

Classification of Image Segmentation Algorithms

Segmentation Algorithms

Based on
User Interaction

Based on
Pixel Relationship

Manual

Automatic

Semi-Automatic

Contextual
(region based
or global)

Non-contextual
(pixel based
or local)

↓
human
observer

* Initialised
points
* Extraction



Applications:

- Machine/Robot vision
- Color processing
- Pattern recognition
- Video processing
- Microscopic Imaging

- Image sharpening and restoration
- Medical field
- Remote sensing
- Transmission and encoding

