



Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication)

By K. N. Ngan, T. Meier, D. Chai

 Download

 Read Online

Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) By K. N. Ngan, T. Meier, D. Chai

In recent years, the paradigm of video coding has shifted from that of a frame-based approach to a content-based approach, particularly with the finalization of the ISO multimedia coding standard, MPEG-4. MPEG-4 is the emerging standard for the coding of multimedia content. It defines a syntax for a set of content-based functionalities, namely, content-based interactivity, compression and universal access. However, it does not specify how the video content is to be generated. To generate the video content, video has to be segmented into video objects and tracked as they transverse across the video frames. This book addresses the difficult problem of video segmentation, and the extraction and tracking of video object planes as defined in MPEG-4. It then focuses on the specific issue of face segmentation and coding as applied to videoconferencing in order to improve the quality of videoconferencing images especially in the facial region.

Modal-based coding is a content-based coding technique used to code synthetic objects that have become an important part of video content. It results in extremely low bit rates because only the parameters needed to represent the modal are transmitted. Model-based coding is included to provide background information for the synthetic object coding in MPEG-4. Lastly, MPEG-4, the first coding standard for multimedia content is described in detail. The topics covered include the coding of audio objects, the coding of natural and synthetic video objects, and error resilience.

Advanced Video Coding is one of the first books on content-based coding and MPEG-4 coding standard. It serves as an excellent information source and reference for both researchers and practicing engineers.

 [Download Advanced Video Coding: Principles and Techniques: ...pdf](#)

 [Read Online Advanced Video Coding: Principles and Techniques ...pdf](#)



Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication)

By K. N. Ngan, T. Meier, D. Chai

Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) By K. N. Ngan, T. Meier, D. Chai

In recent years, the paradigm of video coding has shifted from that of a frame-based approach to a content-based approach, particularly with the finalization of the ISO multimedia coding standard, MPEG-4. MPEG-4 is the emerging standard for the coding of multimedia content. It defines a syntax for a set of content-based functionalities, namely, content-based interactivity, compression and universal access. However, it does not specify how the video content is to be generated. To generate the video content, video has to be segmented into video objects and tracked as they transverse across the video frames. This book addresses the difficult problem of video segmentation, and the extraction and tracking of video object planes as defined in MPEG-4. It then focuses on the specific issue of face segmentation and coding as applied to videoconferencing in order to improve the quality of videoconferencing images especially in the facial region.

Modal-based coding is a content-based coding technique used to code synthetic objects that have become an important part of video content. It results in extremely low bit rates because only the parameters needed to represent the modal are transmitted. Model-based coding is included to provide background information for the synthetic object coding in MPEG-4. Lastly, MPEG-4, the first coding standard for multimedia content is described in detail. The topics covered include the coding of audio objects, the coding of natural and synthetic video objects, and error resilience.

Advanced Video Coding is one of the first books on content-based coding and MPEG-4 coding standard. It serves as an excellent information source and reference for both researchers and practicing engineers.

Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) By K. N. Ngan, T. Meier, D. Chai Bibliography

- Rank: #4270067 in eBooks
- Published on: 1999-08-31
- Released on: 1999-08-31
- Format: Kindle eBook

 [Download Advanced Video Coding: Principles and Techniques: ...pdf](#)

 [Read Online Advanced Video Coding: Principles and Techniques ...pdf](#)

Download and Read Free Online Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) By K. N. Ngan, T. Meier, D. Chai

Editorial Review

Users Review

From reader reviews:

Maria Saad:

Throughout other case, little folks like to read book Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication). You can choose the best book if you like reading a book. Providing we know about how is important some sort of book Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication). You can add information and of course you can around the world by way of a book. Absolutely right, since from book you can understand everything! From your country right up until foreign or abroad you will be known. About simple matter until wonderful thing you could know that. In this era, you can open a book as well as searching by internet gadget. It is called e-book. You need to use it when you feel uninterested to go to the library. Let's read.

Teresa Fernandez:

What do you concerning book? It is not important along with you? Or just adding material if you want something to explain what your own problem? How about your extra time? Or are you busy person? If you don't have spare time to accomplish others business, it is give you a sense of feeling bored faster. And you have time? What did you do? All people has many questions above. They need to answer that question mainly because just their can do in which. It said that about reserve. Book is familiar on every person. Yes, it is appropriate. Because start from on jardín de infancia until university need this particular Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) to read.

Raymond McMillion:

This Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) is fresh way for you who has attention to look for some information mainly because it relief your hunger details. Getting deeper you onto it getting knowledge more you know or you who still having little bit of digest in reading this Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) can be the light food to suit your needs because the information inside this specific book is easy to get by simply anyone. These books build itself in the form and that is reachable by anyone, yep I mean in the e-book contact form. People who think that in e-book form make them feel drowsy even dizzy this book is the answer. So there is absolutely no in reading a book especially this one. You can find actually looking for. It should be here for you actually. So , don't miss this! Just read this e-book sort for your better life as well as knowledge.

Stephen Wilson:

What is your hobby? Have you heard which question when you got college students? We believe that that concern was given by teacher on their students. Many kinds of hobby, Everybody has different hobby. So you know that little person just like reading or as looking at become their hobby. You have to know that reading is very important in addition to book as to be the factor. Book is important thing to increase you knowledge, except your own personal teacher or lecturer. You see good news or update in relation to something by book. A substantial number of sorts of books that can you decide to try be your object. One of them are these claims Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication).

Download and Read Online Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) By K. N. Ngan, T. Meier, D. Chai #FKI970ODX3R

Read Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) By K. N. Ngan, T. Meier, D. Chai for online ebook

Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) By K. N. Ngan, T. Meier, D. Chai 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 Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) By K. N. Ngan, T. Meier, D. Chai books to read online.

Online Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) By K. N. Ngan, T. Meier, D. Chai ebook PDF download

Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) By K. N. Ngan, T. Meier, D. Chai Doc

Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) By K. N. Ngan, T. Meier, D. Chai Mobipocket

Advanced Video Coding: Principles and Techniques: The Content-based Approach (Advances in Image Communication) By K. N. Ngan, T. Meier, D. Chai EPub