



Practical Image and Video Processing Using MATLAB

Oge Marques

Download now

[Click here](#) if your download doesn't start automatically

Practical Image and Video Processing Using MATLAB

Oge Marques

Practical Image and Video Processing Using MATLAB Oge Marques

Up-to-date, technically accurate coverage of essential topics in image and video processing

This is the first book to combine image and video processing with a practical MATLAB®-oriented approach in order to demonstrate the most important image and video techniques and algorithms. Utilizing minimal math, the contents are presented in a clear, objective manner, emphasizing and encouraging experimentation.

The book has been organized into two parts. Part I: Image Processing begins with an overview of the field, then introduces the fundamental concepts, notation, and terminology associated with image representation and basic image processing operations. Next, it discusses MATLAB® and its Image Processing Toolbox with the start of a series of chapters with hands-on activities and step-by-step tutorials. These chapters cover image acquisition and digitization; arithmetic, logic, and geometric operations; point-based, histogram-based, and neighborhood-based image enhancement techniques; the Fourier Transform and relevant frequency-domain image filtering techniques; image restoration; mathematical morphology; edge detection techniques; image segmentation; image compression and coding; and feature extraction and representation.

Part II: Video Processing presents the main concepts and terminology associated with analog video signals and systems, as well as digital video formats and standards. It then describes the technically involved problem of standards conversion, discusses motion estimation and compensation techniques, shows how video sequences can be filtered, and concludes with an example of a solution to object detection and tracking in video sequences using MATLAB®.

Extra features of this book include:

- More than 30 MATLAB® tutorials, which consist of step-by-step guides to exploring image and video processing techniques using MATLAB®
- Chapters supported by figures, examples, illustrative problems, and exercises
- Useful websites and an extensive list of bibliographical references

This accessible text is ideal for upper-level undergraduate and graduate students in digital image and video processing courses, as well as for engineers, researchers, software developers, practitioners, and anyone who wishes to learn about these increasingly popular topics on their own.

Supplemental resources for readers and instructors can be found at <http://www.ogemarques.com>

 [Download Practical Image and Video Processing Using MATLAB ...pdf](#)

 [Read Online Practical Image and Video Processing Using MATLAB ...pdf](#)

Download and Read Free Online Practical Image and Video Processing Using MATLAB Oge Marques

From reader reviews:

Donna Beckman:

With other case, little men and women like to read book Practical Image and Video Processing Using MATLAB. You can choose the best book if you want reading a book. Providing we know about how is important a book Practical Image and Video Processing Using MATLAB. You can add understanding and of course you can around the world by way of a book. Absolutely right, since from book you can realize everything! From your country until foreign or abroad you may be known. About simple issue until wonderful thing you can know that. In this era, we could open a book as well as searching by internet gadget. It is called e-book. You need to use it when you feel weary to go to the library. Let's read.

Cheri Whaley:

Exactly why? Because this Practical Image and Video Processing Using MATLAB is an unordinary book that the inside of the guide waiting for you to snap this but latter it will distress you with the secret this inside. Reading this book next to it was fantastic author who else write the book in such wonderful way makes the content within easier to understand, entertaining method but still convey the meaning fully. So , it is good for you because of not hesitating having this any longer or you going to regret it. This phenomenal book will give you a lot of benefits than the other book have got such as help improving your expertise and your critical thinking method. So , still want to hesitate having that book? If I ended up you I will go to the e-book store hurriedly.

Brian Rankins:

Do you have something that you like such as book? The publication lovers usually prefer to select book like comic, limited story and the biggest the first is novel. Now, why not trying Practical Image and Video Processing Using MATLAB that give your satisfaction preference will be satisfied by simply reading this book. Reading habit all over the world can be said as the way for people to know world much better then how they react in the direction of the world. It can't be stated constantly that reading practice only for the geeky individual but for all of you who wants to end up being success person. So , for all of you who want to start reading as your good habit, you are able to pick Practical Image and Video Processing Using MATLAB become your personal starter.

Rosa Goldschmidt:

With this era which is the greater particular person or who has ability to do something more are more special than other. Do you want to become one of it? It is just simple solution to have that. What you are related is just spending your time little but quite enough to have a look at some books. One of several books in the top collection in your reading list is usually Practical Image and Video Processing Using MATLAB. This book which is qualified as The Hungry Hillsides can get you closer in turning into precious person. By looking upwards and review this publication you can get many advantages.

**Download and Read Online Practical Image and Video Processing
Using MATLAB Oge Marques #DOHUZCEIWR2**

Read Practical Image and Video Processing Using MATLAB by Oge Marques for online ebook

Practical Image and Video Processing Using MATLAB by Oge Marques 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 Practical Image and Video Processing Using MATLAB by Oge Marques books to read online.

Online Practical Image and Video Processing Using MATLAB by Oge Marques ebook PDF download

Practical Image and Video Processing Using MATLAB by Oge Marques Doc

Practical Image and Video Processing Using MATLAB by Oge Marques Mobipocket

Practical Image and Video Processing Using MATLAB by Oge Marques EPub