KODLUYORUZ
geleceği kodluyoruz >_

EMpower
Enriching young lives in emerging markets

Bilgisayarda Görü

Kullanılan İçerikler:

Görüntü Atıfları

1 - 1 - Sayısal Görüntü İşleme nedir

- 0:0 - 0:13 https://www.youtube.com/watch?v=i3_n3Ibfn1c&t=0s
- 0:38 - 1:02 https://www.youtube.com/watch?v=i3_n3Ibfn1c&t=0s

1 - 2 - Sayısal Görüntü İşleme nerelerde kullanılır

- 0:01 - 0:16
    - https://www.youtube.com/watch?v=u_R47LDdlZM
    - https://www.nobelprize.org/prizes/medicine/1979/summary/
- 0:17 - 0:36 https://www.nasa.gov/content/hubbles-mirror-flaw
- 0:45 - 1:06 https://www.youtube.com/watch?v=H72_4i2_bjE
- 1:07 - 1:21
    - https://iboostup.com/app/org.bravecloud.imageenhanceandrestore#
    - https://www.npr.org/sections/thetwo-way/2017/12/19/571954455/facebook-expands-use-of-facial-recognition-to-id-users-in-photos
    - https://www.freepik.com/free-vector/man-face-scan-biometric-digital-technology_5597121.htm#query=face%20recognition&position=6#position=6&query=face%20recognition
- 1:22 - 1:46 https://www.youtube.com/watch?v=pNf4-d6fDoY
- 1:47 - 2:05 https://twitter.com/i/status/1109741811310837760

2 - Görüntü oluşumu

- 0:04 - 0:13 https://www.youtube.com/watch?v=i3_n3Ibfn1c&t=0s

- 0:38 - 1:02 https://www.youtube.com/watch?v=i3_n3Ibfn1c&t=0s
- 2:55 - 3:33 Gonzalez& Woods, Digital Image Processing (2002)
- 3:35 - 4:07 http://www.artdreamguide.com/_arti/van-gogh/_opus/518.htm
- 4:08 - 5:05 Gonzalez& Woods, Digital Image Processing (2002)
- 5:06 - 5:21
    - https://www.pexels.com/tr-tr/fotograf/adam-ask-insanlar-gevseme-4982528/
    - https://giphy.com/gifs/math-thinking-APqEbxBsVlkWSuFpth
- 5:22 - 5:59 Gonzalez& Woods, Digital Image Processing (2002)

3 - 1 - OpenCV Kütüphanesi

- 0:01 - 0:17
    - https://logos-download.com/10695-java-logo-download.html
    - https://commons.wikimedia.org/wiki/File:Matlab_Logo.png
    - https://commons.wikimedia.org/wiki/File:ISO_C%2B%2B_Logo.svg#/media/File:ISO_C++_Logo.svg
    - https://www.python.org/community/logos/

- 0:18 - 0:38
    - http://simplecv.org/
    - https://opencv.org/resources/media-kit/
    - https://python-pillow.org/#

- 0:55 - 1:06
    - https://commons.wikimedia.org/wiki/File:Google_2015_logo.svg#/media/File:Google_2015_logo.svg
    - https://commons.wikimedia.org/wiki/File:Yahoo!_(2019).svg#/media/File:Yahoo!_(2019).svg
    - https://commons.wikimedia.org/wiki/File:Microsoft_logo_(2012).svg#/media/File:Microsoft_logo_(2012).svg
    - https://commons.wikimedia.org/wiki/File:IBM_logo.svg#/media/File:IBM_logo.svg
    - https://commons.wikimedia.org/wiki/File:Sony_logo.svg#/media/File:Sony_logo.svg
    - https://commons.wikimedia.org/wiki/File:Toyota_carlogo.svg#/media/File:Toyota_carlogo.svg
    - https://en.wikipedia.org/wiki/File:Honda_logo.svg

- 1:07 - 1:20 https://medium.com/ai-techsystems/auto-image-captioning-8efcfa517402

- 1:21 - 1:43
    - https://catarinoconsulting.com.au/articles/2019/6/13/facial-detection-vs-facial-recognition
    - https://www.kdnuggets.com/2018/09/object-detection-image-classification-yolo.html
- 1:44 - 1:58 https://www.youtube.com/watch?v=lryYC6wgVpA

5 - 1 - Renk uzayları

- 0:00 - 0:49 https://youtu.be/LjCzPp-MK48
- 0:50 - 0:59 https://www.pexels.com/tr-tr/fotograf/vucut-boyama-ile-kisi-1209843/
- 1:00 - 1:19 https://youtu.be/--b1F6jUx44
- 1:20 - 0:23 https://commons.wikimedia.org/wiki/File:CMY_ideal_version.svg#/media/File:CMY_ideal_version.svg
- 1:24 - 0:38 https://www.animations.physics.unsw.edu.au/labs/colour-mixing/colour-mixing.html
- 1:39 - 2:09 https://youtu.be/l8_fZPHasdo
- 2:10 - 2:24 https://people.eecs.berkeley.edu/~sequin/CS184/TOPICS/ColorSpaces/spectrum_a.jpg
- 2:25 - 2:50
    - https://commons.wikimedia.org/wiki/File:HSV_color_solid_cone_chroma_gray.png
    - https://commons.wikimedia.org/wiki/File:RGB_color_solid_cube.png
    - https://commons.wikimedia.org/wiki/File:CMYK_color_swatches.svg#/media/File:CMYK_color_swatches.svg
- 2:51 - 3:03 https://ai.stanford.edu/~syyeung/cvweb/tutorial1.html
- 3:05 - 3:15 http://obsessive-coffee-disorder.com/rgb-to-grayscale-using-cimg/ https://en.wikipedia.org/wiki/File:Lenna_(test_image).png#/media/File:Lenna_(test_image).png
- 3:16 - 3:40 https://g.co/kgs/Z4iipi
- 3:41 - 3:49 https://commons.wikimedia.org/wiki/File:CMY_ideal_version.svg#/media/File:CMY_ideal_version.svg
- 3:50 - 4:02 https://youtu.be/9hirYMZ7PQc
- 4:03 - 4:17 https://specsystems.co.za/why-do-printers-use-cmyk/
- 4:45 - 4:50 https://smbw.com.au/2017/04/24/automotive-paint-matching-why-is-it-so-difficult/
- 4:51 - 4:56 https://laptrinhx.com/hsv-color-space-2772855043/

- 5:07 - 5:14 https://www.pexels.com/tr-tr/fotograf/aktif-volkanin-gri-tonlamali-fotografi-689451/
- 5:15 - 5:30 https://codeburst.io/50-shades-of-dark-mode-gray-d3e9907b1194
- 5:31 - 5:53 https://g.co/kgs/Z4iipi
- 5:54 - 6:10 https://commons.wikimedia.org/wiki/File:Animation_of_the_NCS_Colour_System.gif#/media/File:Animation_of_the_NCS_Colour_System.gif

6 -Morfolojik İşlemler

- 0:01 - 0:13 https://www.freepik.com/free-vector/big-data-analysis-isometric-landing-page-banner_9828066.htm#page=1&query=data%20processing&position=0
- 0:14 - 0:30 https://learn.alwaysai.co/object-detection
- 0:31 - 0:44 https://morfoloji.nedir.org/ https://medium.com/@devanshvarshney/object-detection-and-tracking-using-opencv-4f68aa41dd3a
- 0:45 - 1:06
    - https://medium.com/hackernoon/an-introduction-to-morphological-operations-for-digital-image-text-classification-79cb14bab2d7
    - https://homepages.inf.ed.ac.uk/rbf/HIPR2/morops.htm

7 - Görüntü Yumuşatma

- 0:08 - 0:22 https://saksagan.ceng.metu.edu.tr/courses/ceng466/lecture_notes/L1.html
- 0:28 - 0:44 Gonzalez, R. C. Digital Image Processing
- 0:46 - 0:58
    - https://pharmaphorum.com/wp-content/uploads/2017/03/Google-AI-breast-cancer.png
    - https://www.micronetsolutions.in/wp-content/uploads/2017/09/Satellite-Image-Processing.jpg

8 - Gürültü Giderme

- 0:04 - 0:14 https://hearingconservation.org.uk/wp-content/uploads/2019/08/Noise-levels.png

- 0:15 - 0:30 https://en.wikipedia.org/wiki/File:Lenna_(test_image).png#/media/File:Lenna_(test_image).png
- 0:31 - 0:49 https://img1.10bestmedia.com/Images/Photos/211501/p-831-picture3-image_55_660x440_201404232011.jpeg

11 - Görüntünün kenarlarını bulma

- 0:12 - 0:58 https://www.pexels.com/tr-tr/fotograf/bir-grup-insan-gri-dizustu-bilgisayar-izliyor-1595387/

İçerik Atıfları

1 - 1 - Sayısal Görüntü İşleme nedir

- Gonzalez, R. C. Digital Image Processing

1 - 2 - Sayısal Görüntü İşleme nerelerde kullanılır

- Gonzalez, R. C. Digital Image Processing

2 - Görüntü oluşumu

- Gonzalez, R. C. Digital Image Processing
- https://opencv-python-tutroals.readthedocs.io/en/latest/py_tutorials/py_tutorials.html

3 - 1 - OpenCV Kütüphanesi

- https://opencv-python-tutroals.readthedocs.io/en/latest/py_tutorials/py_tutorials.html
- https://opencv.org/

5 - 1 - Renk uzayları

- Gonzalez, R. C. Digital Image Processing
- https://en.wikipedia.org/wiki/Color_space
- https://medium.com/@hafizegungor/opencv-g%C3%B6r%C3%BCnt%C3%BC-i%CC%87%C5%9Fleme-ve-renk-uzay%C4%B1-1a76562ff715
- https://www.ted.com/talks/colm_kelleher_how_we_see_color/transcript?language=tr#t-1101
- https://www.ted.com/talks/colm_kelleher_what_is_color#t-178794

6 -Morfolojik İşlemler

- Gonzalez, R. C. Digital Image Processing
- https://docs.opencv.org/master/d9/d61/tutorial_py_morphological_ops.html
- https://homepages.inf.ed.ac.uk/rbf/HIPR2/morops.htm

7 - Görüntü Yumuşatma

- Gonzalez, R. C. Digital Image Processing
- https://opencv-python-tutroals.readthedocs.io/en/latest/py_tutorials/py_tutorials.html

8 - Gürültü giderme

- Gonzalez, R. C. Digital Image Processing
- https://opencv-python-tutroals.readthedocs.io/en/latest/py_tutorials/py_tutorials.html

9 - Görüntüde karşıtlık ve parlaklık ayarı

- Gonzalez, R. C. Digital Image Processing
- https://docs.opencv.org/3.4/d3/dc1/tutorial_basic_linear_transform.html
- https://docs.opencv.org/3.4/d5/daf/tutorial_py_histogram_equalization.html
- https://en.wikipedia.org/wiki/Contrast_(vision)
- https://en.wikipedia.org/wiki/Brightness

10 - Eşikleme yöntemi

- Gonzalez, R. C. Digital Image Processing
- https://docs.opencv.org/master/d7/d4d/tutorial_py_thresholding.html
- https://pythonprogramming.net/thresholding-image-analysis-python-opencv-tutorial/

11 - Görüntünün kenarlarını bulma

- Gonzalez, R. C. Digital Image Processing
- https://docs.opencv.org/master/da/d22/tutorial_py_canny.html

12 - Görüntüdeki yüzlerin tespiti

- https://docs.opencv.org/3.4/db/d28/tutorial_cascade_classifier.html

13 - Görüntüdeki nesneleri tanıma

- https://pixellib.readthedocs.io/en/latest/
- https://github.com/ayoolaolafenwa/PixelLib/blob/master/docs/index.rst