Artificial Intelligence

MACHINE LEARNING An Artificial Intelligence Approach

Edited by Ryszard S. Michalski, Jaime G. Carbonell, and Tom M. Mitchell

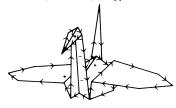
A collection of chapters by leading scientists on contemporary research in machine learning, this text covers knowledge acquisition for expert systems; procedures and strategy learning; learning by analogy, advice, examples, and observation; modeling human learning; discovery systems; and conceptual data

\$39.50 (cloth), 600 pp.

THE HANDBOOK OF **ARTIFICIAL** INTELLIGENCE

Edited by Avron Barr, Paul R. Cohen, and Edward A. Feigenbaum

The Handbook of Artificial Intelligence, written in plain English for people without a background in the field, contains over 200 short articles covering all of the important ideas and techniques developed in artificial intelligence over the last twenty-five years. *The Handbook* is a reference work, a textbook, a guide to programming techniques and to the extensive literature of the field. and a book for intellectual browsing \$120.00 (Three Volume Set) \$39.50 (Volume I), 409 pp. \$42.50 (Volume II), 450 pp. \$59.50 (Volume III), 650 pp.



PRINCIPLES OF **ARTIFICIAL INTELLIGENCE**

Nils I. Nilsson

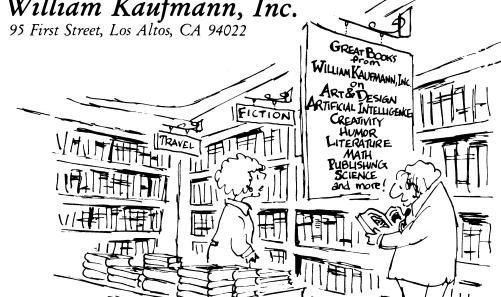
Principles of Artificial Intelligence lucidly explains the core ideas of artificial intelligence—the fundamental principles of this rapidly-expanding computer science. Its goal is to fill a gap between theory and practice for readers versed in the fundamentals \$30.00 (cloth), 492 pp.

READINGS IN ARTIFICIAL INTELLIGENCE

Edited by Bonnie Lynn Webber and Nils J. Nilsson

Thirty-one classic papers on search, deduction, planning, expert systems, and other topics have been gathered in this convenient volume for class and reference use. Hard-to-find papers by AI experts are thus made readily accessible for present and future specialists. \$25.00 (paper), 557 pp.

GREAT BOOKS from William Kaufmann, Inc.



Creativity & Design

ART AND COMPUTERS The First Artificial Intelligence Coloring Book Harold Cohen, Becky Cohen, and Penny Nii

Computer drawings generated from a program written by artist Harold Cohen. An accompanying conversation between the artist and two 13-year-olds introduces artificial intelligence, drawing, coloring, and art in general.

Intellectually and visually exciting, Art and Computers is for people of all ages who seek demystification of computers and art. \$12.95 (flexible hardback), 128 pp. H

THE UNIVERSAL **TRAVELER** A Soft-Systems Guide to Creativity, Problem-Solving

and the Process of Reaching

Fourth Edition Don Koberg and Jim Bagnall

Since it first appeared, *The Universal Traveler* has led a growing revolution in problem-solving techniques. Now, with over 200,000 copies in print, this bestselling book is completely revised with new graphics and new, effective, and stimulating formulas for solving problems and taking more conscious control of one's life.

\$7.95 (paper), 130 pp.

WAKE UP YOUR **CREATIVE GENIUS**

Kurt Hanks and Jay Parry

This invigorating short-course in creativity, filled with concrete examples and more than 100 illustrations, will help you maximize the number of fresh ideas that hit their \$9.95 (paper), 180 pp.

DRAW! A Visual Approach to Learning, Thinking and Communicating Kurt Hanks and Larry Belliston

'A veritable symposium on the visual media . . . Hanks and Belliston are really showing us how to turn on an unused channel of thinking."

—Human Behavior Magazine \$11.50 (paper), 253 pp.

RAPID VIZ A New Method for the Rapid Visualization of Ideas Kurt Hanks and Larry Belliston

The exercises in this book harness natural abilities to convert fleeting ideas into visual form. Fun for everyone! \$8.95 (paper), 157 pp. L

DESIGN YOURSELF!

Kurt Hanks and Larry Belliston Good design is finding the best solution to a problem—any problem. Here the authors show you how to apply the principles of good design to life.

\$8.95 (paper), 152 pp.

INTERIOR DESIGN **GRAPHICS** Basics-Examples-Standards

Frederic H. Jones

An experienced consultant and college educator, Frederic H. Jones clarifies the process of interior design drafting with basic instruction on how to draw interior design plans. A must not only for students but for practicing professionals as well.

\$14.95 (paper), 128 pp.

DESIGNING CREATIVE **RESUMES AND PORTFOLIOS**

Gregg Berryman



Learn the how-to's of planning portfolios and resumes that show your creative strengths to their best advantage. Particularly suited to designers and artists. \$7.95 (paper), 100 pp.

Humor

WHAT'S SO FUNNY ABOUT COMPUTERS?

Foreword by Christopher Morgan, Editor of Byte

For all those hopelessly or happily entangled in computer circuitry, Sidney Harris will help them unwind with his newest cartoons. Both computer jocks and victims of "terminal shock" will see themselves reflected in the more than 100 drawings in Harris's latest book. But what's the best thing about these engaging computer cartoons? There's always some byte to \$6.95 (paper), 128 pp.

WHAT'S SO FUNNY ABOUT SCIENCE? Cartoons from American Scientist

S. Harris Foreword by Herbert Bailey



A collection of over 100 cartoons on a remarkable range of scientific and technical subjects brings out what is human and humorous in sophisticated scientific inquiry. \$5.95 (paper), 128 pp. \$8.95 (cloth), 128 pp.

CHICKEN SOUP & OTHER MEDICAL **MATTERS**

S. Harris

Foreword by Willard R. Espy

Like chicken soup itself, S. Harris's medical cartoon book is a sure cure for whatever ails you. "Harris's brand of humor appeals to people of all professions and all walks of life."—American Human \$5.95 (paper), 108 pp. S

ALL ENDS UP S. Harris

Foreword by Linus Pauling

The third collection of S. Harris cartoons to be published by William Kaufmann, Inc., All Ends Up features a foreword by Dr. Linus Pauling and a profusion of new laughs by S. Harris. \$5.95 (paper), 128 pp.

Math

PROFESSOR E. McSQUARED'S ORIGINAL, **FANTASTIC & HIGHLY EDIFYING CALCULUS PRIMER**

Howard Swann and John Johnson

Through brilliant use of cartoons and ingenious analogy, the Professor and his friends introduce calculus with unbelievable energy, humor, and clarity. "Perhaps the most original primer on calculus yet devised." —New York Public Library \$9.50 (paper), 216 pp. U

f() 90

PRECALCULUS MATHEMATICS IN A **NUTSHELL**

George Simmons

This book makes the difference for students who need to master geometry, algebra, or trigonometry. \$5.95 (paper), 127 pp.

HOW TO THINK WITH **NUMBERS**

Robert L. Hershey

Robert Hershey's book will show you how to think more effectively about numbers-whether it be installment purchases, investments, mortgage payments, or life in-\$7.95 (paper), 176 pp

Sciences

HYPNOSIS IN THE RELIEF OF PAIN Second Edition

Ernest R. Hilgard and Josephine R. Hilgard

Distinguished Stanford University research scientists, the Hilgards present a considered assessment of the role of hypnosis in allowing hypnotizable persons to reduce pain in childbirth, in dental and medical surgery, and in the treatment of disease and injury. Now available in a paperback edition with a new foreword by Dr. P. D. Wall and an entirely new section updating research.

Х

\$10.95 (paper),.302 pp.

EARTHQUAKE INTERPRETATIONS A Manual for Reading Seismograms Ruth B. Simon

This thorough primer for earthquake interpretation includes reproductions and interpretations of dozens of earthquake records. Clear instructions make this book an important tool for exploring the internal structure of the earth. \$9.95 (paper), 160 pp.

THE QUESTION OF **ANIMAL AWARENESS**

Second Edition Donald Griffin

Is it language that sets man apart from other animals? How do we know? If scientists accept biological evolution in animals, why do they shy away from the concept of continuity in animal experiences? Is that logical? Do animals have intentions or mental images? How can we find out?

\$8.95 (paper), 221 pp.

Self-Help

I DON'T MIND READING THEM. IT'S CARRYING THEM BACK AND FORTH THAT GET! TO ME



HOW TO SUCCEED IN COLLEGE

Marcia K. Johnson, Sally P. Springer, and Sarah Hall Sternglanz

\$6.95 (paper), 215 pp.

Illustrations by Steven Bjorkman Help your college student get off to a good start, get back on the right track, or simply make a good thing even better with this first-rate guide.

GET YOUR 'A' OUT OF **COLLEGE** Mastering the Hidden Rules of the Game Clark McKowen

This book will get you through school with top grades. You won't get frustrated, and you won't waste any time. "Get Your 'A' Out of College should be at the top of every reading list." —Diablo Enquirer \$6.95 (paper), 176 pp.

RESEARCH A Practical Guide to Finding Information Peter Fenner and Martha Armstrong

This guide does for research what the dictionary does for words-and in so doing makes a library a more pleasant, effective, and time-saving tool, and the user a better researcher. \$7.95 (paper), 194 pp.

INTO PRINT A Practical Guide to Writing, Illustrating and Publishing Mary Hill and Wendell Cochran

Two experienced science editors have written a practical, easy-to-use handbook for those who work with publishers, printers, and artists on books, papers, slide talks, and other presentations.

\$7.95 (paper), 188 pp. \$12.00 (cloth), 188 pp. DD EE

COPYEDITING A Practical Guide Karen Judd

This excellent reference is useful for all those who work with turning words into type. "A superb amalgamation of all the technical savvy that goes into copyediting. -American Libraries \$16.95 (cloth), 304 pp. FF

WILLIAM KAUFMANN, INC.

Department SN 44, 95 First Street, Los Altos, CA 94022

Please send me the books whose letters are circled below. If not satisfied, I may return the order within 30 days for a complete

- ☐ Enclosed is full payment plus \$1.50 shipping charge. (California residents please add sales tax.)
- ☐ Please send me your free catalog.

ABCDEFGHIJ KLMNOPQRST UVWXYZAABB CC DD EE FF

Name	
Address	
City	www.
State	Zip

Attracting Birds and Other Wildlife to Your Yard

By William J. Weber, D.V.M.



A guidebook for anyone who enjoys our planet with wildlife

Contents

Why Attract Birds and Wildlife to Your Yard?

Attracting Birds

Choosing Plants and Trees for Wildlife

Artificial Feeding

Feeders for Wild Creatures

Water and Waterers

Birdhouses

Bluebirds

Hummingbirds

Attracting Mammals to Your Yard

Squirrels and More Squirrels

Frogs, Toads, and Other Creatures The Plan

What Others Have Done Get Involved

147 pages, illustrated, 61/4 x 91/4, hardcover, \$9.95

Science N	lews	Book	Order	Sei	rvi	ce
1719 N St	NW	Wast	nington	D	C	20036

Please send	copy(s) of
Attracting Birds and	
Wildlife to Your Yard	

nclude a check, payable to Science News Book Order Service, for \$9.95 plus \$1.00 handling (total \$10.95) for each copy.

2	,	ū	ū	ī	

address

state

RB134

Now NRI takes you inside the new TRS-80 Model 4 microcomputer with disk drive to train you at home as the new breed of computer specialist!

NRI teams up with Radio Shack advanced technology to teach you how to use, program and service state-of-the-art microcomputers...

It's no longer enough to be just a programmer or a technician, with microcomputers moving into the fabric of our lives (over 1 million of the TRS-80™ alone have been sold),

interdisciplinary skills verifying its operation at each step.

are demanded.

And NRI can prepare you with the first course of its kind, covering the complete world of the microcomputer.

Learn At Home In Your Spare Time

With NRI training, the programmer gains practical knowledge of hardware, enabling him to design simpler, more effective programs. And, with advanced programming skills, the technician can test and debug systems quickly and easily.

Only NRI gives you both kinds of training with the convenience of learning at home. No classroom pressure, no night school, no gasoline wasted. You learn at your convenience, at your own pace. Yet you're always backed by the NRI staff and your instructor, answering questions and giving you guidance.

TRS-80, Model 4 plus Disk Drive to Learn on and Keep

NRI training is hands-on training with (TRS-80 is a trademark of the Radio Shack division of Tandy Corp.)



We'll give you tomorrow.

The catalog is free. The training is priceless.

Name	(Please Print)	Age
Street		
City/State/Zip		

practical experiments and demonstrations. You not only learn to program your computer, you learn all about it...how circuits interact... interface with other systems...gain a real insight into its nature. Under NRI's carefully planned training, you even install a disk drive,

You also work with a professional

4-function, 3½ digit digital multimeter and the NRI Discovery Lab,® performing over 60 separate experiments. Both microcomputer and equipment come as part of

your training for you to use and keep.

Same Training Available With Color Computer

NRI offers you the opportunity to train with the TRS-80 Color Computer as an alternative to the Model 4. The same technique for getting inside is enhanced by using the new NRI-developed Computer Access Card. Only NRI offers you a choice to fit your specific training needs.

> The Catalog is Free. The Training is Priceless.

Get all the details on this exciting course in NRI's free, 104 page catalog. It shows all equipment, lesson outlines, and facts on other electronics courses such as Electronic Design, Industrial Electronics, Video/Audio Servicing... 12 different career opportunities in all.

Keep up with the latest technology as you learn on the latest model of the world's most popular computer. If coupon has been used,

write to NRI Schools, 3939 Wisconsin

Ave., washington, D.C. 20010.
Please check for one free catalog only. Computer Electronics including Microcomputers Color TV, Audio, and Video System Servicing Electronics Design Technology Digital Electronics
☐ Communications Electronics - FCC Licenses - Mobile - CB - Aircraft - Marine ☐ Industrial Electronics ☐ Basic Electronics ☐ Small Engine Servicing
☐ Appliance Servicing ☐ Automotive Servicing ☐ Auto Air Conditioning
☐ Air Conditioning, Heating, Refrigeration, & Solar Technology ☐ Building Construction
All career courses approved under

186-103