

Figure 1: A series of 10 panels (a-j) illustrating the process of image segmentation and feature extraction for a dataset of small, colorful objects (e.g., toy blocks) on a light background. The panels are arranged in a 5x2 grid.

- Panel (a):** Original image showing a collection of small, colorful objects (red, blue, yellow, green) scattered on a light gray background.
- Panel (b):** The same image as (a), but with a red bounding box around the entire scene, indicating the region of interest.
- Panel (c):** The same image as (a), but with a red bounding box around the entire scene, indicating the region of interest.
- Panel (d):** The same image as (a), but with a red bounding box around the entire scene, indicating the region of interest.
- Panel (e):** The same image as (a), but with a red bounding box around the entire scene, indicating the region of interest.
- Panel (f):** The same image as (a), but with a red bounding box around the entire scene, indicating the region of interest.
- Panel (g):** The same image as (a), but with a red bounding box around the entire scene, indicating the region of interest.
- Panel (h):** The same image as (a), but with a red bounding box around the entire scene, indicating the region of interest.
- Panel (i):** The same image as (a), but with a red bounding box around the entire scene, indicating the region of interest.
- Panel (j):** The same image as (a), but with a red bounding box around the entire scene, indicating the region of interest.

The figure demonstrates the process of image segmentation and feature extraction for a dataset of small, colorful objects. The panels show the original image, the image with a bounding box, and the image with a bounding box. The bounding box is used to crop the region of interest from the original image. The cropped image is then used for feature extraction and segmentation.

