



Template Matching Techniques in Computer Vision: Theory and Practice

By Roberto Brunelli

[Download now](#)

[Read Online](#) 

Template Matching Techniques in Computer Vision: Theory and Practice

By Roberto Brunelli

The detection and recognition of objects in images is a key research topic in the computer vision community. Within this area, face recognition and interpretation has attracted increasing attention owing to the possibility of unveiling human perception mechanisms, and for the development of practical biometric systems. This book and the accompanying website, focus on template matching, a subset of object recognition techniques of wide applicability, which has proved to be particularly effective for face recognition applications. Using examples from face processing tasks throughout the book to illustrate more general object recognition approaches, Roberto Brunelli:

- examines the basics of digital image formation, highlighting points critical to the task of template matching;
- presents basic and advanced template matching techniques, targeting grey-level images, shapes and point sets;
- discusses recent pattern classification paradigms from a template matching perspective;
- illustrates the development of a real face recognition system;
- explores the use of advanced computer graphics techniques in the development of computer vision algorithms.

Template Matching Techniques in Computer Vision is primarily aimed at practitioners working on the development of systems for effective object recognition such as biometrics, robot navigation, multimedia retrieval and landmark detection. It is also of interest to graduate students undertaking studies in these areas.

 [Download Template Matching Techniques in Computer Vision: T ...pdf](#)

 [Read Online Template Matching Techniques in Computer Vision: ...pdf](#)

Template Matching Techniques in Computer Vision: Theory and Practice

By Roberto Brunelli

Template Matching Techniques in Computer Vision: Theory and Practice By Roberto Brunelli

The detection and recognition of objects in images is a key research topic in the computer vision community. Within this area, face recognition and interpretation has attracted increasing attention owing to the possibility of unveiling human perception mechanisms, and for the development of practical biometric systems. This book and the accompanying website, focus on template matching, a subset of object recognition techniques of wide applicability, which has proved to be particularly effective for face recognition applications. Using examples from face processing tasks throughout the book to illustrate more general object recognition approaches, Roberto Brunelli:

- examines the basics of digital image formation, highlighting points critical to the task of template matching;
- presents basic and advanced template matching techniques, targeting grey-level images, shapes and point sets;
- discusses recent pattern classification paradigms from a template matching perspective;
- illustrates the development of a real face recognition system;
- explores the use of advanced computer graphics techniques in the development of computer vision algorithms.

Template Matching Techniques in Computer Vision is primarily aimed at practitioners working on the development of systems for effective object recognition such as biometrics, robot navigation, multimedia retrieval and landmark detection. It is also of interest to graduate students undertaking studies in these areas.

Template Matching Techniques in Computer Vision: Theory and Practice By Roberto Brunelli Bibliography

- Sales Rank: #1167892 in Books
- Published on: 2009-04-20
- Original language: English
- Number of items: 1
- Dimensions: 9.90" h x 1.05" w x 6.95" l, 1.58 pounds
- Binding: Hardcover
- 348 pages



[Download Template Matching Techniques in Computer Vision: T ...pdf](#)



[Read Online Template Matching Techniques in Computer Vision: ...pdf](#)

Download and Read Free Online Template Matching Techniques in Computer Vision: Theory and Practice By Roberto Brunelli

Editorial Review

From the Back Cover

The detection and recognition of objects in images is a key research topic in the computer vision community. Within this area, face recognition and interpretation has attracted increasing attention owing to the possibility of unveiling human perception mechanisms, and for the development of practical biometric systems. This book and the accompanying website focus on template matching, a subset of object recognition techniques of wide applicability, which has proved to be particularly effective for face recognition applications. Using examples from face processing tasks throughout the book to illustrate more general object recognition approaches, Roberto Brunelli:

- examines the basics of digital image formation, highlighting points critical to the task of template matching;
- presents basic and advanced template matching techniques, targeting grey-level images, shapes and point sets;
- discusses recent pattern classification paradigms from a template matching perspective;
- illustrates the development of a real face recognition system;
- explores the use of advanced computer graphics techniques in the development of computer vision algorithms.

Template Matching Techniques in Computer Vision is primarily aimed at practitioners working on the development of systems for effective object recognition such as biometrics, robot navigation, multimedia retrieval and landmark detection. It is also of interest to graduate students undertaking studies in these areas.

Users Review

From reader reviews:

Gerri Pettit:

In other case, little people like to read book Template Matching Techniques in Computer Vision: Theory and Practice. You can choose the best book if you want reading a book. So long as we know about how is important any book Template Matching Techniques in Computer Vision: Theory and Practice. You can add expertise and of course you can around the world by the book. Absolutely right, mainly because from book you can learn everything! From your country until eventually foreign or abroad you can be known. About simple point until wonderful thing you could know that. In this era, we can open a book or maybe searching by internet gadget. It is called e-book. You should use it when you feel bored stiff to go to the library. Let's go through.

Sally Kim:

Do you one of people who can't read gratifying if the sentence chained in the straightway, hold on guys that aren't like that. This Template Matching Techniques in Computer Vision: Theory and Practice book is readable by means of you who hate those perfect word style. You will find the info here are arrange for enjoyable reading through experience without leaving even decrease the knowledge that want to deliver to you. The writer connected with Template Matching Techniques in Computer Vision: Theory and Practice content conveys the idea easily to understand by a lot of people. The printed and e-book are not different in the articles but it just different such as it. So , do you nonetheless thinking Template Matching Techniques in Computer Vision: Theory and Practice is not loveable to be your top listing reading book?

Homer Holmes:

This Template Matching Techniques in Computer Vision: Theory and Practice is great reserve for you because the content that is certainly full of information for you who all always deal with world and also have to make decision every minute. That book reveal it details accurately using great arrange word or we can point out no rambling sentences in it. So if you are read the idea hurriedly you can have whole facts in it. Doesn't mean it only will give you straight forward sentences but tough core information with lovely delivering sentences. Having Template Matching Techniques in Computer Vision: Theory and Practice in your hand like having the world in your arm, information in it is not ridiculous a single. We can say that no guide that offer you world with ten or fifteen small right but this reserve already do that. So , this can be good reading book. Heya Mr. and Mrs. active do you still doubt that will?

Patricia Coulter:

With this era which is the greater individual or who has ability to do something more are more important than other. Do you want to become considered one of it? It is just simple approach to have that. What you have to do is just spending your time not very much but quite enough to experience a look at some books. Among the books in the top checklist in your reading list is usually Template Matching Techniques in Computer Vision: Theory and Practice. This book that is qualified as The Hungry Mountains can get you closer in becoming precious person. By looking up and review this book you can get many advantages.

**Download and Read Online Template Matching Techniques in Computer Vision: Theory and Practice By Roberto Brunelli
#126ALD8FUHW**

Read Template Matching Techniques in Computer Vision: Theory and Practice By Roberto Brunelli for online ebook

Template Matching Techniques in Computer Vision: Theory and Practice By Roberto Brunelli 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 Template Matching Techniques in Computer Vision: Theory and Practice By Roberto Brunelli books to read online.

Online Template Matching Techniques in Computer Vision: Theory and Practice By Roberto Brunelli ebook PDF download

Template Matching Techniques in Computer Vision: Theory and Practice By Roberto Brunelli Doc

Template Matching Techniques in Computer Vision: Theory and Practice By Roberto Brunelli MobiPocket

Template Matching Techniques in Computer Vision: Theory and Practice By Roberto Brunelli EPub