

Links

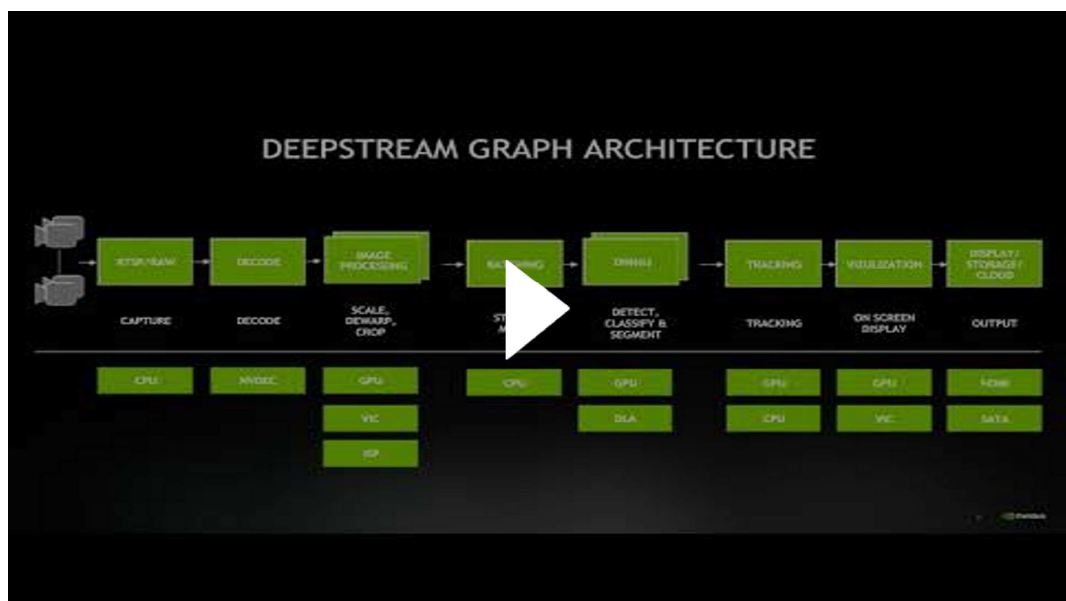
Dienstag, 3. März 2020 12:47

- Getting started with AI

- ☒ <https://developer.nvidia.com/embedded/learn/get-started-jetson-nano-devkit#next>
- ☒ <https://courses.nvidia.com/courses/course-v1:DLI+C-RX-02+V1/about>
- ☐ <https://github.com/dusty-nv/jetson-inference>
- ☐ <https://www.digikey.co.th/en/maker/projects/nvidia-jetson-nano-part-2-image-classification-with-machine-learning/33f1faf4e6d44d3cb6d3340fd42390ea>
- ☐ Labeling: <https://github.com/wkentaro/labelme>
- ☐ Labeling: <http://www.robots.ox.ac.uk/~vgg/software/via/>

- Segmentation:

- [DeepStream SDK — Accelerating Real Time AI Based Video and Image Analytics](#) (vor allem 00:26:00 Qualitätsinspektion)
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- <https://courses.nvidia.com/courses/course-v1:DLI+L-FX-04+V1/about>
 - <https://devblogs.nvidia.com/image-segmentation-using-digits-5/>
 - <https://github.com/nvidia/digits>
 - <https://developer.nvidia.com/digits>
 - NVIDIA. (2019). Automatic Defect Inspection Using the NVIDIA End-to-End Deep Learning Platform, (October).
 - Dataset: <http://resources.mpi-inf.mpg.de/conferences/dagm/2007/prizes.html>
 - https://ngc.nvidia.com/catalog/model-scripts/nvidia:unet_industrial_for_tensorflow
 - <https://github.com/divamgupta/image-segmentation-keras>
 - <https://hackernoon.com/how-to-run-object-detection-and-segmentation-on-a-video-fast-for-free-d3291076af76>
 - <https://github.com/NVIDIA/TensorRT/tree/master/samples/opensource/sampleUffMaskRCNN>

- Nvidia GPU Cloud

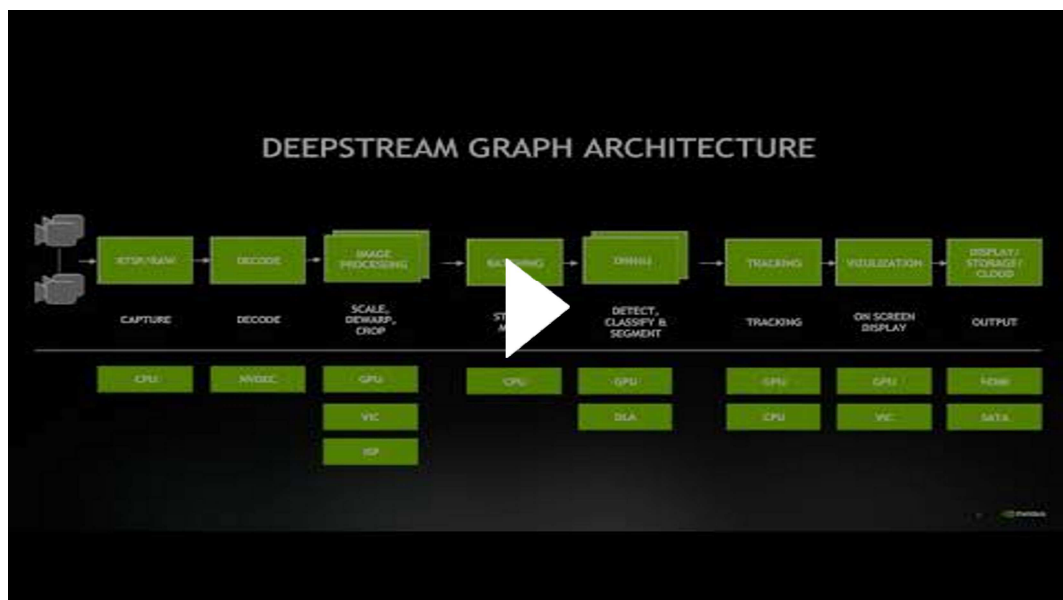
- <https://docs.nvidia.com/ngc/ngc-getting-started-guide/index.html>

- Transfer Learning:

- <https://docs.nvidia.com/metropolis/TLT/tlt-getting-started-guide/index.html>
- <https://devblogs.nvidia.com/accelerating-video-analytics-tlt/>
- <https://towardsdatascience.com/transfer-learning-vs-training-from-scratch-in-keras-a7f92fb97dca>
- <https://medium.com/dataseries/build-and-deploy-accurate-deep-learning-models-for-intelligent-image-and-video-analytics-8ad755213c06>
- <https://github.com/NVIDIA/DIGITS/tree/master/examples/semantic-segmentation>
- <https://github.com/dusty-nv/jetson-inference/blob/master/docs/segnet-pretrained.md>
- <https://github.com/dusty-nv/jetson-inference/blob/master/docs/imagenet-training.md>
- <https://github.com/NirmalElamon/UNet-model-for-Segmentation>
- <https://devblogs.nvidia.com/image-segmentation-using-digits-5/>
- <https://github.com/dusty-nv/jetson-inference/blob/master/docs/segnet-training.md>
- <https://github.com/divamgupta/image-segmentation-keras>
- <https://skorch.readthedocs.io/en/stable/user/tutorials.html>
- <https://www.novatec-gmbh.de/blog/semantic-segmentation-part-3-transfer-learning/>
- <https://engineering.matterport.com/splash-of-color-instance-segmentation-with-mask-r-cnn-and-tensorflow-7c761e238b46>
- ✓ ○ https://github.com/matterport/Mask_RCNN

- DeepStream Tutorial:

- [DeepStream SDK — Accelerating Real Time AI Based Video and Image Analytics](#) (vor allem 00:26:00 Qualitätsinspektion)
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- Getting Started with Deepstream : <https://courses.nvidia.com/courses/course-v1:DLI+C-IV-02+V1/>
- Download Deepstream: <https://docs.nvidia.com/metropolis/deepstream/4.0/dev-guide/index.html>
- <https://info.nvidia.com/deepstream-sdk4-webinar-reg-page.html?ondemandrgt=yes>
- <https://info.nvidia.com/deepstream-to-improve-video-analytics-reg-page.html?ondemandrgt=yes>

- Anomaly Detection:

- https://github.com/NVIDIA-AI-IOT/deepstream_reference_apps/blob/master/anomaly/README.md

<https://towardsdatascience.com/machine-learning-for-anomaly-detection-and-condition-monitoring-d4614e7de770>

<https://towardsdatascience.com/anomaly-detection-with-time-series-forecasting-c34c6d04b24a>

- Klassifikation:

- Tensorflow, YOLO, etc.

- Multi-Camera.

- https://developer.nvidia.com/embedded/community/ecosystem#machine_vis_cam_sens
- <https://devblogs.nvidia.com/multi-camera-large-scale-iva-deepstream-sdk/>
- <https://www.arducam.com/multi-camera-solutions-for-nvidia-jetson-nano/>
- <https://devtalk.nvidia.com/default/topic/1058334/deepstream-sdk/deepstream4-jetson-nano-multiple-webcams-issue/>
- <https://devtalk.nvidia.com/default/topic/1027100>
- https://elinux.org/Jetson/Cameras#Multiple_cameras
- https://elinux.org/Jetson_Nano
- <https://github.com/NVIDIA-AI-IOT/jetcam>
- <https://github.com/opendatacam/opendatacam>