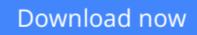


An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition)

Marco Alexander Treiber



Click here if your download doesn"t start automatically

An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition)

Marco Alexander Treiber

An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) Marco Alexander Treiber Rapid development of computer hardware has enabled usage of automatic object recognition in an increasing number of applications, ranging from industrial image processing to medical applications, as well as tasks triggered by the widespread use of the internet. Each area of application has its specific requirements, and consequently these cannot all be tackled appropriately by a single, general-purpose algorithm.

This easy-to-read text/reference provides a comprehensive introduction to the field of object recognition (OR). The book presents an overview of the diverse applications for OR and highlights important algorithm classes, presenting representative example algorithms for each class. The presentation of each algorithm describes the basic algorithm flow in detail, complete with graphical illustrations. Pseudocode implementations are also included for many of the methods, and definitions are supplied for terms which may be unfamiliar to the novice reader. Supporting a clear and intuitive tutorial style, the usage of mathematics is kept to a minimum.

Topics and features: presents example algorithms covering global approaches, transformation-search-based methods, geometrical model driven methods, 3D object recognition schemes, flexible contour fitting algorithms, and descriptor-based methods; explores each method in its entirety, rather than focusing on individual steps in isolation, with a detailed description of the flow of each algorithm, including graphical illustrations; explains the important concepts at length in a simple-to-understand style, with a minimum usage of mathematics; discusses a broad spectrum of applications, including some examples from commercial products; contains appendices discussing topics related to OR and widely used in the algorithms, (but not at the core of the methods described in the chapters).

Practitioners of industrial image processing will find this simple introduction and overview to OR a valuable reference, as will graduate students in computer vision courses.

Marco Treiber is a software developer at Siemens Electronics Assembly Systems, Munich, Germany, where he is Technical Lead in Image Processing for the Vision System of SiPlace placement machines, used in SMT assembly.

<u>Download</u> An Introduction to Object Recognition: Selected A1 ...pdf

<u>Read Online An Introduction to Object Recognition: Selected ...pdf</u>

Download and Read Free Online An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) Marco Alexander Treiber

From reader reviews:

Terry Holmes:

Reading a publication tends to be new life style in this particular era globalization. With looking at you can get a lot of information that can give you benefit in your life. Along with book everyone in this world may share their idea. Textbooks can also inspire a lot of people. Plenty of author can inspire their very own reader with their story as well as their experience. Not only the storyline that share in the books. But also they write about the data about something that you need case in point. How to get the good score toefl, or how to teach your young ones, there are many kinds of book which exist now. The authors nowadays always try to improve their proficiency in writing, they also doing some research before they write for their book. One of them is this An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition).

William Johnson:

Spent a free time and energy to be fun activity to complete! A lot of people spent their down time with their family, or all their friends. Usually they undertaking activity like watching television, likely to beach, or picnic from the park. They actually doing same thing every week. Do you feel it? Do you want to something different to fill your personal free time/ holiday? Could be reading a book might be option to fill your no cost time/ holiday. The first thing you will ask may be what kinds of book that you should read. If you want to try look for book, may be the guide untitled An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) can be fine book to read. May be it might be best activity to you.

Gary Askew:

Do you have something that you like such as book? The guide lovers usually prefer to pick book like comic, quick story and the biggest some may be novel. Now, why not attempting An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) that give your satisfaction preference will be satisfied by means of reading this book. Reading practice all over the world can be said as the method for people to know world far better then how they react when it comes to the world. It can't be mentioned constantly that reading addiction only for the geeky man but for all of you who wants to become success person. So , for all you who want to start reading through as your good habit, you may pick An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) become your starter.

Floyd Brown:

This An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) is completely new way for you who has interest to

look for some information as it relief your hunger details. Getting deeper you on it getting knowledge more you know or perhaps you who still having little digest in reading this An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) can be the light food to suit your needs because the information inside this book is easy to get by simply anyone. These books produce itself in the form that is certainly reachable by anyone, yeah I mean in the e-book web form. People who think that in reserve form make them feel tired even dizzy this publication is the answer. So you cannot find any in reading a publication especially this one. You can find what you are looking for. It should be here for anyone. So , don't miss the item! Just read this e-book style for your better life and knowledge.

Download and Read Online An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) Marco Alexander Treiber #OHG8LVBXZ7W

Read An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) by Marco Alexander Treiber for online ebook

An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) by Marco Alexander Treiber Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) by Marco Alexander Treiber books to read online.

Online An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) by Marco Alexander Treiber ebook PDF download

An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) by Marco Alexander Treiber Doc

An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) by Marco Alexander Treiber Mobipocket

An Introduction to Object Recognition: Selected Algorithms for a Wide Variety of Applications (Advances in Computer Vision and Pattern Recognition) by Marco Alexander Treiber EPub