

Springer

1st
edition2006, XIX, 461 p. With CD-
ROM.**Printed book**

Hardcover

Book with CD-ROM

Hardcover

ISBN 978-3-540-30618-4

£ 199,99 | CHF 259,50 | 219,99 € |
241,99 € (A) | 235,39 € (D)

Available

Discount group

Standard (0)

Product category

Professional book

Series

Signals and Communication Technology

Other renditions

Softcover

ISBN 978-3-642-44564-4

Engineering : Control , Robotics, Mechatronics

Kraiss, Karl-Friedrich (Ed.)

Advanced Man-Machine Interaction

Fundamentals and Implementation

- The authors describe the implementation of modern features of man-machine interfaces
- They offer design guidelines, case studies and they discuss the algorithms for the implementation
- Two easy-to-handle software development environments offer access to extensive public domain software for computer vision, classification, and virtual reality

Contemporary man-machine interfaces are increasingly characterized by multimodality, nonintrusiveness, context-sensitivity, adaptivity, and teleoperability. The implementation of such properties relies on novel techniques in fields such as, e.g., computer vision, speech technology, trainable classifiers, robotics, and virtual reality. This book puts special emphasis on technological aspects of advanced interface implementation. Furthermore it focuses on interface design and usability. For readers with a background in engineering and computer science, most chapters offer design guidelines and case studies, as well as a description of the functioning and limitations of the algorithms required for implementation. In addition, complementary code examples in C++ are given where appropriate. As a special feature the book is accompanied by two easy-to-handle software development environments, which offer access to extensive public domain software for computer vision, classification, and virtual reality. These environments also provide real-time access to peripheral components like, e.g., webcams or microphones, enabling hands-on experimentation and testing.

Order online at springer.com/booksellers**Springer Nature Customer Service Center GmbH**

Customer Service

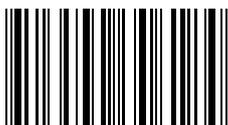
Tiergartenstrasse 15-17

69121 Heidelberg

Germany

T: +49 (0)6221 345-4301

row-booksellers@springernature.com



ISBN 978-3-540-30618-4 / BIC: TJFM / SPRINGER NATURE: SCT19000

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**