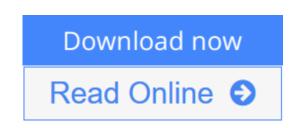


### Soft Computing and Intelligent Systems: Theory and Applications (Academic Press Series in Engineering)

By Madan M. Gupta



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The field of soft computing is emerging from the cutting edge research over the last ten years devoted to fuzzy engineering and genetic algorithms. The subject is being called soft computing and computational intelligence. With acceptance of the research fundamentals in these important areas, the field is expanding into direct applications through engineering and systems science.

This book cover the fundamentals of this emerging filed, as well as direct applications and case studies. There is a need for practicing engineers, computer scientists, and system scientists to directly apply "fuzzy" engineering into a wide array of devices and systems.

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#### **Editorial Review**

#### From the Back Cover

"The past few years have witnessed a growing recognition of the centrality of soft computing as a principal component of methodologies that underlie the conception, design, construction and utilization of information/intelligent systems. Soft Computing and Intelligent System makes an important contribution to a better understanding of the basics of soft computing and is an authoritative exposition of the principal tools of soft computing and their applications" Lofti Zadeh, University of California, Berkeley.

Soft computing is a new, emerging discipline rooted in a group of technologies that aim to exploit the tolerance for imprecision and uncertainty in achieving solutions to complex problems. Over recent years information and intelligent systems, which form the core of modern technology, have become extremely variable and have greatly increased in complexity. Engineers, mathematicians and computer scientists can no longer rely on one single method or tool to deal with them. This book deals with the major methodologies that make up the emerging field of soft computing; fuzzy logic, neuro-computing, evolutionary computing, probabilistic computing and machine learning theory.

In Soft Computing and Intelligent Systems, the editors invited and edited contributions from 44 worldrenowned researchers to complete the 25 chapters of this book. The reader receives a complete range of coverage of soft computing with the book divided into the following sections: foundations, theory, implications and applications, and future perspectives.

#### About the Author

Madan M. Gupta is a Professor of Engineering at the University of Saskatchewan and Director of the Intelligent Systems Research Laboratory. Professor Gupta is a Fellow of the IEEE and a Fellow of the SPIE. He is the author of numerous books in the areas of fuzzy logic, fuzzy control, neural systems and control systems and the author or co-author of more than 650 research publications. In addition to numerous honors and awards, in 1998 Dr. Gupta received the prestigious Kaufman Prize Gold Medal for research in the field of fuzzy logic.

Naresh K. Sinha is Professor Emeritus and Adjunct Professor in the Department of Electrical and Computer Engineering at McMaster University where he has previously served as department chairman and as the Director of Instructional Computing in the Faculty of Engineering. Professor Sinha is a Life Fellow of the IEEE and is a Registered Professional Engineer in the Province of Ontario, Canada. His current research interests are in the areas of adaptive control, system modeling and identification, robotics, intelligent control systems and industrial applications of modern control theory.

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