for engineers, practitioners, computer science researchers, and libraries. It will be suitable for advanced students for selecting research problems. It will surely help experienced practitioners seeking to apply GP to new areas.” (S. V. Nagaraj, Computing Reviews, February, 2017)

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