Real Life Applications of Soft Computing PDF
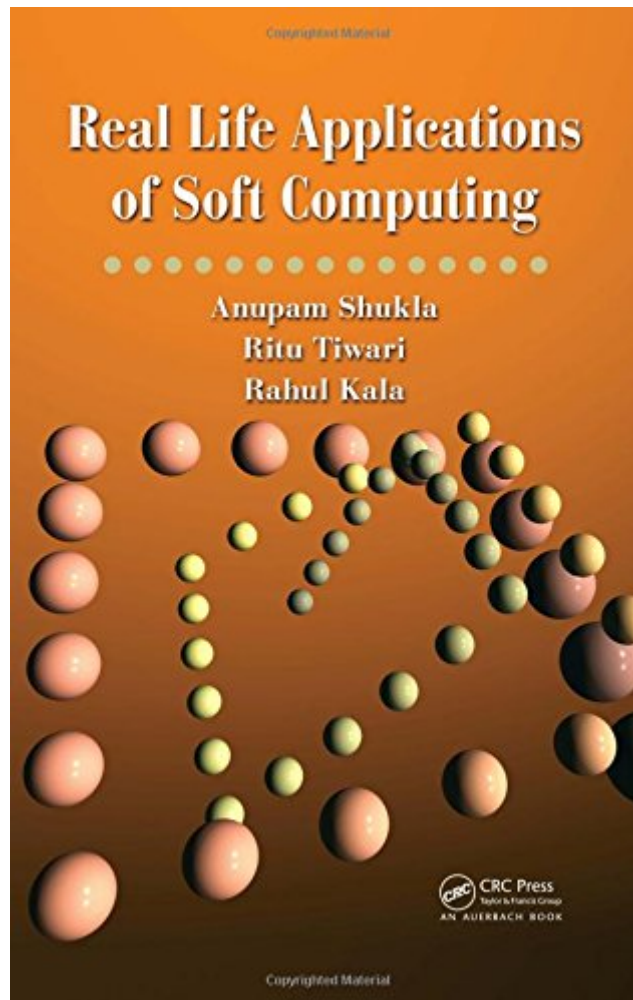

Real Life Applications of Soft Computing by Anupam Shukla, Ritu Tiwari, Rahul Kala ISBN 1439822875

Rapid advancements in the application of soft computing tools and techniques have proven valuable in the development of highly scalable systems and resulted in brilliant applications, including those in biometric identification, interactive voice response systems, and data mining. Although many resources on the subject adequately cover the theoretic concepts, few provide clear insight into practical application.

Filling this need, **Real Life Applications of Soft Computing** explains such applications, including the underlying technology and its implementation. While these systems initially seem complex, the authors clearly demonstrate how they can be modeled, designed, and implemented. Written in a manner that makes it accessible to novices, the book begins by covering the theoretical

foundations of soft computing. It supplies a concise explanation of various models, principles, algorithms, tools, and techniques, including artificial neural networks, fuzzy systems, evolutionary algorithms, and hybrid algorithms.

Supplying in-depth exposure to real life systems, the text provides:

- Multi-dimensional coverage supported by references, figures, and tables
- Warnings about common pitfalls in the implementation process, as well as detailed examinations of possible solutions
- A timely account of developments in various areas of application
- Solved examples and exercises in each chapter

Detailing a wide range of contemporary applications, the text includes coverage of those in biometric systems, including physiological and behavioral biometrics. It also examines applications in legal threat assessment, robotic path planning, and navigation control. The authors consider fusion methods in biometrics and bioinformatics and also provide effective disease identification techniques.

Complete with algorithms for robotic path planning, the book addresses character recognition and presents the picture compression technique by using a customized hybrid algorithm. The authors conclude with a discussion of parallel architecture for artificial neural networks and supply guidelines for creating and implementing effective soft computing designs.

Real Life Applications of Soft Computing Review

This Real Life Applications of Soft Computing book is not really ordinary book, you have it then the world is in your hands. The benefit you get by reading this book is actually information inside this reserve incredible fresh, you will get information which is getting deeper an individual read a lot of information you will get. This kind of Real Life Applications of Soft Computing without we recognize teach the one who looking at it become critical in imagining and analyzing. Don't be worry Real Life Applications of Soft Computing can bring any time you are and not make your tote space or bookshelves' grow to be full because you can have it inside your lovely laptop even cell phone. This Real Life Applications of Soft Computing having great arrangement in word and layout, so you will not really feel uninterested in reading.