Introduction

• What IS computer vision?

the analysis of digital images by a computer

• Where do images come from?
Applications: Medical Imaging

CT image of a patient’s abdomen
Visible Man Slice Through Lung
3D Reconstruction of the Blood Vessel Tree
Slice of a Chicken Embryo’s Inner Ear
CBIR of Mouse Eye Images for Genetic Studies
Robotics

• 2D Gray-tone or Color Images

“Mars” rover

• 3D Range Images

What am I?
• Robot Soccer
Image Databases:

Images from my Ground-Truth collection:
http://www.cs.washington.edu/research/imagedatabase/groundtruth

- retrieve images containing trees
Some Features for Image Retrieval

Original Images

Color Regions

Texture Regions

Line Clusters
Model 145 Isotemp® Dry Bath Incubator

- Heats 1 m x 4 heating blocks with choice of 11 well sizes
- Maintains every well to within ± 1°C of target temperature

In a space-saving 12" x 12" footprint, the Model 145 Isotemp® Dry Bath Incubator provides the same performance as larger, more expensive units, in a fraction of the footprint. It is ideal for small laboratories and is perfect for heating and warming experiments. The Model 145's small size and high performance make it an excellent choice for laboratories space constraint.

Model 147 Isotemp® Dry Bath

- Heats single heating block with choice of 11 well sizes

The Model 147 Isotemp® Dry Bath is a compact, versatile dry bath for heating and warming applications. It is perfect for laboratories where space is limited and high performance is required. The Model 147 features a single heating block with choice of 11 well sizes, allowing for precise temperature control and efficient use of space.

Interchangeable Heating Blocks for Isotemp® Dry Baths

For Models 145 and 147, the Interchangeable Heating Blocks are a convenient and cost-effective solution. Available in a variety of sizes, these blocks allow for flexibility in heating and warming experiments.

Tinox® Bank Partial Immersion Thermometers

- For all standard tests in blocks and water baths
- Glass thermometer

The Tinox® Bank Partial Immersion Thermometers are designed for all standard tests in blocks and water baths. They feature a glass thermometer, ensuring accuracy and reliability in temperature measurement.

Mata Thermometers

For more thermometers, including digital types, see page 552

In this section, we have a comprehensive range of thermometers suitable for various applications. Whether you need a glass thermometer for laboratory settings or a digital thermometer for industrial use, we have the right solution for you.
Classified Results:

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Calineuria (Cal)
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Yor (Yor)
Surveillance: Event Recognition in Aerial Videos

Original Video Frame

Color Regions

Structure Regions
Face Detection (and Recognition)
Graphics: Special Effects

Andy Serkis, Gollum, Lord of the Rings
3D Reconstruction and Graphics Viewer
Object Recognition from “Parts”

Part 1 – Det:5e-18

Part 2 – Det:8e-22

Part 3 – Det:6e-18

Part 4 – Det:1e-19

Part 5 – Det:3e-17

Part 6 – Det:4e-24

Background – Det:5e-19