LARGE CROWD COUNTING

by MIRTES CORREA

• Wekiva High School – Orange County (Apopka)
• 5th year teaching
• AP Computer Principles and AP Statistics
MOTIVATION AND EDUCATIONAL GOALS

• To introduce the concepts of Computer Vision, crowd counting and edge detection
• Show all the opportunities on the Computer Science jobs
• Use real-world applications of Computer Vision and Computer Science
• Practice and compare different methods for Large Crowd Counting
• Create Algorithm for count large crowd image
DAY 1 - Computer Vision
• definition and areas of application
• UCF – Center for Research for Computer Vision

DAY 2 & 3 – CROWD COUNTING
• Algorithm: how to count people/objects in an image
• Apply Jacob’s Method for Crowd counting
• Students count crowd manually
• Compare manual and software for Crowd Counting

Day 4 – EDGE DETECTION
• How a computer see an image
• Convolution intuition / edge detection
• Practice example (multiply matrix to detect edge)
thank you