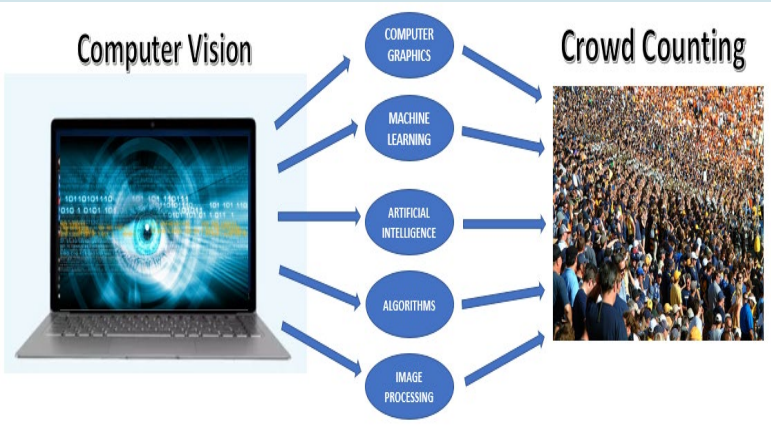
LARGE CROWD COUNTING

by MIRTES CORREA

RET 2018

- 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

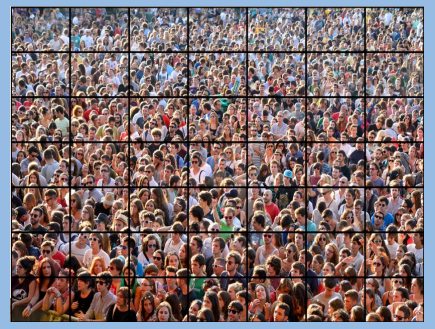
DAY 1 - Computer Vision

- definition and areas of application
- UCF – Center for Research for Computer Vision



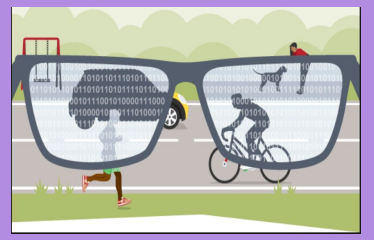
DAY 2 & 3 – CROWD COUNTING

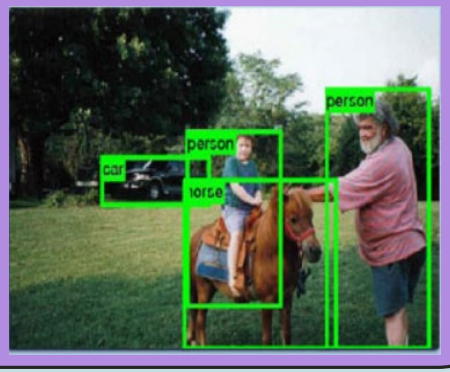
- Algorithm: how to count people/objects in an image
- Apply Jacob's Method for Crowd counting
- Students count crowd manually
- Compare manual and software for Crowd Counting



Day 4 – EDGE DETECTION

- How a computer see an image
- Convolution intuition / edge detection
- Practice example (multiply matrix to detect edge)






thank you
merci
gracias
danke
obrigado
dziękuję
bedankt
谢谢
ngiyabonga
teşekkür ederim
dank je
go raibh maith agat
sukriya
kop khun krap
terima kasih
grazie
arigatô
dakujem
tapadh leat
mochchakkeram
спасибо
рахмат
Баярлалаа
faafetai lava
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matondo
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