Artificial Intelligence, 1/e

Ela Kumar

2010	480 pp	Paperback	ISBN: 9788190656665	Price: 465.00

About the Book

Artificial Intelligence (AI) is an emerging discipline of computer science. It deals with the concepts and methodologies required by computer to perform an intelligent activity. The spectrum of computer science is very wide and it enables the computer to handle almost every activity, which human beings can. It deals with defining the basic problem from viewpoint of solving it through computer, finding out the total possibilities of solution, representing the problem from computational orientation, selecting data structures, finding the solution through searching the goal in search space dealing with the real world uncertain situations, etc. It also develops the techniques for learning and understanding, which make the computer able to exhibit an intelligent behavior. The list is exhaustive and is applied nowadays in almost every field of technology.

This book presents almost all the components of AI like problem solving, search techniques, knowledge concepts, expert system and many more in a very simple language. One of the unique features of this book is inclusion of number of solved examples; in between the chapters and also at the end of many chapters. Real life examples have been discussed to make the reader conversant with the intricate phenomenon of computer science in general, and artificial intelligence in particular. The book is primarily developed for undergraduate and postgraduate engineering students.

Salient Features

Salient Features:

‣ The book covers the entire gamut of AI, starting with the development of the field and the nature of AI, through particular techniques, applications of AI, culminating with expert systems.
‣ Has dedicated chapters on Knowledge Engineering, Logic, Natural Language Processing, and Uncertainty among others.
‣ A lot of worked examples are embedded in the chapters and end-of-the-chapter exercises.
‣ Many real-life examples are used to clarify the intricate concepts.

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About the Author

Ela Kumar :- completed her B.Tech (1988) in Electronics and Communication and M.Tech (1990) Computer Science and Technology from IIT Roorkee. She obtained her PhD in Artificial Intelligence from Delhi University in 2003. She has experience of 26 years in teaching and research

related to Computer Science. Presently, she is Dean, Academic affairs, Head of Department of Computer Science and Engineering, Indira Gandhi Delhi Technical University for Women. She has authored five books and more than 80 research papers. She has supervised 6 Ph.D. theses.