



# SOFT COMPUTING

Neural Networks, Fuzzy Logic,  
Genetic Algorithm and Probabilistic Reasoning

Ikvinderpal Singh

## Soft Computing

**Author :** Ikvinderpal Singh

**ISBN 13 :** 978-93-80016-97-9

**ISBN 10 :** 93-80016-97-2

**E-ISBN 13 :** 978-93-80016-97-9

**Edition :** 1

**Pages :** 696

**Type of book :** Paperback

**Weight (g) :** 928.00

**Year :** 2010

**Language :** English

**Publisher :** Khanna Publishing House

**Regular Price :** Rs 450.00

**Sale Price :** Rs 360.00

**Categories :** [All books](#), [Computer Science Engineering](#)

**Condition Type**  
:

New

**Country Origin**  
:

India

## Product Description

This book is meant for a wide range of readers, especially college and university students wishing to learn basic as well as advanced processes and techniques in Soft Computing. It can also meant for Programmers who may be involved in programming based on the soft computing applications. Modern aspects of soft computing have been introduced from the first principles and discussed in an easy manner, So that a beginner can grasp the concept of neural networks fuzzy, genetic algorithm and probabilistic reasoning, each chapter contains solved example problems and exercise problems.



**Khanna Publishing House**

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: [contact@khannabooks.com](mailto:contact@khannabooks.com) | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320

---

## Table of Contents

---

Chapter 1: Fundamentals of Neural Networks Chapter 2: Perceptrons Chapter 3: Backpropagation Chapter 4: Adaline and Madaline Chapter 5: Supervised and Unsupervised Learning Chapter 6: Counter Propagation Network Chapter 7: Adaptive Resonance Theory Chapter 8: Neocognitron Chapter 9: Bidirectional Associative Memory Chapter 10: Case Studies Chapter 11: Introduction to Fuzzy System Chapter 12: Fuzzy Logic Chapter 13: Classical Sets and Fuzzy Sets Chapter 14: Fuzzy Relations, Fuzzy Graphs and Fuzzy Arithmetic Chapter 15: Fuzzy If-then Rules Chapter 16: Applications of Fuzzy Logic Chapter 17: Neuro-fuzzy Systems Chapter 18: Genetic Algorithm Chapter 19: Probability Theory Chapter 20: Random Variable and Mathematical Expectation Chapter 21: Theoretical Distributions Chapter 22: Fuzzy Logic and Probability Theory

---

## Author

---

**Ikvinderpal Singh** Ikvinderpal Singh, is Lecturer of P.G. Deptt. Of Computer Science & Applications, Khalsa College, Amritsar which is a premier institute in North India. He obtained his MCA with distinction from Guru Nanak Dev University, Amritsar. He has always been excellence right from his student carrer. He has written five books. He brought name for himself when he topped the college in B.Sc. His other areas of interest include Fuzzy systems, digital electronics and java programming.

---

