

Handbook of Image and Video Processing, Second Edition

图像与视频

处理手册 (下册)

(第二版) (英文版)

[美] Alan Bovik 编著



电子工业出版社

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内 容 简 介

本书介绍了图像和视频处理方面的基本原理、主要技术和典型应用，相关的内容包括图像与视频的增强和恢复，分类和分割，图像边缘检测，图像处理算法，图像压缩、存储、重取和通信，以及图像处理的应用。全书按内容聘请有关专家编写，涉及范围广、内容新、质量高，反映了最新的研究成果。本书的下册主要针对图像压缩、视频压缩、图像与视频获取、图像与视频的存取和通信、图像处理的应用等内容进行了深入的介绍。

本书可作为学习图像和视频处理课程的本科生、研究生的教材与参考用书，并且对于从事图像和视频方面研究的人员也是一本很好的参考材料。

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Alan Bovik

ISBN: 0-12-119792-1

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Authorized English language reprint edition published by the Proprietor.

ISBN: 981-259-629-1.

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图书在版编目 (CIP) 数据

图像与视频处理手册. 下册 = Handbook of Image and Video Processing, Second Edition: 第 2 版

(美) 博维克 (Bovik, A.) 著. - 影印本. - 北京: 电子工业出版社, 2006.3

ISBN 7-121-02302-4

I. 图… II. 博… III. ①图像处理 - 手册 - 英文 ②视频信号 - 信号处理 - 手册 - 英文

IV. ①TN911.73-62 ②TN941.1-62

中国版本图书馆 CIP 数据核字 (2006) 第 012209 号

责任编辑：冯小贝

印 刷：北京市天竺颖华印刷厂

出版发行：电子工业出版社

北京市海淀区万寿路 173 信箱 邮编：100036

经 销：各地新华书店

开 本：787 × 980 1/16 印张：46 字数：1030 千字 彩插：8 页

印 次：2006 年 3 月第 1 次印刷

定 价：89.00 元

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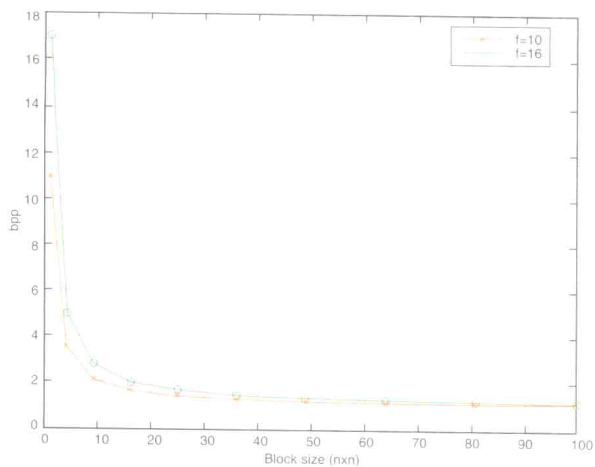


Figure 5.2.4



Figure 5.2.6

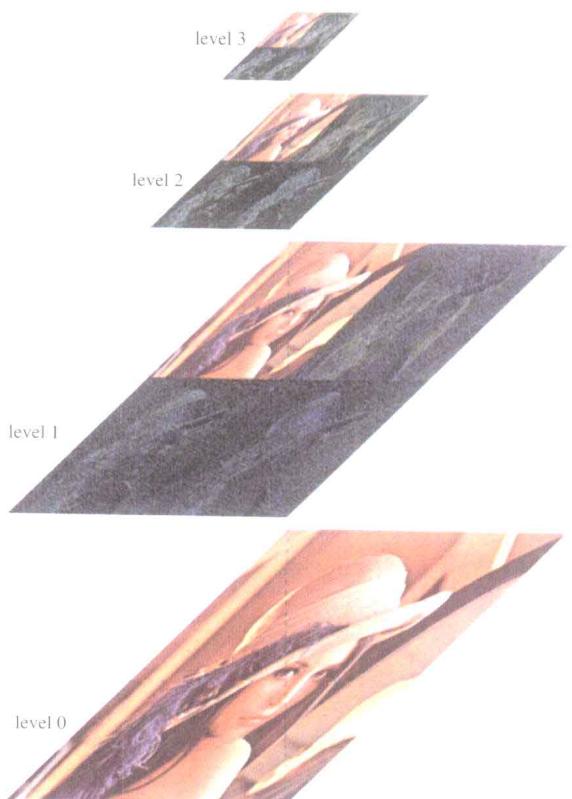


Figure 5.4.1



Figure 5.5.13

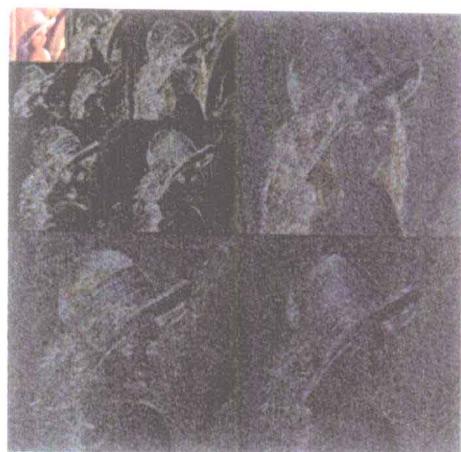


Figure 5.4.2

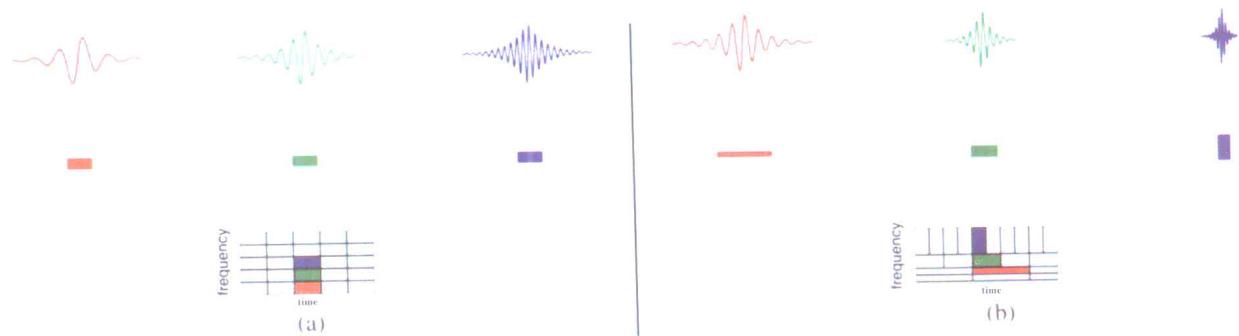


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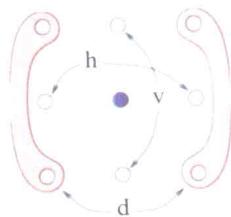


Figure 5.5.17



Figure 6.5.17



Figure 6.2.20



Figure 6.2.21
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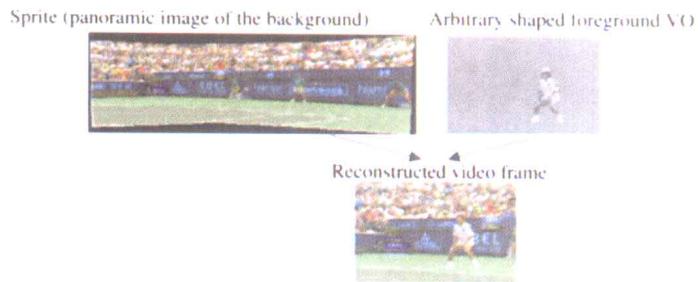


Figure 6.5.7



Figure 6.6.1



Figure 7.1.1

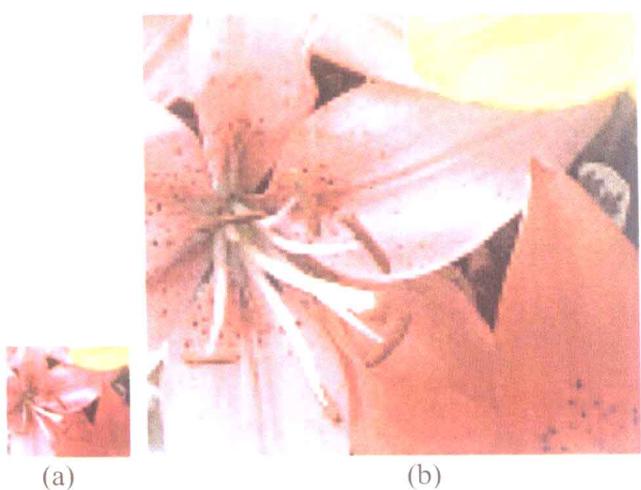


Figure 7.1.11



Figure 7.1.13

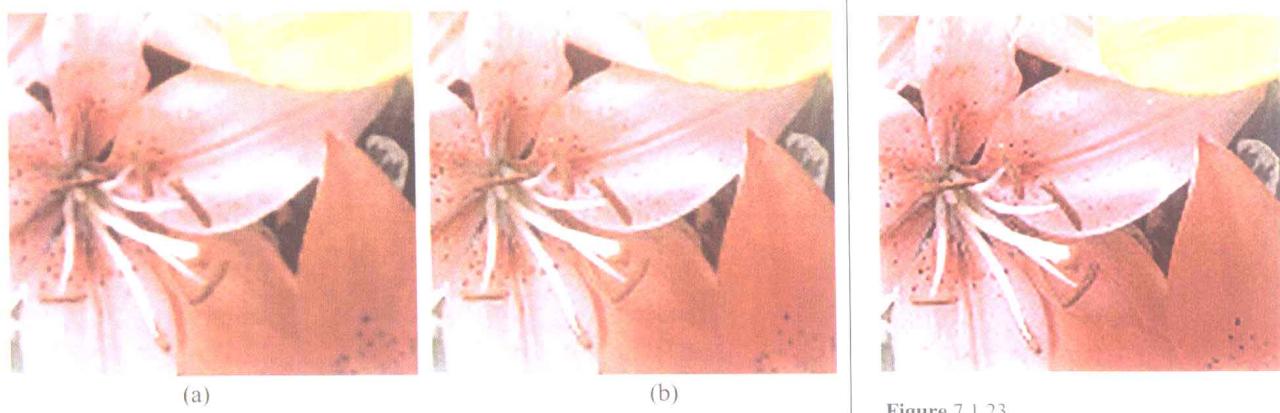


Figure 7.1.19

Figure 7.1.23

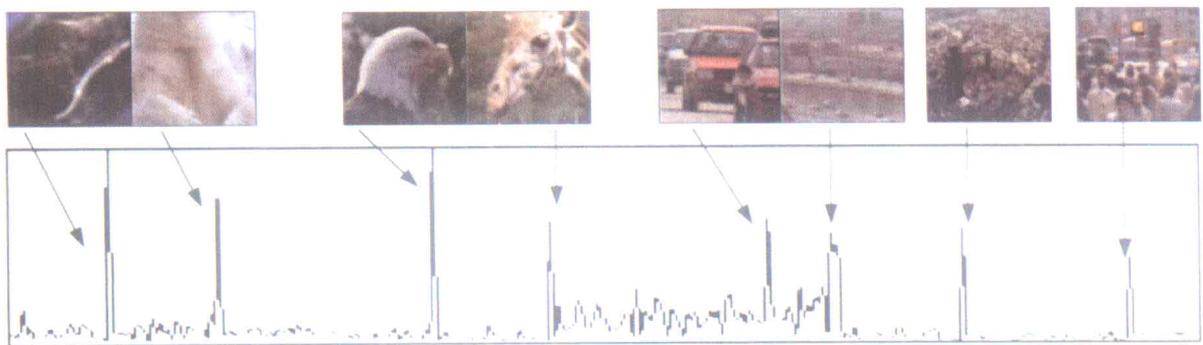


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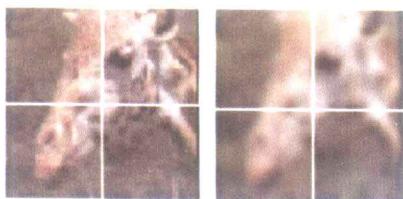
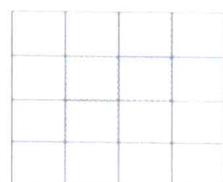


Figure 9.1.1



Figure 9.1.3



Object Motion



Static Grid



Motion Grid



Camera Motion

Figure 9.1.4



Figure 9.1.5



Figure 9.1.6

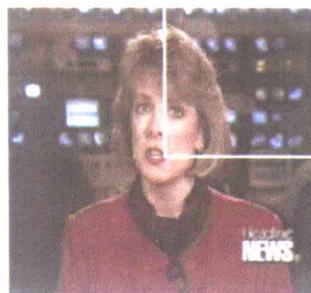


Figure 9.1.8

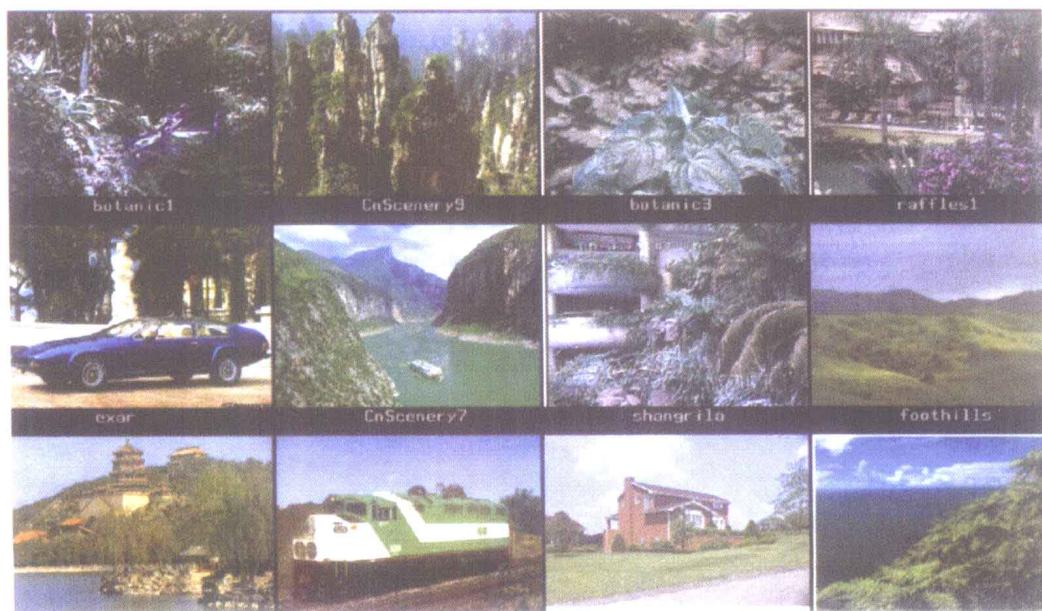


Figure 9.1.9



Figure 9.1.10

Video G/A

You have just watched a short video representation of a much larger video clip. Please select 8 of the images below which you think most accurately describe the contents of this larger video clip. Click the mouse over any image or text line you wish to mark. Click over a marked item to start its mask. You can move on after you make your 8 selections.

1. Neanderthals carried the way moderns breath
Neanderthals buried their dead
Early hominids used stone cutting methods
Studies of Neanderthal anatomy
Dole Neanderthals are well represented in the fossil record
Discovery of oldest known crutch at Mount Carmel
Thermoluminescence dating would provide answers
Neanderthals had very large front teeth
Culture took a quantum leap - the appearance of art
When did the pattern of modern humans come on the scene
Let's try again! Framed documents of prehistoric people
Bones work with DNA from ancient burial remnants
Cave etchings reveal the work of a skilled artist
Modern humans were alive at the same time as Neanderthals
Archaeologists have searched the area for decades
People began to depict the world around them

8 images selected
6 text lines selected

Figure 9.1.11

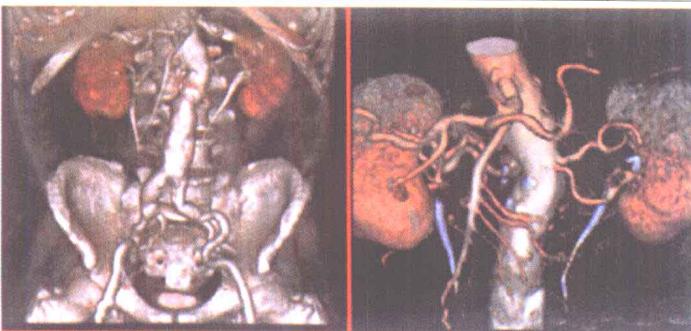


Figure 10.2.5

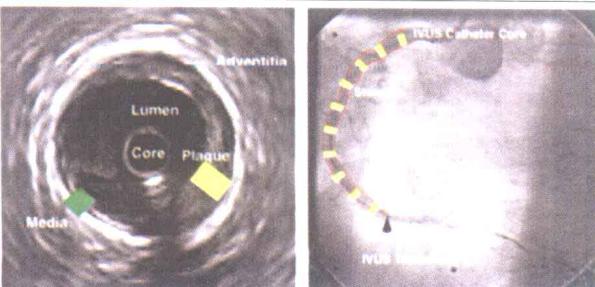


Figure 10.3.8

Original Video (1100 frames)



Skim Video (78 frames)



Figure 9.1.12

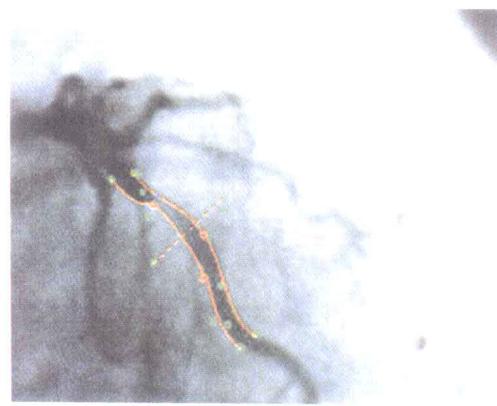


Figure 10.3.3



Figure 10.3.6

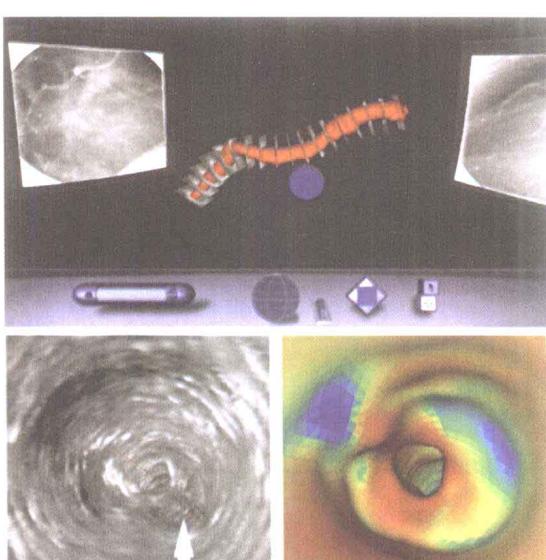


Figure 10.3.9

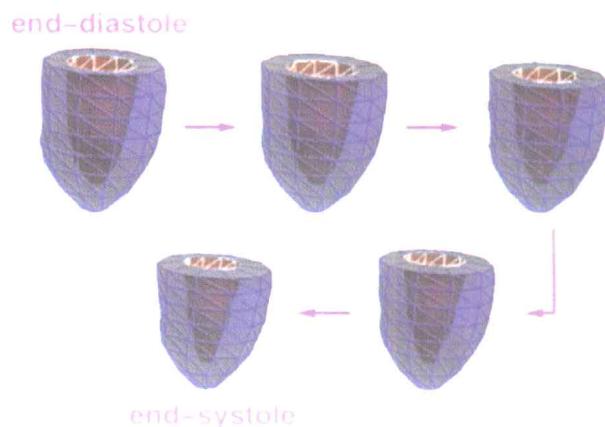


Figure 10.3.16

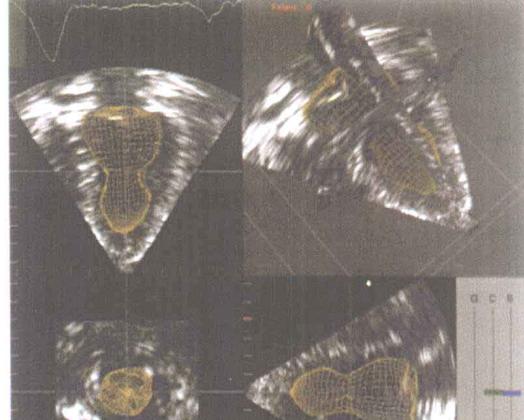


Figure 10.3.14

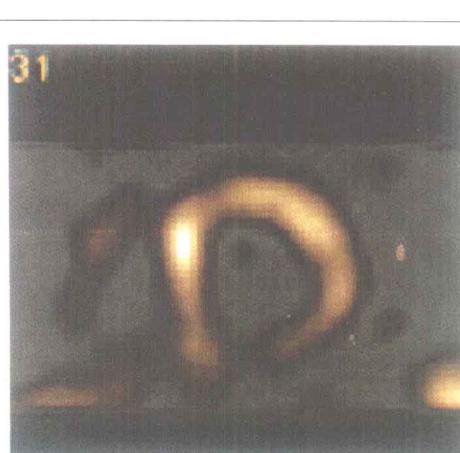


Figure 10.3.17

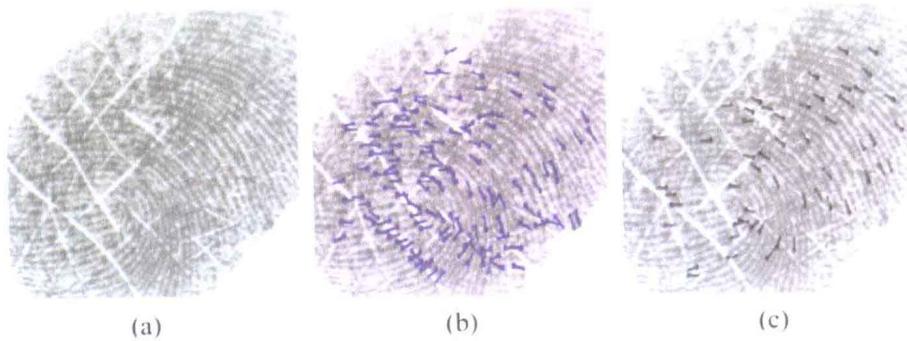


Figure 10.5.8



Figure 10.5.13

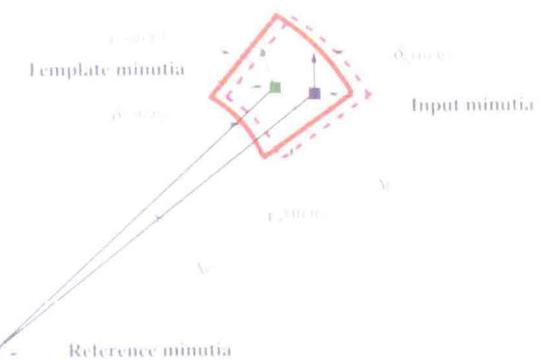


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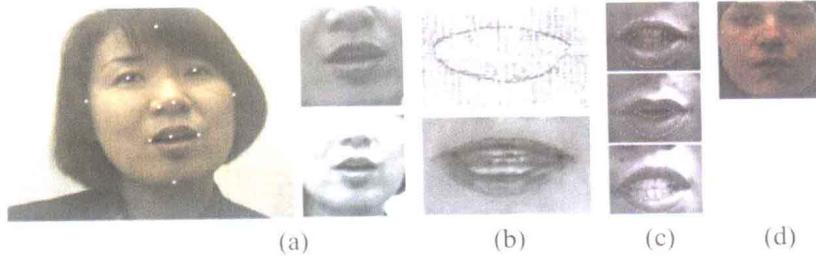


Figure 10.8.2

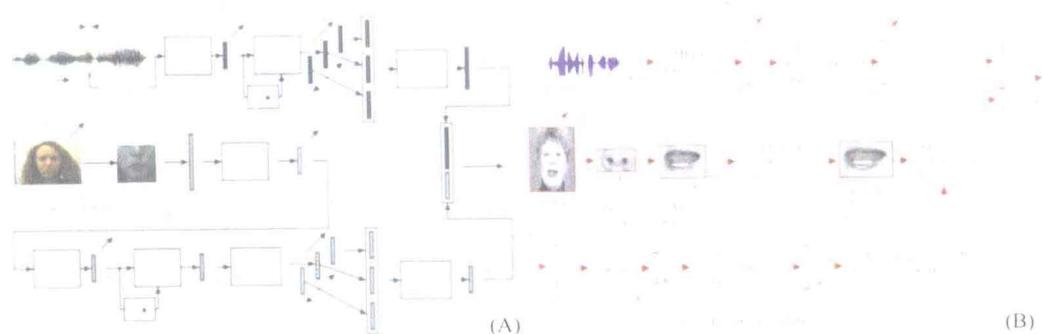


Figure 10.8.5



Figure 10.8.9

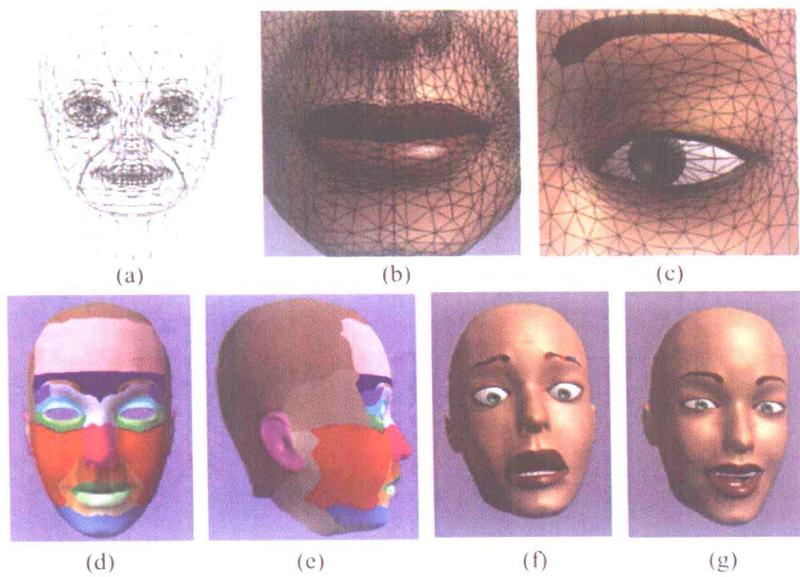


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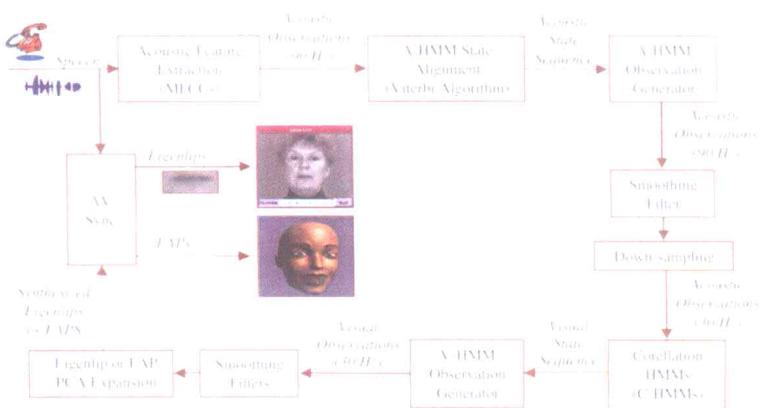


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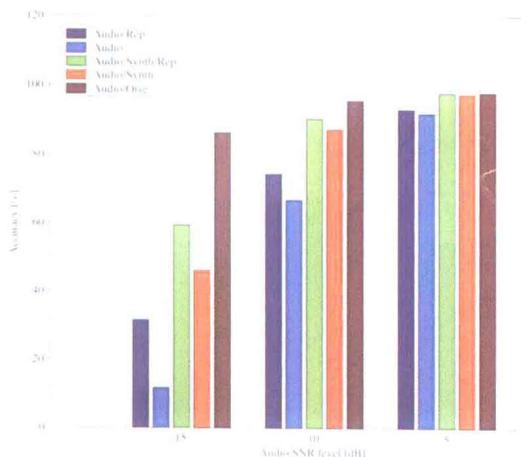


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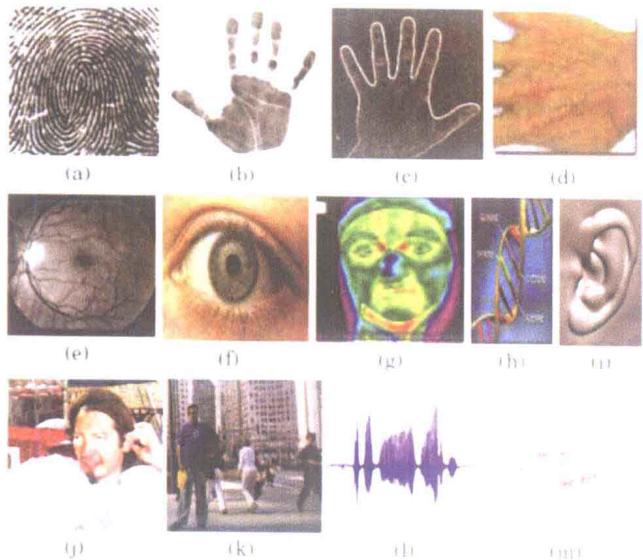


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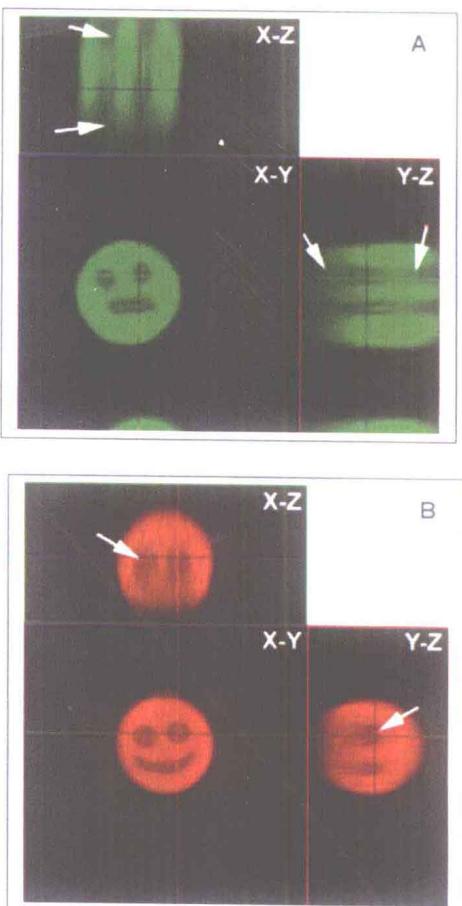


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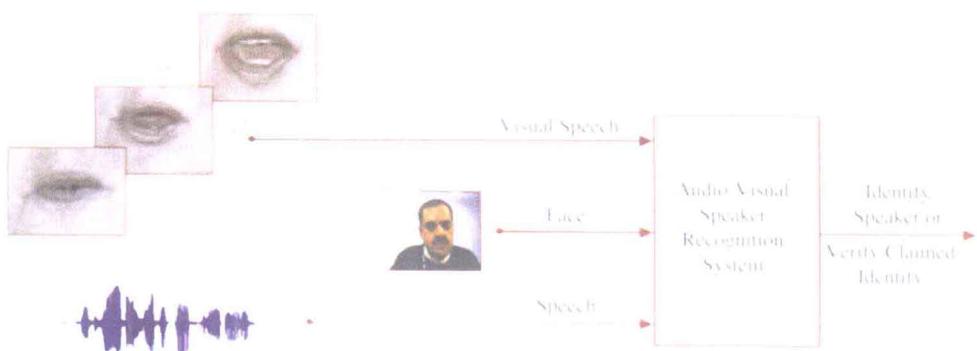


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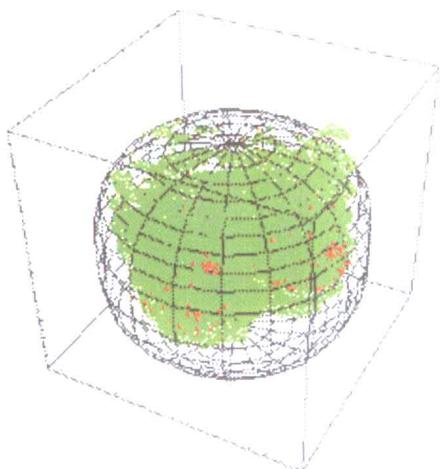


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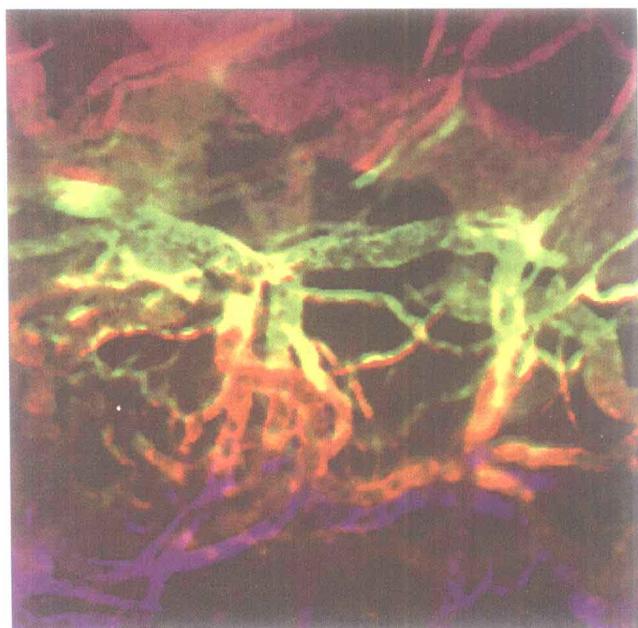


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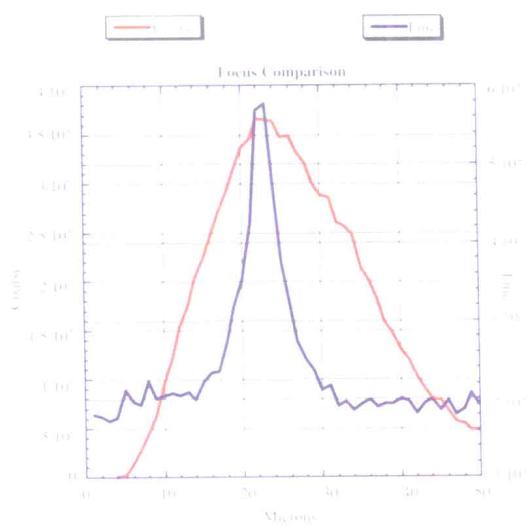


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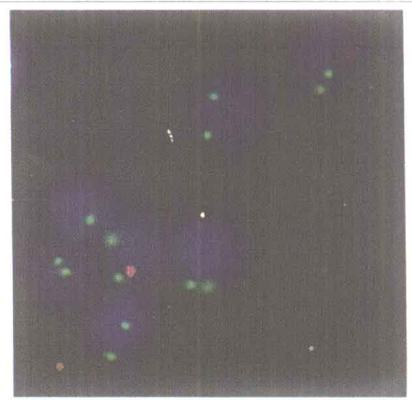
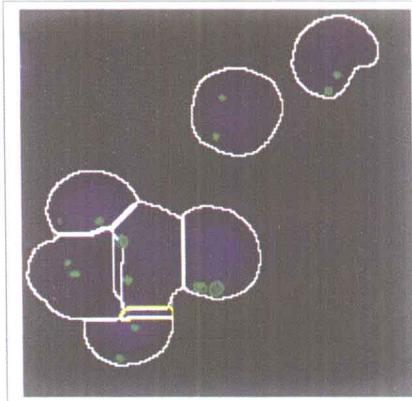


Figure 10.10.6

Figure 10.10.4

Scan Section Selection:

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24

Section Number: 0 Frame Count: 0 of 15252 Metaphases Found: 0

X Axis Factor: 0.95 Y Axis Factor: 0.95

Case Name:

Go To Next Section After Finding Metaphases

Save All Images



Figure 10.10.8

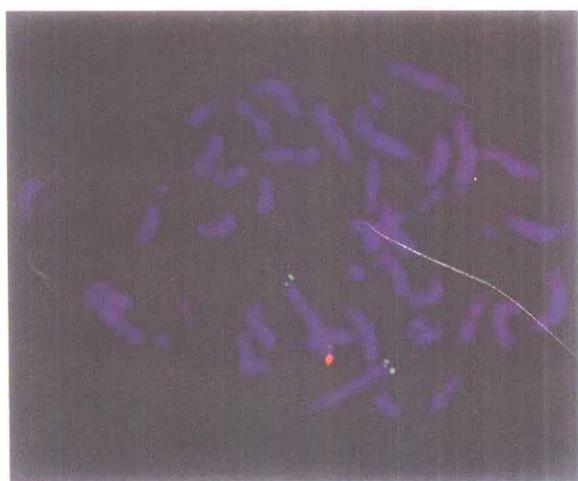


Figure 10.10.9

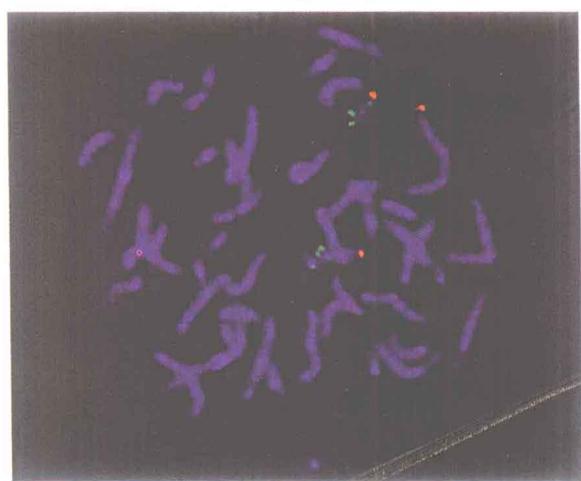


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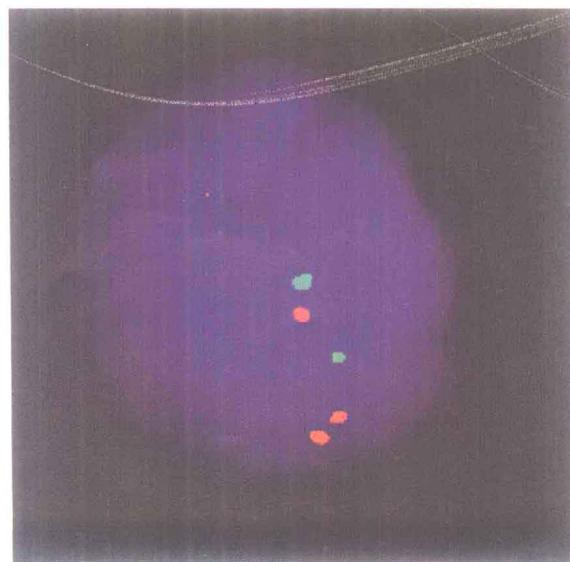


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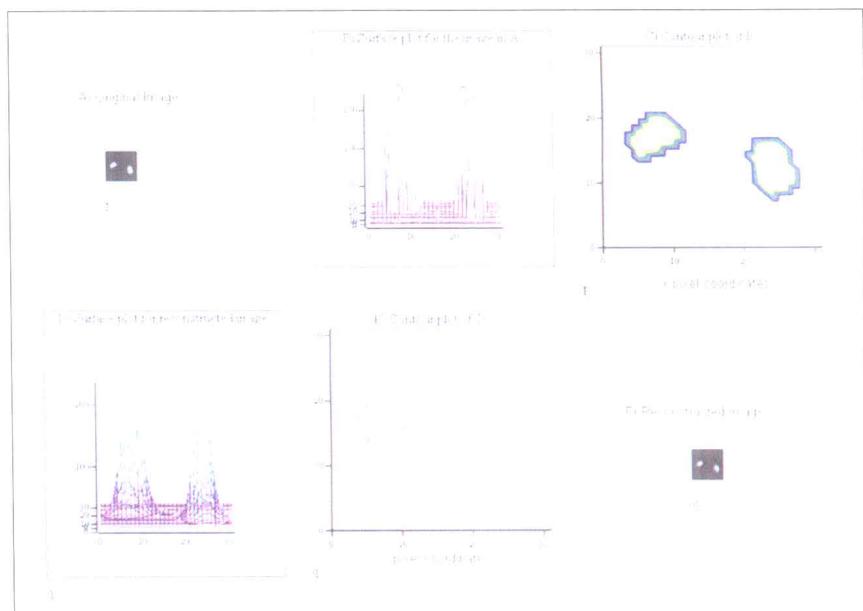


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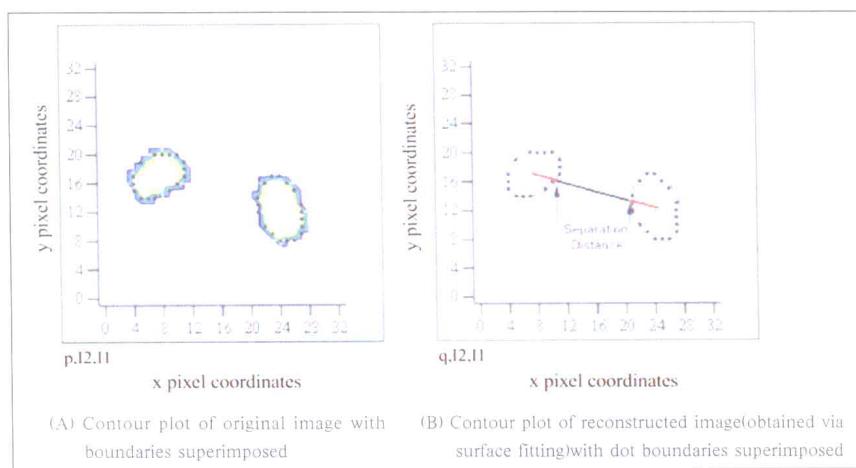
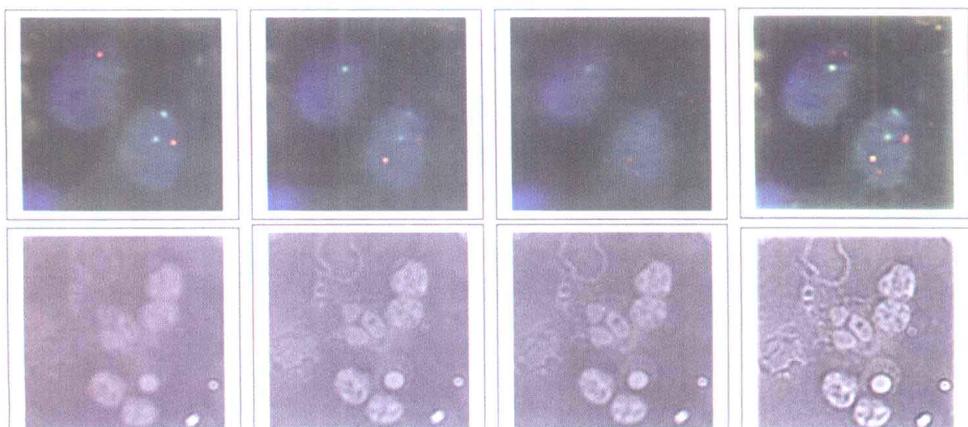


Figure 10.10.12

Figure 10.10.17
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