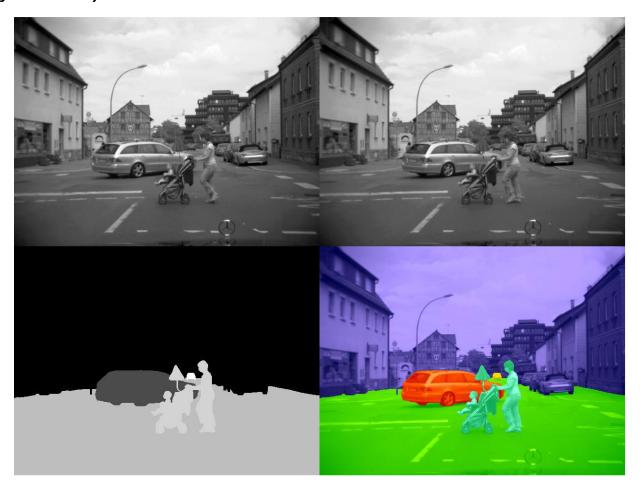
## Florida Polytechnic University

CAP 4410 Assignment #3

**Due Date:** Sunday 10 March 2024, midnight. In your assignment, please be sure to explain all mentioned points CLEARLY. **Submit your assignment in electronic format (only on canvas, do not email me). Please follow previous template of the report.** 

This assignment requires you to work out a suggestion for semantic segmentation method for some simple input images. You are provided with a set of experimental data. Do your own research on image segmentation and find a way to handle those data.



Example for semantic segmentation

- Select your input data from the Input Data Folder.
- You are required to "cut out" the main subjects such as sky, ground, or a person.
- Implement Otsu Binarization method. If your data has more information, you can create multiple thresholds to detect multiple objects.
- Apply mean shift segmentation method.

## **Your Submission**

To finalize your report,

- start with identifying yourself and provide a title for your report,
- include outputs of your program and code into this report
- do not copy from somewhere without proper citation and reference but aim at writing in your own words.
- Mention all implementation details.
- Finally submit (together with your sources) your report in PDF format, all in one zip file.
- Only use the given data.

## Rubric

<ul> <li>Format of report</li> </ul>	05 points
<ul> <li>Clarity of explanation</li> </ul>	05 points
<ul> <li>Otsu Method with 2 classes</li> </ul>	30 points
<ul> <li>Otsu Method with multiple classes</li> </ul>	30 points
<ul> <li>Mean Shift Method Implementation</li> </ul>	30 points

Wish You Best of Luck